

GUWAHATI SMART CITY LTD.

(Formerly Guwahati Smart City Development Agency Ltd.)

(CIN U45309AS2016SGC017403)

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SPV/GSCL/DEV/55/2017/Pt-1/396

Date: 11/09/2020

ADDENDUM No.13

Responses to Pre-Bid Queries

Tender Title: “System Integrator Design Engineering Supply Installation Erection Testing and Commissioning including O & M for a period of five years for city surveillance and Integrated Command and Control Centre in Guwahati”

Tender No: SPV/GSCL/DEV/55/2017/396

Tender ID: 2020_GSCT_17942_1

Tender Published Date: 12-06-2020

This addendum is being issued for the pre-bid queries raised by the prospective bidders for the above mentioned tender. Bidders are informed that no further consideration of queries will be accepted by GSCL. The intending bidders are requested to take note of the following changes and accordingly shall have to submit the tender.

Statement showing the amendments to the existing clause in tender volumes is published online.

-Sd-
Managing Director
Guwahati Smart City Limited

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1	Videonetics	5.1.4 Video Management System (VMS)	89 of 400	Video management server, on which the VMS is hosted upon, shall run seamlessly in the background to manage connections, access and storage.	Video management server, on Linux operating system on which the VMS is hosted upon, shall run seamlessly in the background to manage connections, access and storage	Refer to Addendum IV
Vol.2	2	Videonetics	5.1.4 Video Management System (VMS)	90 of 400	All the offered VMS and cameras shall have ONVIF compliance.	All the offered VMS and cameras shall have ONVIF compliance. VMS OEM must be ONVIF member with profile S, G and T complied	Refer to Addendum IV
Vol.2	3	Videonetics	5.1.4 Video Management System (VMS)	90 of 400	The VMS shall be enabled for integration with any external Video Analytics Systems	The VMS shall have integrated Video Analytics Systems to optimise server hardware requirement.	Refer to Addendum IV
Vol.2	4	Videonetics	5.1.4 Video Management System (VMS)	91 of 400	All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of high resolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for live and archive viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of high-resolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	Refer to Addendum IV
Vol.2	5	Videonetics	5.1.4 Video Management System (VMS)	92 of 400	The VMS shall support retrieving data from edge storage. Thus, when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage.	The VMS shall support retrieving data from edge storage. Thus, when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage. Therefore the camera and VMS must be ONVIF profile G compliant	Refer to Addendum IV
Vol.2	6	Videonetics	5.1.4 Video Management System (VMS)	93 of 400	VMS/ICCC shall support integration with the ANPR application.	VMS must have integrated ANPR application	Refer to Addendum IV
Vol.2	7	Videonetics	5.1.4 Video Management System (VMS)	93 of 400	VMS shall support integration with other online and offline video analytic applications	VMS must have integrated online and offline video analytic applications	Refer to Addendum IV
Vol.2	8	Videonetics	5.1.4 Video Management System (VMS)	94 of 400	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Speed of the moving object v. Defined area entry/appearance and zone exit/disappearance	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Defined area entry/appearance and zone exit/disappearance	Refer to Addendum IV
Vol.2	9	Videonetics	5.1.4 Video Management System (VMS)	94 of 400	Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection	Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection h. Fire detection i. Smoke detection j. Face Capture k. Event against face with No Mask l. Event against not maintaining minimum guided social distancing m. Crowd detection	Refer to Addendum IV

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	10	Videonetics	5.1.4 Video Management System (VMS)	95 of 400	The user interface shall be via a GUI providing multiple video streams simultaneously on multiple monitors.	The user interface shall be via a GUI providing video streams simultaneously on multiple monitors. Thus VMS must be capable to handle up to 4 monitors with out video wall controller.	The user interface shall be via a GUI providing video streams simultaneously on multiple monitors. Thus VMS must be capable to handle minimum 4 monitors with out video wall controller.
Vol.2	11	Videonetics	5.1.4 Video Management System (VMS)	95 of 400	The system shall allow the viewing of recorded video from any camera on the system at whatever rate the camera was recorded.	The system shall allow the viewing of recorded video from any camera on the system at whatever rate the camera was recorded. It must be possible to view live and recorded view of many cameras simultaneously in a single GUI grid	Better specifications are acceptable
Vol.2	12	Videonetics	5.1.4 Video Management System (VMS)	96 of 400	The GUI shall conform to standard Windows conventions	The GUI shall conform to standard Windows conventions. The client software must be possible to run on windows when server software is on Linux operating system for security issue.	Tender conditions shall prevail
Vol.2	13	Videonetics	5.1.4 Video Management System (VMS)	102 of 400	VMS shall be integrated within a consolidated GUI that would include other command control Center systems as well. All events, activations and alarms that occur with the VMS and its sub systems will interact seamlessly between the command and control center sub systems as required	VMS shall be integrated seamlessly with command control Center systems as well. All events, activations and alarms that occur with the VMS and its sub systems will interact seamlessly between the command and control center sub systems as required	Tender conditions shall prevail
Vol.2	14	Videonetics	5.1.4 Video Management System (VMS)	103 of 400	If an SDK solution / Object model is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / Object model shall be supplied with all required supporting software to allow the integration of the system with new devices and systems.	If an SDK solution / API is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / API shall be supplied with all required supporting software to allow the integration of the system with new devices and systems	If an SDK solution / API / Object Model is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / API shall be supplied with all required supporting software to allow the integration of the system with new devices and systems
Vol.2	15	Videonetics	5.1.4 Video Management System (VMS)	103 of 400	Either the OPC or the SDK or Object Model shall manage the interface between the VMS, GUI and the other City Management systems as required.	VMS must have open API for any integration with any systems.	Tender conditions shall prevail
Vol.2	16	Videonetics	5.1.4 Video Management System (VMS)	103 of 400	The OPC or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vender chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.	The API or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vender chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.	The API or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vender chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.
Vol.2	17	Videonetics	5.1.4 Video Management System (VMS)	103 of 400	If an OPC interface cannot be provided, an alternative solution shall be provided for this data using a standard open protocol and confirmation as to how this shall be implemented shall be provided in the technical proposal return	If an API interface cannot be provided, an alternative solution shall be provided for this data using a standard open protocol and confirmation as to how this shall be implemented shall be provided in the technical proposal return	Tender conditions shall prevail
Vol.2	18	Videonetics	5.1.4 Video Management System (VMS)	103 of 400	The VMS shall enable handling of up to at least 10,000 cameras for future scalability as may be required at additional cost of camera license.	The VMS shall enable handling unlimited cameras for future scalability as may be required at additional cost of camera license	Tender conditions shall prevail
Vol.2	19	Videonetics	5.1.4 Video Management System (VMS)	103 of 400	The VMS OEM must have at least one project experience of minimum 2000 cameras in India. (PO copy required to be submitted).	The VMS OEM must have at least one project experience of minimum 10000 cameras in India in a single project. (PO copy required to be submitted).	The OEM of Video Management System (VMS), Video Analytics (VA) and Camera should have Supplied together a surveillance solution with minimum of 1500 cameras per project in atleast 5 projects in last 5 years in India.
Vol.2	20	Videonetics	5.1.4 Video Management System (VMS)	106 of 400	VA should allow multiple instances of Client Viewer in a single workstation	VA should allow multiple instances of Client Viewer in a single workstation in VMS GUI	Tender condition prevails
Vol.2	21	Videonetics	5.1.4 Video Management System (VMS)	106 of 400	VA should be able to utilize multiple monitors connected to the workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)	VA should be able to utilize multiple monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)	VA should be able to utilize minimum 4 monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)
Vol.2	22	Videonetics	5.1.4 Video Management System (VMS)	106 of 400	VA should support multiple Video Analytics servers running on different machines.	VA should support multiple Video Analytics servers running on different machines. It must be possible to run VMS and analytics in same server for hardware optimisation	Tender conditions shall prevail
Vol.2	23	Videonetics	5.1.4 Video Management System (VMS)		New Clause	The VMS OEM must have development centre in India for last 10 years. Incorporation certificate must be attached.	Tender conditions shall prevail

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Vol.2	24	Videonetics	5.1.4 Video Management System (VMS)		New Clause	The VMS OEM must submit minimum 10 no's of satisfactorily running certificate from any Govt/Railways/Airports/Police department.	Tender conditions shall prevail
Vol.2	25	Videonetics	5.1.4 Video Management System (VMS)		New Clause	The system should allow the user to mark any important section of video as do not delete. This portion will need administration confirmation to delete in future	Tender conditions shall prevail
Vol.2	26	Videonetics	5.1.4 Video Management System (VMS)		New Clause	It should be possible to view the activities on the operator screen from the supervisor/administrator screen, including all the windows open on the operator screen. It should also be possible to record the screen if required	Tender conditions shall prevail
Vol.2	27	Videonetics	5.1.4 Video Management System (VMS)		New Clause	The VMS should support layered maps using standard picture files, GIS maps and online maps such as Google, Bing, Open street maps. It should be possible to drag and drop the cameras on the map for easy navigation	Tender conditions shall prevail
Vol.2	28	Videonetics	5.1.4 Video Management System (VMS)		New Clause	The VMS should show event notification from the cameras on the map itself. The operator should be able to click on the event notification of a particular camera on the map and the VMS should open the event window on the operator screen.	Tender conditions shall prevail
Vol.2	29	Videonetics	5.1.4 Video Management System (VMS)		New Clause	The VMS shall be Codec, Operating systems (Linux and Windows and mix platform) and IP camera agnostic such that it can support devices that are not supplied by the manufacturer/developer of the VMS software and Codec hardware	Tender conditions shall prevail
Vol.2	30	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	126	2. Only those OEM's would be considered who also manufacture the Projection/Optical engine as well apart from the whole cube. Companies claiming to be OEM's but not manufacturing their own Projection/Optical engines shall not be considered	Request you to mention only those OEM's would be considered who manufacture the video wall Cubes	Only those OEM's would be considered who also manufacture the Projection/Optical engine/video wall cubes as well apart from the whole cube. Companies claiming to be OEM's but not manufacturing their own Projection/Optical engines shall not be considered
Vol.2	31	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	127	3. Technology: DLP Based cube on video wall with base stand .The network-based control room solution should consist IP enabled DLP based Video wall cubes. They should be able to show signals over IP without the need of separate decoders. Each of these Video wall cubes should be able to display up to 60 sources per display	Request you to kindly consider showing signals over IP with the need of separate decoders as this will provide Modular scalable architecture with multiple redundancy levels and no complete blackout of video wall for 24 x 7 video wall applications	Better specifications are acceptable
Vol.2	32	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	127	6. Total Resolution: Minimum resolution of video wall 15000 x 6000	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this ; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	33	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	127	14. Screen to Screen Gap: 0.2 mm (or less) @ temperatures between 20~25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm Requesting you to change the screen to screen gap 0.6 or less @temperatures between 20 ~ 25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm
Vol.2	34	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	128	16. Control BD Input terminals: Input: 1 x Digital DVI, Input: 1 x HDMI, Input: 1 x Display Port, Input: 1 x analog Dsub-15,	To meet RFP requirements for Video Wall solution 1x Digital DVI which is sufficient Request you to change Control BD Input Terminals to 1x Digital DVI	1 x Digital DVI or as per OEM architecture
Vol.2	35	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	128	17. Power Supply: Dual Redundant and Hot Swappable Power Supply. This should be built inside the cube for fail safe operation. Power supplies extended or kept outside the cube are not acceptable	Request you to delete it as this functionality is of no use As Power is supplied through UPS which itself is redundant in nature Supplying Cube with dual Redundant power supply will be of no Major use & will increase the Prices .Request you to delete the same	Clause deleted

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Vol.2	36	Barco Electronic Systems Pvt. Ltd.	5.2.2.2 Video-Wall Specifications	128	19. Cube Depth: Total Cube depth including screen module should be less than 500 mm or lower	Request you to change cube depth as per OEM architecture This is only SPECIFIC TO ONE OEM only who can provide this ; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Cube Depth: Total Cube depth including screen module should as per OEM architecture
Vol.2	37	Barco Electronic Systems Pvt. Ltd.	5.2.2.3 Specifications of Video-Wall Controllers:	129	12. Power on Ethernet: Support POE	Request you to delete it as this functionality is of no use POE is not necessarily to meet the functionality of video wall solution	Clause deleted
Vol.2	38	Barco Electronic Systems Pvt. Ltd.	5.2.2.4 Specifications of Display Wall Management Software	130	10. Framework: Video wall cube should be use Python- Django framework for monitoring the system	Request you to change the framework to video wall cube should be use JAVA framework for monitoring system Every OEM has its own software framework to meet the video wall requirements This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Framework: Video wall cube should be use JAVA / Python- Django framework for monitoring the system
Vol.2	39	Barco Electronic Systems Pvt. Ltd.	5.2.2.5 Specifications of Video-Wall Server	131	7. OS: Windows Server 2008/2012/2016 (64 bits)	Request to add Linux in OS also; Linux is much secure and stable than windows with no blue crash issue which is generally issue in windows OS.	7. OS: Windows Server 2008/2012/2016 (64 bits) or Linux based as per OEM architecture
Vol.2	40	Barco Electronic Systems Pvt. Ltd.	5.2.2.5 Specifications of Video-Wall Server	131	9. Others: A. System should also be capable of decoding 50 Full HD streams @30fps and displaying these on the screen simultaneously	As per RFP it is already covered in point no. 3 in video wall specifications: Each of these Video wall cubes should be able to display up to 60 sources per display Request you to delete this point	Video wall cubes should be able to display up to 60 sources per display
Vol.2	41	Barco Electronic Systems Pvt. Ltd.	5.2.2.5 Specifications of Video-Wall Server	131	9. Others: B. System should also be capable to show high resolution graphic of at least 19000 x 6000 resolution on the screen through this controller system	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this ; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	42	Microtek International Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications/ 5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATION S/ 5.1.3.8 Online UPS for Field Locations/	Page 88	6.Output Frequency Range/ Preferably 45 to 55 Hz	Output Frequency Range from 45 to 55 Hz is available in Inverter topology not recommended for On Line UPS Systems. Kindly change it is as "47-53Hz (Synchronized range), 50Hz+/- 0.1hz on battery mode." as per Industry practice & It is better.	Tender conditions shall prevail

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Vol.2	43	Microtek International Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications/ 5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATION S/ 5.1.3.8 Online UPS for Field Locations/	Page 88	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	Kindly change it is Temp as 0 – 45 Deg C, Humidity 20-95% RH as per Industry practice.	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+) 55 Degree C or better Humidity: 10 - 90% (non-condensing) or better as per Guwahati weather conditions
Vol.2	44	Microtek International Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications/ 5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATION S/ 5.1.3.8 Online UPS for Field Locations/	Page 88	17. Bypass /Automatic, Manual Bypass Switch	Kindly change it is as Automatic Only as per Industry practice & being a small rating UPS.	Tender conditions shall prevail
Vol.2	45	Microtek International Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications/ 5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATION S/ 5.1.3.8 Online UPS for Field Locations/	Page 89	20.Remote Monitoring & Maintenance Ports & LED Indication/ LED indicators to be mentioned for Load/Backup/Overload/etc.	Kindly change it as "Remote Monitoring & Maintenance Ports & LED Indication as Remote Monitoring & Maintenance Ports & LCD/LED Indication	Tender conditions shall prevail
Vol.2	46	Microtek International Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications/ 5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATION S/ 5.1.3.8 Online UPS for Field Locations/	Page 89	20./ LED indicators to be mentioned for Load/Backup/Overload/etc.	Kindly change it as "LCD/LED indicators to be mentioned for Load/Backup/Overload/etc."	LED/LCD indicators to be mentioned for Load/Backup/Overload/etc.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	47	Microtek International Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications/ 5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATION S/ 5.1.3.8 Online UPS for Field Locations/	Page 89	21. Overall Protection/ IP 55, Junction Box design should ensure to keep the temperature within suitable operating range for equipment's and should also avoid intentional water splash and dust intake	A integrated IP 55 Outdoor enclosure (JB) consisting of NVR, UPS & Batteries, Switches etc. will be required to install at each location also UPS have own cabinet, in view of above submission request please delete Junction Box clause from UPS specifications	Tender conditions shall prevail
Vol.2	48	Microtek International Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 247	6.Output Frequency Range/ Preferably 45 to 55 Hz	Output Frequency Range from 45 to 55 Hz is available in Inverter topology not recommended for On Line UPS Systems. Kindly change it is as "47-53Hz (Synchronized range), 50Hz+/- 0.1hz on battery mode." as per Industry practice & It is also better.	Tender conditions shall prevail
Vol.2	49	Microtek International Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 248	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	Kindly change it is Temp as 0 – 45 Deg C, Humidity 20-95% RH as per Industry practice.	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+) 55 Degree C or better Humidity: 10 - 90% (non-condensing) or better as per Guwahati weather conditions
Vol.2	50	Microtek International Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 248	17. Bypass /Automatic, Manual Bypass Switch	Kindly change it is as Automatic Only as per Industry practice & being a small rating UPS.	Tender conditions shall prevail
Vol.2	51	Microtek International Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 248	20.Remote Monitoring & Maintenance Ports & LED Indication/ LED indicators to be mentioned for Load/Backup/Overload/etc.	Kindly change it as "Remote Monitoring & Maintenance Ports & LED Indication as Remote Monitoring & Maintenance Ports & LCD/LED Indication	20.Remote Monitoring & Maintenance Ports & LED/LCD Indication. LED/LCD indicators to be mentioned for Load/Backup/Overload/etc.
Vol.2	52	Microtek International Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 248	20./ LED indicators to be mentioned for Load/Backup/Overload/etc.	Kindly change it as "LCD/LED indicators to be mentioned for Load/Backup/Overload/etc."	20. LED/LCD indicators to be mentioned for Load/Backup/Overload/etc.
Vol.2	53	Microtek International Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 248	21. Overall Protection/ IP 55, Junction Box design should ensure to keep the temperature within suitable operating range for equipment's and should also avoid intentional water splash and dust intake	A integrated IP 55 Outdoor enclosure (JB) consisting of NVR, UPS & Batteries, Switches etc. will be required to install at each location also UPS have own cabinet, in view of above submission request please delete Junction Box clause from UPS specifications	Tender conditions shall prevail
Vol.2	54	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	37	The cabinets shall be of robust construction and shall include 3-point security-locking mechanisms to prevent unauthorized access to the field equipment	Query :- Only normal 3 way lock is not sufficient to control the vandalism. Suggestion : Door Lock & Access Control - Bluetooth based Access control system should be provided in junction box. So that authorised person can open the rack through a mobile application. and send the Door Open alarm to NOC via SNMP. 3 point lock. Opening lever/handles should be made of metal.	Tender conditions shall prevail

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Vol.2	55	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	37	Temperature and Humidity Control: All enclosure compartments shall be equipped with a natural convection air circulation system via provision of air circulation filters that shall not require maintenance and shall allow free circulation of air inside the enclosures to prevent overheating as well as the build-up and effects of humidity and heat, without permitting the entry of elements that might endanger system operation.	Suggestion - As addon feature Junction Box must share the real time values of Temperature & Humidity and High Temperature alarm at NOC through SNMP for further data analysis and protections.	Tender conditions shall prevail
Vol.2	56	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	37	SI shall ensure that all the hardware is placed inside the junction boxes that could withstand temperatures prevalent in Guwahati throughout the year.	Query :- To ensure the quality product manufacturer must have required IS, ISO & Quality Standards. Suggestion : Manufacturer Certifications : ISO 9001, ISO14001, OHSAS 18001, TL 9000	Tender conditions shall prevail
Vol.2	57	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.15 Power & UPS - for Field Locations	38	UPS shall serve as a backup for commercially available utility power at the intersections and shall ensure no-break functioning of all field components at each intersection in event of failure of utility power supply	Query :- Typical UPS's are not recommendable for outdoor applications due to low operating temperature range i.e. 0 ~ 40 degC. Also almost all equipment are actually operates on DC voltage like 48V, 24V & 12VDC. Suggestion :- AC-DC backup Power supply with operating temperature range of 0 ~ 60 degC and continuous power output to serve all field components within outdoor Junction box of IP55 rated protection.	Tender conditions shall prevail
Vol.2	58	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.15 Power & UPS - for Field Locations	39	SI shall carry out a study and identify locations to provide UPS backup, depending upon power situation across city, to meet the camera and other field equipment's uptime requirements	Query :- Power supply with battery must be rack mount type to seamlessly fit in a outdoor junction box within 19" mounting. Suggestion :- A Uninterrupted backup Power supply should be 19" rack mount	Tender conditions shall prevail
Vol.2	59	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.15 Power & UPS - for Field Locations	39	SI shall ensure that the UPS is suitably protected against storms, power surges and lightning.	Suggestion - Power Supply must have inbuilt Class C type Surge Protection for protection.	Tender conditions shall prevail
Vol.2	60	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.15 Power & UPS - for Field Locations	39	SI shall provide UPS for efficient heat dissipation without air conditioning. It shall be able to withstand temperatures prevalent in the Guwahati throughout the year.	Suggestion :- Power supply must have operating range of 0 ~ 60 DegC to manage the continuous operating in Junction Box without any air conditioning.	Tender conditions shall prevail
Vol.2	61	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-1)	4.15 Power & UPS - for Field Locations	39	New	Suggestion : Manufacturer Certifications : ISO 9001, ISO14001, OHSAS 18001, TL 9000	Tender conditions shall prevail
Vol.2	62	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-2)	5.2.2.2 Video-Wall Specifications	128	24. LED bezels size: Less than 6 mm	1.As tender requested for Laser DLP videowall , which is seamless without any bezel , Please clarify the point of LED bezel size less than 6 mm? 2. Do you mean bezel like screen trim or border or decoration around the videowall ?	Please consider as deleted
Vol.2	63	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-2)	5.2.2.5 Specifications of Video-Wall Server	131	9.Others: B. System should also be capable to show high resolution graphic of at least 19000 x 6000 resolution on the screen through this controller system.	Specification of videowall server request to be capable of showing resolution graphic of at least 19000x 6000 on screen where as screen resolution is only 15000x 6000 pixels . Please help to re-confirm the resolution capability of sever. We suggest to have videowall server resolution capability same as complete videowall native resolution to have pixel to pixel mapping and ensure better performance .	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	64	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-2)	5.2.1 Functional Requirement – ICC	110	6. The video feed from the surveillance cameras shall be received at the command control Center where a Full HD LED Display video wall shall be installed for viewing relevant feed from the surveillance cameras.	As per technical specs of Videowall under clause 5.2.2.2 - Laser DLP videowall asked, Please help to change Full HD LED display to Laser DLP videowall on page 110 to have clarity for the bidders	The video feed from the surveillance cameras shall be received at the command control Center where a laser video wall shall be installed for viewing relevant feed from the surveillance cameras.

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Vol.2	65	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-2)	12.7 Bill of Material (BOM) Summary-5.0 Integrated Command and Control Centre (ICCC)	398	5.1 Video Wall System	Please help to confirm the qty required for the videowall controller as per specification under clause 5.2.2.3	Controller : 1 no. as per specifications
Vol.2	66	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-2)	5.0 FUNCTIONAL REQUIREMENT S & TECHNICAL SPECIFICATION S	62	12) OEM should have end user web interface to log case with product serial number.	Please change this to OEM should have end user web interface to log case with product serial number/ The OEM should have a technical assistance facility with toll free no. available 24x7 so as to better support customer	OEM to have a technical assistance facility for support in eastern region.
Vol.1	67	Pricewaterhous eCoopers Private Limited	Volume -1, Annexure 6 - Consortium Agreement, S.No. III	93	The Parties shall be jointly and severally responsible and bound towards the Authority for the performance of the works in accordance with the terms and conditions of the BID document, and Contract.	Kindly modify the clause as : Lead Bidder shall be severally responsible and bound towards the Authority for the performance of the work in accordance with the terms and conditions of the BID documents and contract. Each consortium member will only be responsible/ liable for their scope of work as agreed in the agreement	Tender conditions shall prevail.
Vol.2	68	NetApps	Volume 2, 5.3.11 Storage Specification, Clause 3, a	198	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	To meet the performance and Capacity requirement of we recommend to establish minimum memory/cache for the storage system. We request you to change this clause and read it as " a) Storage Solution with NSPoF (No single point of failure) Architecture with minimum 128GB memory across controllers. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface). "	Refer to Addendum XII
Vol.2	69	NetApps	Volume 2, 5.3.11 Storage Specification, Clause 5, h	199	h). Storage should support automated tiering feature	Surveillance Storage to store Video Feeds would primary be configured with a Single Disk Type. A configuration with single disk type may not need Automated Tiering Feature. Also, in place of tiering flash cache may offer performance benefits which may be expected by the having tiering. We request you please modify this clause and read it as " h). Storage should support automated tiering feature or flash/SSD cache "	Refer to Addendum VI
Vol.2	70	NetApps	Volume 2, 5.3.11 Storage Specification, Clause 5, h	199	f). Should be able to scale out without service interruption	Storage system offer capabilities to Scale-Up and Scale-Out to provide capabilities to add more capacity in future. Both the options allows to expand the capacity on the storage. We request you to please allow both scalability options and change this clause to read as " f). Should be able to scale out/scale up without service interruption "	f) Should be able to scale out/scale up without service interruption

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Vol.2	71	NetApps	Volume 2, 5.3.11 Storage Specification, Clause 8, h	200	e) Should provide the functionality of proactive monitoring of Disk drive and Storage system for all possible disk failures	Proactive monitoring of Disk drives can take care of Latent Disk Errors and maintain data integrity due to bad or unreadable blocks on disks. However, it won't be able to take care of Silent Errors. To enhance Data Integrity Storage System support industry standard T10-PI. T10-PI offer integrity check from end-to-end. Hence we request you to change this clause and read it as " e) Should provide the functionality of proactive monitoring of Disk drive and Storage system for all possible disk failures. Storage should also support T10-PI standard for end-to-end data integrity check "	Tender conditions shall prevail
Vol.2	72	NetApps	Volume 2, 5.3.11 Storage Specification, Clause 9, e	201	e) The OEM should have Service Centre in Eastern part of India	NetApp offer Services through authorized partners through out India and hence request you to please incorporate the same in the clause. We request you to change this clause and read it as " e) The OEM should have Service Centre or Authorised Service Provider in Eastern part of India "	e) The OEM should have Service Centre in India
Vol.2	73	NetApps	Volume 2, 5.3.12 Hyper Converged Infrastructure (HCI), Clause 2.1	202	The proposed HCI solution should support scalability up to 32 nodes in a single cluster. Each node should have dedicated redundant hot swap power supplies & cooling fans.	NetApp offer HCI with a Chassis where each chassis consist of 4 Servers. The Chassis offers no-single-point of failure and provides dual power supply. We request you to change this clause and read it as " The proposed HCI solution should support scalability up to 32 nodes in a single cluster. Each node/chassis should have dedicated redundant hot swap power supplies & cooling fans. "	The proposed HCI solution should support scalability up to 32 nodes in a single cluster. Each node/chassis should have redundant hot swap power supplies & cooling fans
Vol.2	74	NetApps	Volume 2, 5.3.12 Hyper Converged Infrastructure (HCI), Clause 2.1, a	202	a). The solution should have minimum adequate number of nodes with each node having latest generation Dual Intel Xeon Scalable 2.2 GHz 24 cores processors. Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules.	We request you to please accommodate on the CPU speed as currently NetApp does not offer 2.2Ghz processors. We request you to please change this clause and read it as " a). The solution should have minimum adequate number of nodes with each node having latest generation Dual Intel Xeon Scalable 2.2 GHz 24 cores 2.0Ghz 20 cores processors. Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules. "	a). The solution should have adequate number of nodes with each node having latest generation Dual processors (minimum 2.0 GHz 24 cores). Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules.
Vol.2	75	NetApps	Volume 2, 5.3.12 Hyper Converged Infrastructure (HCI), Clause 2.4	202	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	As the solution is required with storage capacity to be on All Flash SSD drives, it Cache Capacity may not be required. However, it may be appropriate to put HCI should be configured with minimum 20% or more based on Best Practices by OEM to cater to IO and Control management of HCI cluster. Hence we request you to please change this clause and read it as " Each converged Node shall be provided with appropriate cache capacity 20% additional compute and memory to cater to HCI overheads. to usable storage. "	Tender conditions shall prevail
Vol.2	76	NetApps	Volume 2, 5.3.12 Hyper Converged Infrastructure (HCI), Clause 2.4	202	The HCI should support connecting to external 3rd party Storage (FC,ISCSI,NFS) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI.	NetApp HCI can offer block storage over iSCSI to any future data migration requirement. We request you to please change this clause and read it as " The HCI should support connecting to external 3rd party Storage (FC, / assigns) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI. "	The HCI should support connecting to external 3rd party Storage (FC/ iSCSI/NFS) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI."

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Vol.1	77	Envoys Electronics Pvt. Ltd.	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria, Point 2	Page 34 of 104	<p>A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years.</p> <ul style="list-style-type: none"> In case of consortium: <ul style="list-style-type: none"> Lead Bidder should have minimum 60% of the Average Annual Turnover requirement Each consortium member should have minimum 30% of the Average Annual Turnover requirement All members together should meet 250 Crore Average Annual Turnover requirement 	<p>Since ATCS & ITMS credentials have been asked under TQ, for successful implementation of this project, ATCS and ITMS OEM/Sl are required to be part of consortium. However most of the ATCS/ITMS OEM Companies in India do not have average Annual Turnover of INR 75 Cr Hence for maximum participation of experienced ATCS/ITMS OEM/Sl, average annual Turnover for Consortium partner needs to be changed to minimum INR 15 Cr instead of 30% criteria and all members together to meet average annual turnover requirement of INR 250 Cr</p>	Refer to AddendumVI
Vol.2	78	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.1 Indicative Solutions Architecture - Adaptive Traffic Signal Control (ATSC) System, Figure 3 : Indicative Solutions Architecture - ATSC	Page 207 of 400	<p>The sections below highlight the key elements proposed in the smart solution and overall the process flow and high-level functionality of each hardware and software elements of the solution. The high-level schematic diagram of the proposed solution architecture for the ATSC project is presented below. - Figure 3: Indicative ATSC Solution Architecture with Master Controller & Slave Controller</p>	<p>Though Master/Slave Traffic Controllers have been shown in ATSC Solution Architecture(Figure 3) and "Composite Signal Control Strategy(CoSiCoSt) Application, already proven in Indian environment" is asked for under Functional requirements of ATSC(Clause 5.4.1.2/J, pg 208), However Controller & ATSC Software specification /functional requirement includes many features which are not part of proven Composite Signal Control Strategy(CoSiCoSt) application and favours some of the imported/overseas technology which has been proved "unfit" time and again in Indian environment with no lane discipline. CDAC under Ministry of Electronics & Information Technology(MeitY) of Govt of India has already developed a patented ATSC Controller(WiTraC) and ATCS Control Room Application(CoSiCoSt) which meets heterogenous Traffic requirements of Indian sub-continent and this CDAC technology has been handed over to more than 10 Technology(ToT) Partners. Till date, over 1000 installations have been done with this technology throughout India. Bhubaneswar was the first Smart City to adopt CDAC technology wayback in 2016-17 for their 100% Solar based ATCS requirements. This was followed up by Patna, Jammu, Surat, Srinagar, Ahmedabad Municipal Corporation/Smart City. Considering this and Govt policy of promoting Make In India/Local is Vocal, we request you not to favour & promote imported/overseas technology by including few unnecessary features</p>	Picture is only stated as symbolic representation, bidder can propose the solution
Vol.2	79	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC), Point Q	Page 209 of 400	<p>Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any thirdparty traffic controller that is UG405 or NTCIP or any other standard communication protocol compliant.</p>	<p>We presume that "any other standard communication protocol" includes Composite Signal Control Strategy application protocol, as mentioned under clause 5.4.1.2/J , page 208. Please confirm</p>	Clause to be read as ATSC shall use UG405 or NTCIP or OCIT or any standard communication protocol. It should seamlessly integration with any third-party traffic hardware that is UG405 or NTCIP or OCIT or any other standard communication protocol compliant.
Vol.2	80	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 9	Page 211 of 400	<p>Offset correction shall be carried out to minimize number of stops and delays along the corridor for the priority route. Offset deviation measured using distance and speed between successive intersections shall be corrected within 5 cycles at a tolerance of +/- 5 seconds maximum.</p>	<p>Offset correction frequency and its tolerance is not a STANDARD and varies from ATSC application to application, like Composite Signal Control Strategy Application. Hence these details of 5 cycles & +/-5 seconds, specific to a particular application/OEM, needs to be removed.</p>	Offset correction shall be carried out to minimize number of stops and delays along the corridor for the priority route. Offset deviation is calculated using distance and speed between successive intersections

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Vol.2	81	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 36	Page 213 of 400	Shall generate alerts to the operator that trigger on customizable conditions in the network (starting with simple drops in flow, up to total queue lengths along emission sensitive roads surpassing a definable threshold)	Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), uses stopline vehicle detection and works on Vehicle GAP TIME for its optimisation algorithm. Hence drop in flow/queue length is not a threshold requirement for Composite Signal Control Strategy application hence needs to be removed.	Tender conditions shall prevail
Vol.2	82	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 38	Page 213 of 400	Shall provide calculated traffic flows and identify, queues and delays to Urban Control and Adaptive Signal Control Systems, allowing for proactive Traffic Management and Control	Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), uses stopline vehicle detection and works on Vehicle GAP TIME for its optimisation algorithm. Hence Traffic Flows, Queues & delays etc is not a requirement for Composite Signal Control Strategy application hence needs to be removed.	Tender conditions shall prevail
Vol.2	83	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 42	Page 213 of 400	The ATSC system shall be able to provide Ambulance /VIP / Fire brigade vehicles the priority in crossing the junction.	As per Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), priority to Ambulance/VIP/Fire Brigade vehicles will be given through Hurry Call options, from Police Panel or Control Room	Tender conditions shall prevail
Vol.2	84	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 46	Page 214 of 400	For emergency management, ATSC should be able to accept commands from workstations deployed in select areas of route-preemption or emergency route management	As per Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), traffic monitoring and management happens through the assigned workstations deployed at Control Room only. Deployment of workstations in select area needs to be removed	The ATSC system should be capable of route pre-emption capability without any additional hardware. It shall be capable of being applied to a single junction or to a series of junctions in a corridor or sub area to allow green wave Pre-emption or special arterial traffic control strategies that might be required. Route Pre-emption shall be capable of being requested from any of the operator's workstation at ICCB by authorized operators
Vol.2	85	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 47	Page 214 of 400	It shall also be possible to integrate the RFID readerbased Transit Signal Priority System in the ATSC system in near future for identifying the buses & other vehicles of significance near the junction to providing priorities	Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), is developed by CDAC and handed over to more than 10 technology partners, will require RFID interface to be developed for futuristic requirements	Tender conditions shall prevail
Vol.2	86	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 48	Page 214 of 400	The system shall be able to determine the priority order of each vehicle when there are multiple priority vehicles simultaneously present at a given junction, and accordingly determine which get the priority first.	As per Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), Priority of multiple vehicles will be on first-come-first-serve basis and the Priority will be depending on the type of vehicle (eg. Ambulance or BRTS Bus). Compensation shall be through multiple cycles.	Tender conditions shall prevail
Vol.2	87	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 50	Page 215 of 400	The system shall also compensate the other stages for the lost green after the passage of the priority vehicle in order to minimize congestion	As per Composite Signal Control Strategy application, already proven in Indian environment(Ref: Clause 5.4.1.2/J, Pg 208), Compensation shall be through multiple cycles. Requirement for Compensation of other stages needs to be removed	Tender conditions shall prevail

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Vol.2	88	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.3 ATSC Software Application, Point 51	Page 215 of 400	ATSC system shall be capable to integrate with a smart public transport priority respecting the delays for all road users. Emergency Vehicle Priority Emergency Vehicle Priority Provision to make way for emergency vehicles like fire, police and ambulances during emergencies.	Shall need details of Public Transport Priority System and its API for integration with Composite Signal Control Strategy application.	Tender conditions shall prevail
Vol.2	89	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 5(d)	Page 221 of 400	32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB.	All these requirements are specific to a particular Make/Model/deliverables of a Manufacturer and hence needs to be changed to more generic requirement of proven technology(Composite Signal Control Strategy) in Indian environment - 512KB flash memory and 128KB RAM. 32GB through an external SD Card/USB can be made optional as it doesn't serve any purpose for Traffic Controller operation	Tender conditions shall prevail
Vol.2	90	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 6(g)	Page 221 of 400	Controller clock frequency of min of 100MHz.	Proven technology(Composite Signal Control Strategy) in Indian environment uses 40MHz as its clock frequency hence this vendor specific requirement of 100MHz clock frequency needs to be changed to 40MHz or better	Tender conditions shall prevail
Vol.2	91	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 10	Page 222 of 400	The Traffic Signal Controller equipment should be 64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.	Contradicts with point 2/b & 2/d on page 221 where it mentions Traffic Controller equipment to be 32 bit micro-controller. 32 bit micro-controller based TrafficControllers have been proven in Indian environment along with Copposite Signal Control Strategy Application	The Traffic Signal Controller equipment should be 32/64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.
Vol.2	92	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 15	Page 222 of 400	Standards compliance: EN 50556/AS/NZS ISO 9001:1994 for design & servicing. AND EN 12675/IEC 60068 for functional safety, EN 55024:2010 & AS/NZS 60950/BS EN 61000-3-3 or equivalent for voltage fluctuations, or equivalent	Composite Signal Control Startegy Application based Traffic Controllers, proven in Indian environment have been certified for IEC-60068 by ERTL. Other standard requirements are specific to a particular vendor and shall restrict the Indian OEM participation thereby the Make India & Local is Vocal initiative of Govt of India hence needs to be removed	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,

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Vol.2	93	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 16	Page 222 of 400	Number of signal groups: minimum 24 or as per site requirement	Minimum group criteria to be changed to 10 as all big Junctions in metro cities of India are working successfully with Controllers having capability of 64 Signal Head Outputs and configuration option from 32 to 48 Signal Head Outputs, as per site requirements. Line based Traffic Controllers are more flexible as they provide option to configure any line to Vehucular or Pedestrain output, without any wastage	Tender conditions shall prevail
Vol.2	94	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 17	Page 222 of 400	Number of signal head outputs: minimum 72 or as required	To be changed to: Signal Head Output capacity - 64 with option to configure 32 to 48 Signal Head Outputs, as per site requirements	Number of signal head outputs: minimum 36 or higher as per site requirement
Vol.2	95	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.4 Traffic Signal Controller, Technical Specifications of Traffic Controller, Point 27	Page 223 of 400	Temperature range: 0 – 70 deg. C	Controllers for proven technology(Composite Signal Control Strategy) in Indian environment have Operating temperature range of 0 to 55° C and is adeqaute for Guwahati weather conditions hence temperature range needs to be changed to 0 to 55° C	27. Temperature range: 0 – 60 deg. C
Vol.2	96	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.6 Traffic Light Aspects, LED aspects, Point 11	Page 224 of 400	Power supply shall be preferably 230 Vac +/- 10% and frequency50+/-5Hz	Under Clause 5.4.1.6/4, Operating voltage is mentioned as 12VDC/24VDC or 230VAC, 50Hz. Thus bidder has the option to use AC or DC Lamps as per his Controller design. Composite Signal Control Strategy application based Controllers, proven in Indian environment, uses 24VDC Lamps Hence this option of 12VDC/24VDC Lamp input needs to be retained	amendment in traffic light 1. It shall have less power consumption for all colors, preferably maximum power should not exceed 10 watts for each color. 4. All units operate at voltage of - 12 / 24 volts DC.- Point deleted 5. 5.LED shall be high flux narrow beam type with clear lens & Luminance uniformity 11. Power supply shall be preferably 12/ 24 V DC / 40 VAC/230 Vac +/- 10% and frequency50+/-5Hz 13.Convex Tinted Lens, Fuse and Transients shall be available- Point deleted
Vol.2	97	Envoys Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.6 Traffic Light Aspects, Point 9	Page 224 of 400	Red, Green – Pedestrian (300 mm diameter):	Kindly confirm which one is to be considered out of these two descriptions for pedestrian Aspect	Tender conditions shall prevail

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Vol.2	98	Envoy's Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.6 Traffic Light Aspects, Point 13	Page 224 of 400	Fuse and Transients shall be available	Advanced LED Drivers now a days has got built in short circuit and overload protection where fuse is not required. Request you to kindly remove fuse requirement.	Tender conditions shall prevail
Vol.2	99	Envoy's Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 5.4.1.6 Traffic Light Aspects, Point 15	Page 224 of 400	Total Harmonic Distortion:<20%	Total Harmonic Distortion(THD) is aphenomenon applicable to AC input voltages only. Since Lamp input has been specified as 230VA, 50 Hz OR 12VDC/24VDC under Clause 5.4.1.6/4, It will not be applicable for LED Aspects option with DC(12/24V) inputs	Tender conditions shall prevail
Vol.2	100	Envoy's Electronics Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications, 12.7 Bill of Material (BOM) Summary, 1.2. Adaptive Traffic Signal Control System (Signalization), Point 1.2.2	Page 395 of 400	Countdown timer - 226 Nos.	Though Count Down Timer quantity is mentioned as 226 under Bill of Materials, No Specification & Functional requirement of Count Down Timer is available in RFP.	Item mentioned in BOM stands deleted
Vol.1	101	Schneider Electric Software Pvt. Ltd.	RFP Vol-1/2.29. Eligible Goods and Services, and OEM Criteria/i	28	The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	Current Requirement for GSCL requires a platform as a framework for sensing, for communication, for integration with OT technology which is made up of multiplicity of diverse use applications. The city needs a systems of systems platform capable of managing different technologies and devices, and enable different application services for different services in the city. A platform which is future ready and of industrial strength, scalable, not only able to scale to accommodate and process more data but of the same type, but also from variety of sources thus converging the IT and OT world. ICCC is a level 4 consolidation and monitoring mechanism and not a IT dashboard of surveillance monitoring. ICCC should cater to needs of the current as well as future integrations basis the scalability of smart city solutions and tools which also include physical infrastructure like water, energy, sewerage etc. Camera is specific to Video Management System and the current condition under ICCC should be moved or changed to Video Management System OEM. There are very few implementations of ICCC in India which has IT/OT convergence. OT plays a major role in any city and ICCC PAN CITY. Hence we have to buy a ICCC Platform with capability to control, command and monitor all the IT and OT assets.	Tender conditions shall prevail.

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Vol.1	102	Schneider Electric Software Pvt. Ltd.	RFP Vol-1/3.6.1 Technical Bid Criteria & Evaluation/B4.2/Integrated Command and Control Centre Solution (OEM Criteria)	41	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	The ICCC platform is being deployed for whole of the city and not restricted to Surveillance & ITMS. ICCC needs to have future integrations with other point solutions as well including physical technologies like water, electricity, energy & sewerage. This should also be done at a level where their is bi-directional control for manual override during emergency situation with the control and command functionality in the ICCC platform. ICCC platform cannot be a mere dashboarding tool. Water is one of the major concern for Guwahati Smart City and it needs to be monitored and controlled from the ICCC. Water, electricity, energy & sewerage is one of the most critical utilities for Guwahati Smart City, which has been completely ignored in this tender and as a functionality for an ICCC. Need to bring focus back on utilities and physical infrastructure rather than just focusing on IT part of the pan city implementation.	Tender conditions shall prevail.
Vol.1	103	Schneider Electric Software Pvt. Ltd.	RFP Vol-1/3.6.1 Technical Bid Criteria & Evaluation/C2/Proof of concept(POC)	44	1. Need to demonstrate the ICCC Control Room setup with visualization (2*2 Screen – 5 Marks) 2. Integration with Security & Surveillance System (Surveillance Cameras, SVD, RLVD & ANPR – 5 Marks)	Success of ICCC pan city projects are based on the ability of the MSI to integrate all the point solutions with the central command and control centre platform. Without the integration, the project fails to move from implementation to operations phase. Hence, it is important to understand the capability of the platform proposed by MSI to seamlessly integrate all the city ICT interventions. Thus, we need to include stringent criteria in POC to check the ability of the MSI to integrate. In this tender lot of weightage has been given to CV's which should be balanced along with this clause and POC for integration	Tender conditions shall prevail.
Vol.2	104	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 3	112	It is envisaged that the city will implement multiple Smart City usecases like Smart Traffic Management, Smart Parking, Smart Lighting, Energy Metering, Water Metering, CCTV, Public Transport, Public Wi-Fi and other integrations as per defined scope	The ICCC platform is being deployed for whole of the city and not restricted to Surveillance & ITMS. ICCC needs to have future integrations with other point solutions as well including physical technologies like water, electricity, energy & sewerage. This should also be done at a level where their is bi-directional control for manual override during emergency situation with the control and command functionality in the ICCC platform. ICCC platform cannot be a mere dashboarding tool. Water is one of the major concern for Guwahati Smart City and it needs to be monitored and controlled from the ICCC. Water, electricity, energy & sewerage is one of the most critical utilities for Guwahati Smart City, which has been completely ignored in this tender and as a functionality for an ICCC. Need to bring focus back on utilities and physical infrastructure rather than just focusing on IT part of the pan city implementation.	Tender conditions shall prevail
Vol.2	105	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 10	112	Platform must provide multiple options to visualize geo-spatial, operational and metrics data	Why is the ICCC Platform being treated as a platform for GIS functionality only? ICCC Platform has broader functionality than as mentioned in the RFP. GIS is a small component and since the platform has already asked for GIS integration why do we want to replicate the functionality of GIS in ICCC platform? Rather we need ICCC platform with visualization functionality to make it more interactive and realtime.	Tender conditions shall prevail
Vol.2	106	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 18	113	Platform must provide ability to support different geo spatial formats from commercial and open geospatial consortium standards like WMS, KML, SHP, City GML.	Why is the ICCC Platform being treated as a platform for GIS functionality only? ICCC Platform has broader functionality than as mentioned in the RFP. GIS is a small component and since the platform has already asked for GIS integration why do we want to replicate the functionality of GIS in ICCC platform? Rather we need ICCC platform with visualization functionality to make it more interactive and realtime.	Tender conditions shall prevail

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Vol.2	107	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 22	113	Analytics: provides time-shifted or offline analytics on the archived data.	ICCC platform will be dealing with data form operationnal technology. This is significant in case of Guwahati City. Considerations & provision has to be made for analysis and calculation of timeseries data coming from these diverse operational technogloies which now has not been considered	Tender conditions shall prevail
Vol.2	108	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 28	113	Platform OEM shall have published the normalized APIs in their website for the listed domains (Parking, Outdoor Lighting, Traffic, Environment, Urban mobility etc.) to allow sensor vendors and app developers to develop their connectors / adaptors to the platform.	How is this functionality relevent to a ICCC platform where we do not know what are the services provided by the Point solutions which are being deployed by different OEM's. Every OEM has their onw methodology and functionality. This can be customized but cannot be the responsibiliy of ICCC platform. Platform needs to be agnostic of technologies	Platform OEM shall Enable City and/or its partners to write software adaptors based on the API(s) provided by device vendors and have the ability to control, monitor and collect the data from these street devices and publish the normalized APIs for further modification.
Vol.2	109	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 30	114	Facility to securely access the platform remotely for platform updates /upgrades and maintenance for the given duration.	This needs to be changed to include the changes for edge devices as well. Currently this is only about the platform s IOE the sw can be deployed on edge as well. This needs to be changed to include to consider the entire deployment	Tender conditions shall prevail
Vol.2	110	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 32	114	Platform Functionality	Current platform functionality is very limited for a ICCC platform. ICCC platform has broader role and functionality. For a smart city these functinliaites are not sufficient and new functionalities needs to be added. We need to add functionality in following areas. 1.Unified Central Platform 2.Unified Control 3.Unified Command 4.Unified Operations 5.Unified Decision Support	Tender conditions shall prevail
Vol.2	111	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/S.No 44	115	Platform should integrate with IT, OT, IoT, Video Analytics, VMS devices and applications	ICCC platform is not limited to Video analytics or VMS. Why the functionliaty of VMS is being expected from the ICCC. Platform should cater to a broaded functionality and integration capability of city. This is restrictriv and is pointing towards ICCC being mearly a VMS Platform. Please include borader functionality of ICCC for integration	Platform should enable integration with IT, OT, IoT, Video Analytics, VMS devices and other Smart City Applications to be deployed in future.
Vol.2	112	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	122	Unified Communication Platform for Smart ICCC Operation	This is a separate tool/functionality. This is proprietary and needs be included as external integration with communicaiton tool.	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.

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Vol.2	113	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	122	ICCC operator communication tool	This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	114	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	122	Dispatch System for Command and Control Operations	This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	115	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	124	IP-based dispatch console	This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	116	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	124	Data Center Security & Visibility	This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	117	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	124	Deployment Automation	This is a separate tool/functionality. This is proprietary and needs be included as external integration with deployment tool	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	118	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	124	Workload Automation Tool	This is a separate tool/functionality. This is proprietary and needs be included as external integration with workload automation tool	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.

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Vol.2	119	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	124	Application Performance Monitoring	This is a separate tool/functionality. This is proprietary and needs be included as external integration with applicaton performance monitoring tool	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	120	Schneider Electric Software Pvt. Ltd.	RFP Vol-2/5.2.2 Technical Specification – ICC/5.2.2.1 Integrated Command Control Platform/	Addition	Addition	Human Machine Interface, allows you to interact with a device & Point solution at core level. HMI is an important functionality allowing end user to interact with the city and city level device and sensors on realtime basis. Request you to please add this functionality to ICC Platform.	Tender conditions shall prevail
Vol.1	121	Dell International Services Ltd Private Limited	Vol1, 2.29, Eligible Goods and Services, and OEM Criteria	28	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	Please modify as "e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."	Refer to AddendumVI
Vol.1	122	Dell International Services Ltd Private Limited	Vol1, 7.10, Manufacturers'/Producers' Authorization Form	82	The support for such offered product/s will be available for minimum of 10 years from the date of bidding	Please modify as "The support for such offered product/s will be available for the period of 60 months from the date of Go-live"	Refer to addendum vi
Vol.2	123	Dell International Services Ltd Private Limited	Dell 5.2.3 Workstation with Joystick Controller	132	Processor : Latest generation 64-bit x86 Dual core CPU with 3.33GHz or more	Latest generation 64-bit x86 octa core CPU with 5.00 GHz or more supported clock speed .	Tender conditions shall prevail
Vol.2	124	Dell International Services Ltd Private Limited	Dell 5.2.3 Workstation with Joystick Controller	132	Memory : Minimum 8 GB Memory	Minimum 16 GB Memory DDR4	Tender conditions shall prevail
Vol.2	125	Dell International Services Ltd Private Limited	Dell 5.2.3 Workstation with Joystick Controller	132	Graphics card : Graphics card with 2 GB video memory (non shared)	Professional series Graphics card with 4 GB memory (NVIDIA Quadro / AMD Radeon)	Tender conditions shall prevail
Vol.2	126	Dell International Services Ltd Private Limited	Dell 5.2.3 Workstation with Joystick Controller	132	Monitor: 22" TFT LCD monitor, Minimum 1920 x1080 resolution, 5 ms or better response time, TCO 03 (or higher) certified	Suggested for Minimum 23.8" FHD monitor with TCO 8 or higher certified	Tender conditions shall prevail
Vol.2	127	Dell International Services Ltd Private Limited	Dell 5.2.4 Desktop PC for ICC	134	Operating system + SW :MS Office 2016	Please confirm the required MS Office version / SKU . Suggested for pre-loaded MS Office 2019 professional	Tender conditions shall prevail
Vol.2	128	Dell International Services Ltd Private Limited	Dell 5.3.3 Data Center Out of Band Switches	169	6. Should support minimum 8MB buffer.	Please modify clause as" 6. Should support minimum 4MB buffer." For DELL EMC to participate	Refer to Addenum X
Vol.2	129	Dell International Services Ltd Private Limited	Dell 5.3.9 SIEM Solution, point 22	192	Bidder should propose separate hardware for SIEM solution.	Please confirm if purpose built Appliance with guranteed performance is required or software based solution is OK ?	SIEM solution should be dedicated appliance based or software based. In case of software based solution Bidders should include separate dedicated hardware in their proposed SIEM solution meeting the warranty requirement. Details of which should be mentioned in the bill of material.
Vol.2	130	Dell International Services Ltd Private Limited	Dell 5.3.9 SIEM Solution, point 3	190	SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	In case logs and Packet solution will be from different OEM, it will lead to challenge of integration and delay in detecting of nation state attacks? Please confirm if customer is OK with this.	SIEM for Logs and deep packet inspection can be from same or different OEM.

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Vol.2	131	Dell International Services Ltd Private Limited	Vol 2, 5.3.11 Storage Specifications, clause 5 (b)	199	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels (5, 6/DP or equivalent)	see Addendum VI
Vol.2	132	Dell International Services Ltd Private Limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 2.4	202	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with appropriate cache capacity with redundancy and additional to usable storage.	Tender conditions shall prevail
Vol.2	133	Dell International Services Ltd Private Limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 6.1	203	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz Hyper-V & VMware.	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware.	Refer to addendum VI
Vol.2	134	Dell International Services Ltd Private Limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 6.7	204	The solution shall support provisioning across multihypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	The solution shall support provisioning hypervisor (e.g.: VMware ESXi 6.5 or higher/ Microsoft Hyper-V 2016 or higher/ System Center 2016 or higher) virtual and public cloud environments.	Tender Clause prevails
Vol.2	135	Dell International Services Ltd Private Limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 6.8	204	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs. Shall have the capability to install on multiple Hypervisor's like VMware & Hyper-V.	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs.	Tender condition prevails
Vol.2	136	Dell International Services Ltd Private Limited	VOL 2 / 5.3.5 / Intranet Firewall with IPS / Clause no 1.3	180	Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 40 Million Concurrent firewall connections on device from day 1	Tender conditions shall prevail
Vol.2	137	Dell International Services Ltd Private Limited	VOL 2 / 5.3.5 / Intranet Firewall with IPS / Clause no 1.6	180	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 15 Gbps.	Clause deleted
Vol.2	138	Dell International Services Ltd Private Limited	VOL 2 / 5.3.5 / Intranet Firewall with IPS / Clause no 1.7	180	No limitation for client connecting using SSL VPN	Please delete this clause	Refer to Addendum XII
Vol.2	139	Dell International Services Ltd Private Limited	VOL 2 / 5.3.5 / Intranet Firewall with IPS / Clause no 2.2	181	The appliance must not have reported a backdoor vulnerability in OS in past five years	Please delete this clause	Clause deleted
Vol.2	140	Dell International Services Ltd Private Limited	VOL 2 / 5.3.5 / Intranet Firewall with IPS / Clause no 2.7	181	i) Firewall should have minimum 10 virtual contexts/VDOM	Please delete this clause	Tender conditions shall prevail
Vol.2	141	Dell International Services Ltd Private Limited	VOL 2 / 5.3.5 / Intranet Firewall with IPS / Clause no 3.5	182	IPS must deliver more than 10000 fingerprint situations for detecting exploit attempts against known vulnerabilities in protocol specific TCP/UDP port number	IPS must deliver more than 10000 fingerprint/20K DPI signatures situations for detecting exploit attempts against known vulnerabilities in protocol specific TCP/UDP port number	Clause deleted
Vol.2	142	Dell International Services Ltd Private Limited	VOL 2 / 5.3.6 / Next Generation Firewall / Clause no 8	184	Firewall should support at least 1000 VLANs	Firewall should support at least 500 VLANs	Refer to Addendum VI
Vol.2	143	Dell International Services Ltd Private Limited	VOL 2 / 5.3.6 / Next Generation Firewall / Clause no 19	185	Should support Application Visibility and Control (AVC) supports more than 10000 application-layer and riskbased controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Should support Application Visibility and Control (AVC) supports more than 3500 application-layer and riskbased controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Clause deleted

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Vol.2	144	Dell International Services Ltd Private Limited	VOL 2 / 5.3.6 / Next Generation Firewall / Clause no 23	185	The solution must provide a full-featured NBA capability to detect threats emerging from inside the network (i.e. ones that have not passed through a perimeter IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines.	Please delete this clause	Clause deleted
Vol.2	145	Dell International Services Ltd Private Limited	VOL 2 / 5.3.6 / Next Generation Firewall / Clause no 24	185	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	Please delete this clause	Clause deleted
Vol.2	146	Dell International Services Ltd Private Limited	VOL 2 / 5.3.6 / Next Generation Firewall / Clause no 25	185	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. On -premise Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and mini-mum of 2 x 10 ports with populated transceivers as per design requirement.	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. The appliance based Sandbox should support 2200 web files/hour, 300-400 dynamic files/hour and 1 RU. The appliance Sandbox should support API.	Clause deleted
Vol.2	147	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-5	83	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	4 x 10/100/1000 (PoE+) + 2 x 10/100/1000 port and 2xGigabit SFP or combo, Switch should support MSA Compliant Rugged SFPs	Refer to Addendum VI (SI No 16)
Vol.2	148	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-10	83	b) Static Routing Protocols	Remove this Clause	Refer to Addendum VI (SI No 16)
Vol.2	149	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-12	83	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BootP/DCHP snooping, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP)/FTP support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS).	PI Refer to addendum VI (SIno 16)
Vol.2	150	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-13	83-84	IEEE 802.3bt.	Plese remove this clause	Refer to Addendum VII (SI No 16)
Vol.2	151	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-15	84	Flash Memory 1 GB or Better	Flash Memory 16 MB or Better	Refer to Addendum VII (SI No 16)
Vol.2	152	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-17	84	Power Requirement- Internal power supply	Power Requirement- Redundant power supply	Refer to Addendum VII (SI No 16)
Vol.2	153	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-18	84	48V to 57V (Able to run on both AC or DC supply)	48V to 57V (Able to run on AC/DC supply)	Refer to Addendum VII (SI No 16)

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Vol.2	154	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-22	84	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001.	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent	Refer to Addendum VII (SI No 16)
Vol.2	155	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.6, S.No-27	84	Port Security for binding MAC address of IP Cameras to an interface.	Port Security for binding IP/MAC address of IP Cameras to an interface.	Refer to Addendum VII (SI No 16)
Vol.2	156	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-5	85	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+) + 4x1G Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Refer to Addendum VII (SI No 18)
Vol.2	157	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-10	85	b) Static Routing Protocols c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1. d) Layer 3 multicast routing from day 1	Kindly remove this clause	Refer to Addendum XII
Vol.2	158	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-12	86	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BootP/DCHP snooping, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP)/FTP support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS).	Tender Conditions shall prevail
Vol.2	159	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-15	86	Flash Memory 1 GB or Better	Flash Memory 16 MB or Better	Tender conditions shall prevail
Vol.2	160	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-17	86	Power Requirement- Internal power supply	Power Requirement- Redundant power supply	Refer to Addendum VII
Vol.2	161	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-18	86	48V to 57V (Able to run on both AC or DC supply)	48V to 57V (Able to run on AC/DC supply)	Tender condition prevails
Vol.2	162	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-22	87	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001.	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent	Tender condition prevails
Vol.2	163	Dell International Services Ltd Private Limited	Vol.02,Section-5.1.3.7, S.No-27	87	Port Security for binding MAC address of IP Cameras to an interface.	Port Security for binding IP/MAC address of IP Cameras to an interface.	Tender conditions shall prevail
Vol.2	164	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	296	Should have a minimum capacity of 2Tbps	Should have a minimum capacity of 2Tbps full duplex	Tender condition prevails
Vol.2	165	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	296	Should support up to 16K MAC addresses.	Should support up to 500K MAC addresses.	Tender Clause prevails

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Vol.2	166	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	296	Shall support - minimum 256K IPv4 and IPv6 routes - minimum 4K multicast routes	Shall support minimum IPv4 FIB- 2M , IPv6 FIB - 1M , minimum 64K multicast FIB	Tender Clause Prevails
Vol.2	167	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	296	Should have minimum 32GB RAM	Request to remove this clause	Tender Clause prevails
Vol.2	168	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	297	Advanced Encryption Standard (AES)/3DES	Request to remove this clause	Tender conditions shall prevail
Vol.2	169	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	298	Shall support operating temperature range of 0°C to +40°C	Shall support operating temperature range of 5°C to +40°C	Refer to Addendum VI (SI No 128)
Vol.2	170	Dell International Services Ltd Private Limited	Volume 2, Section 5.5.3.1 Core Router	298	FIPS-140-2	Plz replace "FIPS-140-2" with EN 55024, CISPR 24, EN 61000-4-5	Refer to Addendum XII
Vol.2	171	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt1	299	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards. The offered equipment shall have 400G OTN crossconnect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements	1. This particular DWDM requirement does not require ODUFlex based solution. We recommend to relax this specification.	Refer to Addendum VII(SI 17)
Vol.2	172	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt2	299	The DWDM/OTN equipment shall be compact & modular supporting redundancy of control card or cross- connect fabric, timing/synchronization subsystem, and control processor subsystem.	Blade based OTN cross connects providing similar OTN capacity with redundant controller must also be allowed.	Refer to Addendum VII (SI 17)
Vol.2	173	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt14	300	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	We recommend to include REST based North Bound Interface in this clause.	Refer to Addendum VII (SI 17)
Vol.2	174	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt17	300	The network management will be based on the principles of the Telecommunication Management Network (TMN), according to ITU-T Recommendation M3010.	The ITU-T Recommendation M3010 is for SDH transport equipments management , Kindly change/ Add relevant OTN management recommendation.	Refer to Addendum VII (SI 17)
Vol.2	175	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt4	299	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card) , Physical connectivity , topology , Loss , distance details for DWDM are not available in RFP	DWDM NW is always based on design which require topology for connectivity among POP & SDC ,ICCC. Loss and distance details are also mandatory , Kindly provide the same.	Refer to Addendum VII (SI 17)
Vol.2	176	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt4	299	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card)	Supporting 10G and 100G DWDM wavelength is not an issue but 10G wavelengths may require DCM which will cause penalties for 100G wavelengths also. So it is recommended to use 100G wavelengths only.	Refer to Addendum VII (SI 17)
Vol.2	177	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt10	300	The DWDM equipment shall satisfy the following environmental conditions 1) Ambient temperature: 0°C to 45°C for the DWDM. 2) Relative humidity: Up to 90% at non-condensing for the DWDM. 3) 220 to 240VACoperation	Kindly see if DC power is also allowed for DWDM boxes.	Refer to Addendum VII (SI 17)
Vol.2	178	Dell International Services Ltd Private Limited	Vol2,Section 5 , 5.5.3.2 -Pt3	299	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	We recommend to define 2-3RU space without future Mux /Demux and further 2 RU for Mux/Demux and AMP for future NX100G requirement.	Refer to Addendum VII (SI 17)

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Vol.2	179	Dell International Services Ltd Private Limited	Volume-2, 5.3.8 Load Balancer with Web Application Firewall	188	It should be dedicated Appliance based solution with purpose-build hardware and the solution should not be a part of Router or UTM or NGFW.	For scalability and security we request to amend the clause as - " It should be dedicated Appliance based solution with purpose-build hardware and the solution should not be a part of Router or UTM or NGFW. It must have capability to host 3rd party and open source network functions like Linux CentOS, Ubuntu & others on same appliance	Tender conditions shall prevail
Vol.2	180	Dell International Services Ltd Private Limited	Volume-2, 5.3.8 Load Balancer with Web Application Firewall	188-189	Should support inbound/outbound load balancing, server load balancing and SSL offloading	For inbound load balancing DNS feature is must. Also HA parameter is missing. We request to amend the clause as - " Should support inbound/outbound load balancing, server load balancing and SSL offloading. Solution should support HA configurations using standard VRRP protocol. It should be capable of handling complete Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc."	Tender conditions shall prevail
Vol.2	181	Dell International Services Ltd Private Limited	Volume-2, 5.3.8 Load Balancer with Web Application Firewall	189	Web Application Firewall - Handle OWASP Security Attack Classification, WAF should support for IPv4 and IPv6 traffic, Support DNSSEC functionality	For better surface security we request to amend the clause as " Web Application Firewall - Handle OWASP Security Attack Classification, WAF should support for IPv4 and IPv6 traffic, Support DNSSEC functionality. Proposed WAF module should be from different OEM than Firewalls and Load Balancers for better surface security"	Tender conditions shall prevail
Vol.2	182	AMD	HyperConverged Infrastructure-Processor : Vol 2, SI No 5.3.12(2.2)	Pg No 202 of 400	The solution should have minimum adequate number of nodes with each node having latest generation Dual Intel Xeon Scalable 2.2 GHz 24 cores processors. Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules	Published specification favors Intel Xeon only, thereby promoting monopoly. Request you to kindly allow generic terms to allow AMD EPYC processors to be quoted by all major OEMs	a). The solution should have adequate number of nodes with each node having latest generation Dual processors (minimum 2.0 GHz 24 cores). Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules.
Vol.2	183	AMD	Specifications of Video Wall Server-Processor : SI No 5.2.2.5, 5.2.3	Pg No 131	Quad Core, 3.40 GHz, 8M Cache, 80W) or above	Published specification favors Intel Xeon only, thereby promoting monopoly. AMD EPYC comes with min. 8 Core Processors for enterprise workloads. Request you to kindly allow 8 Cores instead of Quad Core for better performance and better price	Quad Core or above, 3.40 GHz, 8M Cache, 80W) or above
Vol.2	184	AMD	Workstation with Joystick Controller	Pg No 132	Latest generation 64-bit x86 Dual core CPU with 3.33GHz or more	Dual Core Processors are lowend entry level processors available. For enterprise workloads we request you to kindly consider at least Hexa/6 Core. Since this is a Workstation/High-End Desktop category, performance centric Processors are suggested	Tender conditions shall prevail
Vol.2	185	AMD	Desktop PC for ICCCPProcessor : SI No 5.2.4,	Pg no 133	Latest Generation (x86 architecture with 65W TDP or lower) minimum 6 dedicated CPU cores , 4.00 GHz or higher maximum clock frequency and minimum 8 MB L3 cache or higher. Processor should have been launched in Q4'17 or later by Processor Manufacturer.	AMD Ryzen 5 with 6 Cores comes with min. 20MB Cache & Dedicated Graphics	Tender conditions shall prevail
Vol.2	186	AMD	Desktop PC for ICCCGraphics : SI No 5.2.4,	Pg no 133	Integrated Graphics (UHD / 4K)	AMD RYZEN for Desktops with 6 Cores comes with powerful Dedicated Graphics. This will allow OEMs to quote for AMD products.	Tender conditions shall prevail
Vol.1	187	Pace Power Systems Pvt. Ltd.	Valume- 01 Section 2.8	16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	It is requested to change this clause to allow EMD in Bank Guarantee Form as in this COVID-19 situation we need support.	Refer to AddendumVI

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Vol.1	188	Pace Power Systems Pvt. Ltd.	Volume- 01 Section 3.5 Sr. No. 3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed (Supply or completed) at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India	Refer to AddendumVI
Vol.2	189	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.2.12 UPS 50 KVA at ICCS	148	Capacity- 50 KVA - modular UPS with external Isolation Transformer and 60 Mins Power Backup.	Standard Frame of Modular UPS comes in 60 KVA hence requesting you to convert rating from 50 to 60KVA & expandibility upto 120kva within the frame for furtr expansion shall also be asked. Also in Modular UPS you have to add in specification "HOT SWAPPABLE Power Module" & rating of Module to be 3Ph, 20KVA/16kW.	Refer to AddendumVI
Vol.2	190	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.2.12 UPS 50 KVA at ICCS	149		For battery back-up we recommend to use Lithium Ion batteries which is widely being used by Major Govt client. Here to reduce cost, the back-up time can be reduced to 30 minutes on each 60kva UPS i.e total 1 hours when 2X60kva(N+N) are operational. This is due to the advantage of Li-Ion batteries getting charged faster. And Lithium ION Battery by default comes in 5 Yrs warranty & again can take extended warranty for another 5 Yrs from OEM.	Tender conditions shall prevail
Vol.2	191	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.2.12 UPS 50 KVA at ICCS	150	Critical Parameters missing	Many critical parameters like LCD Display, Hot Swappability of Power Module, Scalability and Output Power factor are missing which are mandatory to define for requirement like this one which is of ICCS	Tender conditions shall prevail
Vol.2	192	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.2.12 & 5.4.2.8 & 5.1.3.8 UPS 50 KVA at ICCS & UPS for ITMS & Field	149/248/89	50kva - UPS OEM should have their own engineer with service centre with adequate stock of spares at Guwahati for providing 24 x 7 x 365 On-site support. Field UPS & 2kva for ITMS - Service Support - UPS OEM should have their own established service center and Service Engineers in Guwahati to attend any issues on 24x7 basis. Service Center should be fully operational for last 5 years	Service Center support should be of either OEM or Authrized OEM Service Partner for healthy competition	Tender conditions shall prevail
Vol.2	193	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.4.2.8 & 5.1.3.8	248/88	POINT NO 15 - General Operating Temperature & Humidity - Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	As per industry standards, the operating temperature for UPS shall be 40 Degree C & Battery operating temperature to be 25 Degree C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	194	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.4.2.8 & 5.1.3.8	248/88	POINT NO 17 -Bypass - Automatic, Manual Bypass Switch	All small rating UPS of reputed OEM has automatic Static Bypass so pl delete the manual Bypass Switch for healthy competition	Tender conditions shall prevail
Vol.2	195	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.4.2.8 & 5.1.3.8	248/89	POINT NO 20 - b) RS232/Management Port for onsite servicing. c) LED indicators to be mentioned for Load/Backup/Overload/et	Requeset to amend it as b) RS 232 or USB port for interface c) LED indicators or display on LCD for status of Load/Backup/Overload etc	Tender conditions shall prevail
Vol.2	196	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume-2- 5.4.2.8 & 5.1.3.8	248/89	POINT NO 21 - Overall Protection- IP 55, Junction Box design should ensure to keep the temperature within suitable operating range for equipment's and should also avoid intentional watersplash and dust intake	We suggest to go with 500Watt Panel Cooling along with Junction BOX to maintain the operating temperature inside junction box below 30 Degree C as only Aircon can maintain temp as asked here in RFP.	Tender conditions shall prevail

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Vol.2	197	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	5.3.1 Technical Specifications of State Data-Center	159	Point 1 says -> The DC will be co-located in the State Data Centre Building. Rack Space & Power will be provided by SDC. Any charges related to this will be directly paid by GSCL to State Data Centre. Point 2 says - SI is required to implement all the hardware/software and related items as per the design offered for the smart city infrastructure including SLA monitoring and Help desk management, in a Tier III or above data Center complying to standard guidelines as per Telecommunications Infrastructure UPTIME/TIA-942.	Kindly clarify whether Data Centre is to be offered by SI with all NON-IT & Passive Infra or shall be provided by SDC/GSCL in complete where SI will bring only Active components like Servers/Switches etc	Data Centre is to be co-located at SDC, all NON-IT & Power backup shall be provided by SDC/GSCL in complete where SI will bring only Active components like Servers/ Switches/ Storage/ Firewall and Software etc.
Vol.2	198	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATIONS	62	POINT NO 12 -> OEM should have end user web interface to log case with product serial number.	We understand that this is asked from Active component OEMs. And Passive OEMs can offer 24X7 TOLL FREE NOS	Yes, this clause for Active Components OEMs and for Passive OEMs can offer 24X7 TOLL FREE Nos.
Vol.2	199	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	3.1 Data center (D	154 / 159	5.3.1 Data Centre (DC) 1. The DC will be co-located in the State Data Centre Building. Rack Space & Power will be provided by SDC.	Whether Online UPS System & Precision A.C along with all NON-IT infrastructure will be provided by SDC/GSCL because clause 5.2.17 Electrical work for Data Center & ICC on pg no 154 mentioned for Online UPS for Data Centre as well as for ICC	There is no any Power and Precision AC equipment required at SDC.
Vol.3	200	Delta Electronics India Pvt Ltd (Pre-Bid Query Set-4)	Volume -3	38	Battery replacement for all equipment / devices procured Replacement of various equipment batteries. This excludes regular maintenance of the UPS and its batteries. Measurement Tool: SLA Monitoring tool for inventory management. Batteries to be replaced every 3rd year	Whether battery are to be replaced for all UPS every 3rd year	Tender conditions shall prevail
Vol.1	201	Intellive Solution Limited	Volume 1 2.29. Eligible Goods and Services, and OEM Criteria	28/104	h) The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.F205	We understand from the clause that Smart Town Ships / Integrated Security System Projects for Plants / Campus based projects from Central/State PSUs are allowed. Please confirm if our understanding is correct. Otherwise please allow the same. Also we understand that 1000 number of cameras being asked are the aggregate Cameras from 2 City Surveillance Projects. Please confirm if our understanding is correct. Otherwise please allow the same. For Successful Completion / Installation report, normally the end customers do not issue the instalation report / completion certificate to the OEMs but to the MSIs. Therefore, it is requested to allow completion certificate/ installation report from the MSI partner of the OEM also to be considered for the project or only an undertaking from the OEM signed duly from the authorised person should be good enough for consideration which is generally the practice.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	202	Intellive Solution Limited	Volume 1 2.29. Eligible Goods and Services, and OEM Criteria	28/104	i) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	We understand from the clause that Smart Town Ships / Integrated Security System Projects for Plants / Campus based projects from Central/State PSUs are allowed. Please confirm if our understanding is correct. Otherwise please allow the same. Also we understand that 1000 number of cameras / Sensors being asked are the aggregate Cameras/Sensors from 2 City Wide Projects. Please confirm if our understanding is correct. Otherwise please allow the same. For Successful Completion / Installation report, normally the end customers do not issue the installation report / completion certificate to the OEMs but to the MSIs. Therefore, it is requested to allow completion certificate/ installation report from the MSI partner of the OEM also to be considered for the project or only an undertaking from the OEM signed duly from the authorised person should be good enough for consideration which is generally the practice.	Tender conditions shall prevail.
Vol.1	203	Intellive Solution Limited	Volume 1 3.6.1 Technical Bid Criteria & Evaluation, B4.2 Integrated Command and Control Centre Solution (OEM Criteria)	42/104	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Please allow projects from large Private Enterprises also to be considered along with State/ Central Government Department or Central/ State PSUs/ Smart City. OEM Eligibility Criteria mandates projects (2 numbers) from State/ Central Government Department or Central/ State PSUs/ Smart City which fulfills the requirement of consideration of Government Projects. Also it is requested to change the marking criteria to: 2 Projects: 3 Marks >2 Projects: 5 Marks	Refer to Addendum XII
Vol.1	204	Intellive Solution Limited	Volume 1 3.6.1 Technical Bid Criteria & Evaluation, B5VMS (OEM Criteria)	42/104	No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Please allow projects from large Private Enterprises also to be considered along with State/ Central Government Department or Central/ State PSUs/ Smart City. OEM Eligibility Criteria mandates projects (2 numbers) from State/ Central Government Department or Central/ State PSUs/ Smart City which fulfills the requirement of consideration for Government Projects. Also it is requested to change the marking criteria to: 2 Projects: 3 Marks >2 Projects: 5 Marks Also most of the government projects / PSU projects / Smart City projects do not have 1000 CCTV cameras each. It is requested to wave off this requirement of 1000 Cameras.	Refer to Addendum XII
Vol.2	205	Intellive Solution Limited	Volume 2, 5.2.2 Technical Specification – ICCC 5.2.2.1 Integrated Command Control Platform Global Market Presence & Support System	117/400	74 Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	Global Member of "Smart Cities Council" & Listing in the " Navigation Reserach Report" does not necessarily mean any additional functionality and/or commercial advantage to the customer except for increasing the cost and making it restrictive for the other ICCC/OCC software players/vendors (Make In India), which may have a better product both technically & functionally clubbed with aggressive commercials. Therefore for the sake of offering a Level Playing Field, for the ultimate benefit of the state / national exchequer and in line with the Make in India Policy of Government of India, it is suggested & requested to you to waive off / delete clause "Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.."	This clause is deleted
Vol.2	206	Intellive Solution Limited	Volume 2, 5.2.2 Technical Specification – ICCC 5.2.2.1 Integrated Command Control Platform	122-124/400	Unified Communication Platform for Smart ICCC Operation; Dispatch System for Command and Control Operations IP-based dispatch console	We understand that the requirements mentioned under these sections pertain to integration of ICCC Application with the necessary sub-system elements (Hardware & Software) i.e. Unified communication system, Dispatch system and IP based dispatch console etc which will be considered separately by the MSI.Please confirm if our understanding is correct	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.

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Vol.2	207	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	3. Wrong Lane Driving / Stoppage with ANPR (WLD)	Exact Quantities are not mentioned in Bill of Materiel for the same. Please include it into BOQ and provide number of lanes for the same.	Bidder have to perform preliminary survey to certain the lanes so that complete stretch is covered
Vol.2	208	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	c) The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India.	This is a OEM specific requirement. To increase the bid competition, we request you to kindly amend the clause as: "c) The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in last Five years in India."	The ITMS OEM should have supplied and deployed proposed system for atleast 500 ANPR systems, 100 RLVD systems and 200 SVD systems in India
Vol.2	209	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	e) The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases.	Only one type of database is used among these databases with TVDS systems. Hence we request you to kindly amend the clause as "e) The system should support Microsoft SQL/MySQL, PostgreSQL/Oracle databases"	Point d and f as per bidder solution e) The system should support Microsoft SQL/MySQL/ PostgreSQL/Oracle databases.
Vol.2	210	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	d) The system should be developed and built on operating system agnostic platform, should work on Commercially OFF THE SHELF (COTS) servers and storage solutions, and should be database agnostic. e) The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases. f) The system should support virtual computing environment and should support virtualization platforms on Windows and Linux operating systems.	Server, Storage, DB Infrastructure along with OS will be deployed only once at the time of implementation. OS, DB, storage or server infrastructure will not change during project warranty or AMC phase. So choice of Operating System, storage, database and sever platform should be left with MSI as per their solution design for most optimal performance.	Point d and f as per bidder solution e) The system should support Microsoft SQL/MySQL/ PostgreSQL/Oracle databases.

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Vol.2	211	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	g) The ITMS Software should be NABL accredited lab for accuracy	Certificate issued by NABL accredited lab is issued for accuracy of Speed Violation Detection system and not for whole ITMS software. Hence we request you to kindly remove this clause from here.	NABL Clause stands deleted. Please read the clause as In ITMS, SVD system should have proper test report and certificate (Legal Decree/type approval/homologation). The test reports/certificates should be provided by domestic/international labs who have mandate to provide the same for speed enforcement system. The test reports should be in compliance to OIMLR91, D11 and WELMEC 7.2 norms,
Vol.2	212	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	-	Is Speed is required to be captured at junctions?	Not required
Vol.2	213	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.2 Functional/General Requirements Red Light Violation Detection (RLVD) System	231 of 400	c) The system shall have in-built tool to facilitate the user to compose detail evidence by stitching video clips from any IP camera in the junction (including but not limited to the red-light violation detection camera, evidence camera), and any other surveillance cameras in the vicinity of the spot of incidence. The entire evidence should be watermarked and encrypted to stand the court of law.	Stitching of video clips is considered as tempering of the evidence video clip, which will not be acceptable in the court of law as an acceptable evidence for violation. Hence we request you to kindly amend the clause as : "c) The system shall have in-built tool to facilitate the user to compose detail evidence by RLVD Camera in the junction. The entire evidence should be watermarked and encrypted to stand the court of law."	The system shall have in-built tool to facilitate the user to compose detail evidence by RLVD Camera in the junction. The entire evidence should be watermarked and encrypted to stand the court of law
Vol.2	214	Vehant	Vol 2 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems 4. Digital Network Camera	237 of 400	f. Lens: Auto IRIS 5~50mm /8 – 40 mm, F1.4	Lens size depends upon the solution designing which varies from OEM to OEM. Hence we request you to kindly amend the clause as "f. Lens : as per OEM requirement for RLVD application."	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement

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Vol.2	215	Vehant	Vol 2 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems 6. Violation Transmission and Security	239 of 400	b. Advanced Encryption Standard (AES) shall be followed for data encryption on site and ICC, and its access will be protected by a password.	<u>Additional clause to prevent Cyber Security threats</u> <u>Considering the cyber security requirements as per govt. of India directives, necessary measures should be taken to prevent the cyber attacks/threats. CERT-IN is designated agency from govt. of India for handling cyber security of such applications. Hence we suggest to include below mentioned clause for Traffic Violation Detection Systems.</u> <u>"Proposed ANPR/RLVD/SVD Systems should have Certification of Security Assessment from any CERT-IN empanelled agencies. Same should be submitted along with the bid."</u>	b. Advanced Encryption Standard (AES) shall be followed for data encryption on site and ICC, and its access will be protected by a password. Same AES 256 bit encryption is required in Cameras and VMS Software
Vol.2	216	Vehant	Vol 2 5.4.2.4 Functional Requirements of Automatic Number Plate Recognition (ANPR) System	241 of 400	Event Type (e.g. ANPR, Red Light Violation, Speed Violation , etc.)	Speed Violation is a part of Speed Violation Detection System. Hence we request you to kindly remove "Speed Violation" from here.	Tender conditions shall prevail
Vol.2	217	Vehant	5.4.2.5 Technical Specification - ANPR SW Requirements 9. Central Management Module	244 of 400	b. ANPR Specification Base Specification of Fixed Box Cameras (Section 6.2.2.2 of Annexure I) must be part of the	ANPR Camera HW specifications are mentioned in section "5.4.2.6 ANPR HW Requirements" in the RFP. We understand this is typo error. Please correct.	Base Specification of Fixed Box Cameras must be part of the 5.4.2.6 ANPR HW Requirements
Vol.2	218	Vehant	Vol 2 5.4.2.6 ANPR HW Requirements	246 of 400	28. Flexible angle adjustment : 30°, 45°, 60°, 90°	ANPR camera has a fixed field of view (i.e. 3.5 mtr in width) and its angle is also kept fixed to capture the number plate with good accuracy. Flexible angle adjustment is useful with surveillance cameras and not for ANPR application. Hence, we request you to kindly amend the clause as : "28. Flexible angle adjustment : as per OEM requirement"	Flexible angle adjustment : as per OEM requirement for ITMS only
Vol.2	219	Vehant	Vol 2 5.4.2.1 IR - Illuminator (In case of Separate IR)	246 of 400	1. IR control: Adjustable IR intensity	Fixed IR intensity is preferable to a level where the ANPR camera can capture both HSRP and Non-HSRP with good accuracy. Variable/adjustable IR control with high intensity is a problem for capturing reflective or HSRP and variable IR control with low intensity is an issue for capturing non-standard number plates. Hence, we request you to kindly make it optional and amend the clause as : "1. IR control : IR intensity as per OEM requirement"	IR control : IR intensity as per OEM requirement for ITMS only
Vol.2	220	Vehant	Vol 2 5.4.2.1 IR - Illuminator (In case of Separate IR)	246 of 400	3. Beam Angles : 10°, 20°, 30°, 60°, 80°, and 95°	ANPR camera has a fixed field of view (i.e. 3.5 mtr in width) and each lane/ANPR Camera has dedicated IR Illuminator to capture the number plates at night. Since the ANPR camera angle is fixed , Beam angle of IR is also kept fixed to capture the number plate with good accuracy. Multiple Beam angle is useful with surveillance cameras and not for ANPR application. Hence, we request you to kindly make it optional and amend the clause as : "3. Beam Angles : as per OEM requirement"	Beam Angles : as per OEM requirement for ITMS only
Vol.2	221	Vehant	Vol 2 5.4.2.1 IR - Illuminator (In case of Separate IR)	247 of 400	8. Standards: UL, CE, FCC, EN	Since, this is an OEM specific requirement and preferring single OEM, hence, we request you to kindly amend this clause as "8. Standards: UL/CE/FCC/EN"	8. Standards: UL/CE/FCC/EN along with Eye Safety Certificate

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Vol.2	222	Vehant	Vol 2 5.4.2.1 IR – Illuminator (In case of Separate IR)	247 of 400	9. Approved Makes: The Camera and IR Illuminator shall be of the same make	Since, this is an OEM specific requirement and preferring single OEM, hence, we request you to kindly remove this clause from RFP.	Clause to read as ANPR, RLVD with illuminator and Surveillance cameras shall be of same OEM
Vol.2	223	Vehant	Vol 2 12.7 Bill of Material (BOM) Summary 1.0 Integrated Traffic Control System 1.1 Traffic Violation Detection System at Traffic Junctions	395 of 400	1.1.13 ANPR Analytics Software License with No Helmet, Triple Ride of 2-wheeler, No Seatbelt, Driver talking on Phone, Free left Blocking while driving with ANPR : 452nos.	To do and capture - No Seatbelt, Driver talking on Phone, Free left Blocking while driving with ANPR, it requires placing of setup from front or side, whereas in RLVD system camera is placed in the way that it capture Vehicle license plate from the back, so that Evidence (showing status of Traffic Light, Stopline/zebra crossing, traffic clutter etc) can be captured effectively. Hence we request you to kindly remove "No Seatbelt, Driver talking on Phone, Free left Blocking while driving with ANPR" from here.	1.1.13 ANPR Analytics Software License with No Helmet, Triple Ride of 2-wheeler, 3 Free left Blocking while driving with ANPR : 452nos.
Vol.2	224	Vehant	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	Additional clause for ITMS OEM	ITMS solutions are the key of any smart city project and lot of technological advancement keep on continuously happening. Hence the ITMS solution provider must have its development center in India to meet such upgradation requirements. Hence we suggest you to include the clause as mentioned below: "ITMS OEM should have development center in India from past 10 years."	Tender conditions shall prevail
Vol.2	225	Vehant	Vol 2 5.4.3 Speed Violation Detection System (SVD) 5.4.3.1 Speed Violation Detection System (SVD)- General Requirements 5.4.3.2 Speed Violation Detection System Requirements:	248-257 of 400	Technology : 4D Object Tracking (Range, Angle, Speed, Time) with UHD Resolution, independent discrimination multiple targets at same speed and same range	->Tender has been designed on 4D RADAR technology which is available with only One single foreign OEM. Proven technology based on Video based system has been barred here, which is also much cost effective as compared to 4D RADAR technology. There are more than 25 Smart Cities/ ITMS projects successfully deployed on Video based system, which has been kept out of this RFP There are hardly any successful 4D HD RADAR based ITMS system implementation in India and wherever they have been deployed, are facing legal hurdles due to sanctity of their challenging The RFP is also against "Make in India" regulations and Ministry of Commerce & Industry circular no. D.O. No. P-45021/12/2017-Public Procurement (BE-II) dated December 18, 2017 which states that "no specifications should be mentioned in public tenders which is barring Indian OEM to participate". Irrelevant specifications such as "Vehicle Detection at a speed of 300 Kmph is mentioned, which is not at all possible in the Indian Roads. In fact, there would hardly be any vehicle in Moradabad, which can run at such speeds. Also, the proposed RADAR based system has its own challenges and not successful in city scenario. Same has been highlighted in OIML guidelines. Above point states that that radar should be calibrated by using a video based system, which is not being installed here. Hence we hereby request you to kindly revisit the specifications and allow Video based Speed violation Detection technology as well for detection of Speed. For your convenience, Speed Violation Detection system with Video based technology specifications are attached herewith.	Tender conditions shall prevail

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Vol.1	226	Johnson Control	Vol-1 2.29. Eligible Goods and Services, and OEM Criteria	27	OEM Criteria	ATCS being a important component of the RFP, you are requested to please include suitable OEM criteria of ATCS.	Tender conditions shall prevail.
Vol.1	227	Johnson Control	Vol-1 2.29. Eligible Goods and Services, and OEM Criteria	28	The OEM of each product or technology should have valid quality certifications like ISO 9001.	ACTS being a engineering tool, you are requested to consider CMML3 for Traffic Controller OEM.	Agreed. Bidder to Refer Point 1.03 of Amendment 01. "The OEM of each product or technology should have valid quality certifications like ISO 9001 or CMMI Level 3 or better."
Vol.1	228	Johnson Control	Vol-1 3.5. Pre-Qualification Criteria	33	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India .	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also. ATCS being a new technology and Guwahathi having larger no of junctions , kindly also consider ATCS OEM experience under this clause. Also consider "Adaptive Traffic Singal Control " in place of Traffic signal Control.	Refer to AddendumVI
Vol.1	229	Johnson Control	Vol-1 3.5. Pre-Qualification Criteria P	36	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also.	Tender conditions shall prevail.
Vol.1	230	Johnson Control	Vol-1 3.5. Pre-Qualification Criteria	36	Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member	Kindly consider Certificate signed by the Company Secretary/statutory Auditor/certifying the project details, its value, completion status etc in absence of PO/Completion letter.	Bidder to Refer Point 1.04 of Amendment 01
Vol.1	231	Johnson Control	Vol-1 3.6.1 Technical Bid Criteria & Evaluation	40	B2 (Integrated Traffic Management System) : The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System	ATCS and RLVD/ANPR system being two different technologies kindly allocate separate marking for ATCS and RLVD/ANPR. OR kindly Consider " Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR <input type="checkbox"/> RLVD System / ANPR System. ATCS scope of Guwahathi is for 64 Junctions, considering the same please increase the minimum project value to 10 Cr. Also ATCS being a new technology and Guwahathi having larger no of junctions , kindly also consider ATCS OEM experience under this clause	Refer to Addendum 7 (Sl. No. 21)
Vol.1	232	Johnson Control	Vol-1 3.6.1 Technical Bid Criteria & Evaluation	42	VMS (OEM Criteria)	ATCS being a important and crucial component, please include OEM criteria in Technical evaluation also and allocate suitable marks.	Tender conditions shall prevail.
Vol.1	233	Johnson Control	Vol-1 3.6.1 Technical Bid Criteria & Evaluation	44	Proof of Concept (POC)	Pleaseinclude PoC for ATCS solution also using Simulation Tool.	Tender conditions shall prevail.

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Vol.1	234	Johnson Control	Vol-1 3.6.1 Technical Bid Criteria & Evaluation Page 44	44	Proposed resources (Max. 10 marks)	Please consider ATCS Expert also from Bidder/OEM.	Tender conditions shall prevail.
Vol.2	235	Johnson Control	Vol-2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	208	"Composite Signal Control Strategy" application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	"Composite Signal Control Strategy" being a proprietary application from CDAC, you are requested to kindly remove this clause and allow fair chance to all the global technologies.	Clause stands deleted
Vol.2	236	Johnson Control	Volume 2 4.6.2 Existing Traffic Signal system	23	The infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems which are proposed and required under the scope of this project. The dismantled infrastructure shall be delivered at the GSCL designated location without damage at no extra cost.	As per RFP, dismantling of existing traffic infrastructure and their shifting to designated warehouse location should be done at no extra cost. In the RFP details of these existing traffic signals is not available, so details of existing junctions should be included. Also as this activity involves a lot of expenditure in the form of machinery, manpower and transportation while dismantling the items and their shifting to some designated warehouse, you are requested to add this whole activity as a separate line item in the Bill of Material.	Tender conditions shall prevail
Vol.2	237	Johnson Control	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	N.XII. Make available the network status and report viewing on Web.	This requirement is contradictory with the specification given on s. no. 27 on page 212 of RFP vol. 2 where it asks " Make available the network status and report viewing on the desktop GUI as per RFP ". Please clarify.	Clause to be read as Make available the network status and report viewing on the operator console
Vol.2	238	Johnson Control	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) & 5.4.1.8	209 & 227	O. Pedestrian Actuated Traffic Control Signals at places where a large number of people cross the road with heavy vehicular traffic (near Schools, Hospitals, Shopping Centers, places of worship and similar other establishments). P. The pelican signals shall be installed on two diagonally opposite corners of the Zebra Crossing and shall be supported with facilities for the pedestrians to actuate traffic signal control. 5.4.1.8 Pedestrian / Pelican Traffic Signal Controller	In the RFP Pedestrian/ Pelican Traffic signal controllers are asked for mid block kind of junctions near the hospital, schools etc. but their quantity is not mentioned. Kindly provide the details of pelican junctions and include their quantity with traffic lights, poles etc. in the Bill of Material.	Please read Clause 'O' as Any additional item required to fulfil the functional requirement of pedestrian actuated traffic signals at selected junctions shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement " 'P' Clause stands deleted 5.4.1.8 Clause stands deleted

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Vol.2	239	Johnson Control	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any thirdparty traffic controller that is UG405 or NTCIP or any other standard communication protocol compliant.	As per RFP Clause "4.6.2 Existing Traffic Signal system" all the existing hardware including traffic lights poles, controller etc. will be dismantled and replaced by the new items. For the ATCS system it needs an ATCS Application and its dedicated type of traffic controller, any other make of traffic controller which is not supported by this ATCS Application can not be controlled through the same. Hence request you to kindly modify the clause as mentioned below: Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol.	Clause to be read as Q. ATSC shall use UG405 or NTCIP or OCIT or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any third-party traffic hardware that is UG405 or NTCIP or any other standard communication protocol compliant.
Vol.2	240	Johnson Control	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.2 Countdown timer : Nos 226	In the RFP specifications of Count Down Timers are not given anywhere, secondly count down timers are suitable for Non Adaptive system only where Cycle time and stage time remains constant. But here the system to be deployed is Adaptive in which signal timing will keep on changing based on real time detection data. Request you to kindly remove this item from the Bill of Material.	Item mentioned in BOM stands deleted
Vol.2	241	Johnson Control	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 226 1.2.10 Pedestrian lamp heads – Walk Man : Nos 226	As per the list of Traffic Junctions given in RFP, it is observed that out of 64 ATCS junctions, 33 junctions are Three Arm, 28 junctions are Four Arm and 3 junctions are Five Arm type. So for all these junction types, 1 primary vertical LED Aspect, 1 primary horizontal LED Aspect and 1 secondary LED aspects should be there for vehicles in each arm for better visibility of lights. Also there should be 2 LED aspects for pedestrians on both sides for each arm. Hence the quantity of some items mentioned in the Bill of Material should be modified as given below: 1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 485 1.2.6 Traffic Light Aspects – Red : Nos 678 1.2.7 Traffic Light Aspects – Amber : Nos 678 1.2.8 Traffic Light Aspects – Green : Nos 1737 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452
Vol.3	242	Johnson Control	Volume 3 43.6.4. City surveillance & ICT Component related performance levels	38	8. Bidder should keep minimum 10% spare at any given point of project execution. Infrastructure equipment should be replaced or repaired after complaint logging from Authority officials Measurement Tool: System generated call log at Helpdesk	ATCS Controllers is of high value item and also has MTBF more then 9 years. Hence 10% is not required. Instead kindly mention Sufficient spare to meet SLA or 10% minimum.	Refer SI 3.18 of Addendum-1
Vol.1	243	Johnson Control	Vol 1; Cl. 4.6	51	The Employer will, if requested by the CONTRACTOR, make mobilization advance payments of 10(%) percent of the Awarded Contract Value to the CONTRACTOR to assist in defraying the initial expenses that will necessarily be incurred by the CONTRACTOR for mobilization and design. The Mobilization Advance will be given to the CONTRACTOR with Simple Interest of 10 % (Percent) per annum.	Request for interest free advance.	Interest free Mobilisation advance shall be given. Rest of the conditions shall remain same. Bidder to Refer Point 1.13 of Amendment 01

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Vol.3	244	Johnson Control	Vol 3; Cl.13	16	<p>Intellectual Property Rights</p> <p>13.1. Retention of Ownership except for the rights expressly granted to the Licensee under this Agreement, the Licensor shall retain all right, title and interest in and to the Licensed Technology, including all worldwide Technology and Intellectual property and proprietary rights.</p> <p>13.2. Preservation of Notice Licensee shall not remove, efface or obscure any copyright notices or other proprietary notices or legends from any Licensed Technology or materials provided under this Agreement, and shall reproduce all such notices and legends when incorporating Licensed Technology or materials into any Integrated Products.</p> <p>13.3. SI must ensure that while using any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person/Company. SI shall keep the Authority indemnified against all costs, expenses and liabilities howsoever, arising out any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or violation of any permission/license terms or infringement of any Intellectual Property Rights by SI or SI's Team during the course of performance of the Services. SI's liability is excluded regarding any claim based on any of the following (a) anything Authority provides which is incorporated into the Solution; (b) the Authority's modification of the solution;</p> <p>13.4. Authority shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by SI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. SI undertakes to disclose all such Intellectual Property Rights arising in performance of the Services to the Authority, execute all such agreements/documents and obtain all permits and approvals that may be necessary in regard to the Intellectual Property Rights of the Authority.</p> <p>13.5. If Authority desires, SI shall be obliged to ensure that all approvals, registrations, licenses, permits and rights etc. which are inter-alia necessary for use of the goods supplied / installed by SI, the same shall be acquired in the name of the Authority, prior to termination of this Contract and which may</p>	we understand this clause is not applicable for Core IPR of any product. Please clarify.	Refer SI 3.13 of Addendum-1
Vol.3	245	Johnson Control	Vol 3; Cl.15	18	<p>15. Indemnity</p> <p>15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:</p> <p>a. any negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or</p> <p>b. any breach of any of the terms of SI's bid as agreed, the RFP and this Contract by SI</p> <p>c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof</p> <p>15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc.</p> <p>15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims</p>	<p>1. Limitation of Liability shall be capped at 100% of Contract Value.</p> <p>2. Request you to delete all Carve Out/ Exclusions from Limitation of Liability</p> <p>3. Either party under no legal theory shall have right to claim for consequential losses and damages</p>	Refer SI 3.01 of Addendum-1

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Vol.3	246	Johnson Control	Vol 3; Cl.22	21	<p>22. Force Majeure</p> <p>22.1. Force Majeure shall not include any events caused due to acts/ omissions of SI resulting in a breach/ contravention of any of the terms of the Contract and/or SI's Bid. It shall also not include any default on the part of SI due to its negligence or failure to implement the stipulated/ proposed precautions, as were required to be taken under the Contract.</p> <p>22.2. The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.</p> <p>22.3. In case of a Force Majeure, all Parties shall endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.</p> <p>22.4. Force Majeure shall not apply to any obligation of the Owner to make payments to the Contractor</p>	<p>Request you to incorporate the following</p> <ul style="list-style-type: none"> • Request to add events beyond the control of either Party or both the Parties. • Right of EOT and price implication • Both the parties shall have termination rights to both the parties for prolonged suspension due to FM conditions for period more than 60 days continuous and / or 90 days cumulative. • In case of termination SI shall be entitled to be paid for work completed and work in progress 	<p>Read amended clause 22.4 as : In case of Force majeure, the Contractor will be liable only for the Extension of Time for Completion of work and Force Majeure shall not apply to any obligation of the Owner to make payments to the Contractor.</p> <p>Refer SI 3.02 of Addendum 1</p>
Vol.3	247	Johnson Control	Vol 3; Cl.24	22	<p>24. Insurance</p> <p>24.1. The Goods supplied under this Contract shall be comprehensively insured by SI at his own cost, against any loss or damage, for the entire period of the contract. SI shall submit to the Authority, documentary evidence issued by the insurance company, indicating that such insurance has been taken.</p> <p>24.2. SI shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods and also the charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective sites of installation shall also be borne by SI.</p> <p>24.3. SI shall take out and maintain at its own cost, on terms and conditions approved by the Authority, insurance against the risks, and for the coverages, as specified below;</p> <p>a. At the Authority's request, shall provide evidence to the Authority showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.</p> <p>b. Employer's liability and workers' compensation insurance in respect of the Personnel of the Company, in accordance with the relevant provisions of the Applicable Law as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate</p>	<p>SI shall undertake comprehensive insurance cover valid till scheduled completion period, in case of extension of time for reasons not attributable to SI, period of cover shall be extended by SI at the cost of GSCL.</p>	<p>Refer SI 3.04 of Addendum-1</p>

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Vol.3	248	Johnson Control	Vol 3; Cl.25	22	<p>25. Transfer of Ownership 25.1. SI must transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide source code, transfer IPR and ownership right of only those solutions which would be customized by bidder for the use of Guwahati Smart City Limited. For any pre-existing work, SI and Guwahati Smart City Limited shall be held jointly responsible and its use in any other project by SI shall be decided on mutual consent. 25.2. Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by the Authority, SI shall deliver to the Authority all Documents provided by or originating from the Authority and all Documents produced by or from or for SI in the course of performing the Services, unless otherwise directed in writing by the Authority at no additional cost. SI shall not, without the prior written consent of the Authority store, copy, distribute or retain any such Documents</p>	IP rights cannot be transferred or assigned in manner to GSCL.	Refer SI 3.14 of Addendum-1
Vol.3	249	Johnson Control	Vol 3; Cl.28	24	<p>28. Liquidated Damages: 28.1. If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. 28.2. The deduction shall not in any case exceed 10 % of the contract value. 28.3. The Authority may without prejudice to its right to effect recovery by any other method, deduct the amount of liquidated damages from any money belonging to SI in its hands (which includes the Authority's right to claim such amount against SI's Bank Guarantee) or which may become due to SI. Any such recovery or liquidated damages shall not in any way relieve SI from any of its obligations to complete the Work or from any other obligations and liabilities under the Contract. 28.4. Delay not attributable to SI shall be considered for exclusion for the purpose of computing liquidated damages.</p>	<p>1. Request you to cap the overall LD for delay in completion at 5% of the Contract Value. 2. Request you to add the following wordings "Levy of LD shall be sole and exclusive remedy available to GSCL."</p>	Tender conditions shall prevail
Vol.3	250	Johnson Control	Vol 3; Cl.29	24	<p>29. Limitation of Liability: Limitation of Bidder's Liability towards the Authority: 29.1. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or wilful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out the Services, SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher. 29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services</p>	<ul style="list-style-type: none"> • Limitation of Liability shall be capped at 100% of Contract Value. • Request you to delete all the Carve Out/ Exclusions from Limitation of Liability • Either party under no legal theory shall have right to claim for consequential losses and damages 	Refer SI 3.01 of Addendum-1

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	251	DRAVIN ISURVE SOLUTION LLP	Vol-1 Clause# 4.3	49	PBG 10%	PBG should be 5% on Project value and the after commissioning of project for O&M period it should be 5% of O&M value. This is requested because value is high and cost of BG will be loaded on cost and therefore, the value quoted will go up. BG is in any case to safeguard. Since only supply only 60% is paid, therefore lot of money of contractor will be on hold with GSCL.	Refer to Addendum VI
Vol.2	252	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause# 4.2.1	13	survey, design and plan	<p>Based on the similar works done by JCNL for survey, design, planning in Bharatnet and GMDA (Gurugram Metropolitan Development Authority) which is successfully implemented, we propose following changes in methodology:</p> <p>Survey The reference is enclosed for similar work in Jharkhand (RFP RFP-JCNL_-PIA_Compessed) where work is in progress after successful award of work</p> <ol style="list-style-type: none"> 1. Local authority development plans – Road widening, Bridges, Diversions, Water, drainage, electricity, gas, sewage departments 2. Bridges, culverts and road crossings 3. Soil conditions 4. Utility service providers future plans like- Electricity, Gas, Water, Sewer, Telecommunications <p>B. A detailed measurement of length of cable routes along with details of road crossings, culverts, bridges, footpath, poles, RCC, critical patches etc. shall be recorded in the video with distance from start point and lengths. The video should record GPS on video itself and lengths are calculated by software. The KMZ/KML/SHP files are required to create GIS layers.</p> <p>C. Details of RoW authorities and their terms for permission are required. The survey report shall contain the detailed execution plan, BoM (Bill of materials), BoS (Bill of Services) and the video of survey with complete details about strata and visuals of local conditions</p> <p>A comprehensive documentation folder in soft copy (in Video format with GPS on video itself, KMZ format and MS Excel) to be submitted on the completion of the survey. GPR was also done in GMDA as part of the survey as in city area lot of utilities are there. GMDA on similar lines as in JCNL got the GPS embedded video survey with number of layers on GIS for design of the complete network including electronics. Therefore it is proposed to have GPS embedded Video based survey, design & plan alongwith GPR to get much better accuracy on time, cost, quality, safety & risk mitigation.</p>	Tender conditions prevail Additionally Bidder may refer to Clause 4.3 on Page 15 and 16 of Vol II for details regarding their query keeping in mind the present scope of works as per the RFP
Vol.2	253	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause# 7 a)	15	capacity building	Request please add video based training.	Tender conditions shall prevail
Vol.2	254	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause# 8	15	Documentation	<p>The documentation should cover: Documentation for handover of the route:</p> <ol style="list-style-type: none"> 1. All AT sheets should be duly signed by contractor and client's supervisor/third party auditor. 2. Traces of HDD shot profiles should be part of Video As Build Drawing (VABD) 3. Single line diagram (Route Index Diagram – RID) showing route details, MH locations, joint locations, landmarks, route indicator locations should be part of VABD. 4. KMZ/KML/SHP files shall be loaded on GIS in NOC 5. VABD with GPS coordinates encompassing complete details of route including manholes, offset from road center at regular interval (Route Marker locations), change of road, MH location, HDD profiles, cable locator profiles, loop details in MH for ease of operation. This should be system compatible w.r.t laptop or mobile with modification rights to update the documents (as part of change management during O&M) 	Tender conditions shall prevail
Vol.2	255	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause#4.3.6	15	Assessment, Site Survey and Project Plan	Same as in Point 2 above.	Tender conditions prevail. PI refer to SI no 253
Vol.2	256	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause#4,5,7	16	GUI, KMZ, Design	Same as in Point 2 above.	Tender conditions shall prevail

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Vol.2	257	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause#4.4 stage 1	16	Design	Same as in Point 2 above.	Tender conditions shall prevail
Vol.2	258	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause#4.4 stage 3	17	As built drawings	Same as in Point 4 above.	Tender conditions shall prevail
Vol.2	259	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause#4.6.1	23	Survey	Same as in Point 2 above.	Tender conditions shall prevail
Vol.2	260	DRAVIN ISURVE SOLUTION LLP	5.5.1 Network Backbone Connectivity	271	duraline make	It should not be company specific	The term "Duraline" stands deleted
Vol.2	261	DRAVIN ISURVE SOLUTION LLP	5.5.1 Network Backbone Connectivity	277	G)b)	Request clarify three (2) meaning	In either method of road crossing, DWC duct should be used with two (2) ducts in case of National Highways (NH) or State Highways (SH). DWC duct should projected 3 M outside black topping on either side in case of boring, HDD or Open Trench methods.
Vol.2	262	DRAVIN ISURVE SOLUTION LLP	5.5.1 Network Backbone Connectivity	285	a cable route plan	Same as in Point 4 above.	Tender conditions shall prevail
Vol.2	263	DRAVIN ISURVE SOLUTION LLP	Vol-2 Clause#13	289	OFC	We suggest that higher fiber count should be used. In Gurugram for similar network they have used 96 fiber cable.	Tender conditions shall prevail
Vol.2	264	DS SYSTEMS PVT. LTD.	Vol-2 5.1.3.8 Online UPS for Field Locations (pages 87-89)	pages 87-89	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better	As per industry standards, UPS operating temperature is in the range 0°C to (+)40 °C and storage temperature range is (-)10°C to (+)70°C. This is also in compliance with Guwahati City Climatic conditions which is a humid subtropical climate with average annual temperature of 22.2 °C and average high of 29.5°C , with extremes ranging from 40°C (high) to 2.0 °C (low). In view of this, Operating Temperature range may be fixed as 0°C to (+)45°C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	265	DS SYSTEMS PVT. LTD.	Vol-2 5.4.2.8 Online UPS for Field Locations (ITMS Crossing) (page 247 & 248)	page 247 & 248	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better	As per industry standards, UPS operating temperature is in the range 0°C to (+)40 °C and storage temperature range is (-)10°C to (+)70°C. This is also in compliance with Guwahati City Climatic conditions which is a humid subtropical climate with average annual temperature of 22.2 °C and average high of 29.5°C , with extremes ranging from 40°C (high) to 2.0 °C (low). In view of this, Operating Temperature range may be fixed as 0°C to (+)45°C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)60 Degree C or better
Vol.2	266	DS SYSTEMS PVT. LTD.	Vol-2 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever (Page 36)	Page 36	7. The Junction Box for UPS with Battery bank needs to be considered separately.	The Bill of Material (BOM) Summary (Page 394-400) does not include separate Junction Box for UPS & Battery Bank; kindly include in BoM the following: 137 nos. dedicated Junction Box for 2 KVA Online UPS for Field Locations (ITMS Crossing) and 757 nos. dedicated Junction Box for 1 KVA Online UPS for Field Locations (CCTV Cameras)	Deleted the clause no. 4.14 Sr, No. 7. The Junction Box for UPS with Battery bank needs to be considered separately. Bidder can Propose the Single Junction box that can be sufficient to house all power equipments, battery and control/networking unit in a single box.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	267	DS SYSTEMS PVT. LTD.	Vol-2 5.2.12 UPS 50 KVA at ICCG (page 148 & 149) and 5.2.16 Diesel Generator Set (DG) 75 KVA - ICCG (Page 150)	Page 150	<p>5.2.18.3 Electrical Distribution System (Page 156) c) Connection between UPS system and the network switch racks shall be redundant. No single point of failure shall exist in the power connectivity between network racks and UPS system.</p> <p>5.2.18.5 UPS requirements and features (Page 156) UPS system shall provide a redundant power supply to the following needs: • Servers and important network and storage equipment • Access control, Fire Detection & suppression system and surveillance system</p> <p>5.3.1.1 Technical Specifications of State Data-Center facilities that are readily available at State Data Centre (SDC). Receiving Power: SDC redundant UPS UPS: UPS system with N+N redundancy Generator: Gen-set with N+1 redundancy</p>	<p>The Bill of Material (BOM) Summary (Page 394-400) specifies only ; 01 no. 50 KVA UPS at ICCG and 01 no. 75 KVA DG at ICCG which does not ensure redundancy as per RFP requirements. Moreover as some applications and equipment shall be hosted at SDC which has N+N redundancy, request you to change qty of 50 KVA UPS and 75 KVA DG to 02 nos. each for ensuring 1+1 or N+N redundancy in power source, ensuring uniformity and eliminating single point of failure in the power circuit1</p>	<p>As per RFP.</p> <p>This power backup equipment required at Temp. ICCG location and will be shift to new permanent ICCG where these will work as redundant.</p>
Vol.2	268	DS SYSTEMS PVT. LTD.	Vol-2 5.1.3.4 Field Junction Box		<p>As the Junction Box shall be providing protection to the critical electronic equipment by withstanding harsh environmental and corrosive conditions such as Rain, Dust, Heat, moisture etc. the build material and quality should be such that the enclosure is able to reduce these threats by eliminating hot spots and condensation thereby decreasing the failure of sensitive communications or other electronic equipment.</p>	<p>Kindly include the following specifications in Field Junction Box : a) Should be CNC fabricated made of Galvanized Steel with anti-corrosion outdoor powder coating Pure Polyester. b) Protection from the suns heat using double wall technology, thermal chamber and high-performance insulation to minimise the effects of solar heat gain and the transference of heat/cold c) There shall be heat insulation between inner wall and outer wall. The insulation material shall be 30mm-50mm PEF. d) Cooling: Redundant Fans to be mounted for hot air outlet only</p>	<p>Tender conditions shall prevail</p>
Vol.1	269	DRA Infracon Pvt. Limited (DRAIPL)	Volume 1 . 3.5. Pre-Qualification Criteria	33	<p>A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. In case of consortium: - Lead Bidder should have minimum 60% of the Average Annual Turnover requirement - Each consortium member should have minimum 30% of the Average Annual Turnover requirement - All members together should meet 250 Crore Average Annual Turnover requirement B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. . - ICT Infrastructure - IT system integration services</p>	<p>The turnover criteria to ensure financial stability of the bidder needs to be considered in the interest of the project. There are multiple components in the RFP and multiple consortium partners bring in their core expertise. To allow companies having requisite financial and technical experience in the smart cities domain and wider participation by qualified bidders, request you to kindly modify the clause as under: " A. The Sole Bidder shall have an average annual turnover of 400 Crore over the last three (3) financial years. In case of consortium: - Lead Bidder should have minimum 60% of the Average Annual Turnover requirement - Each consortium member should have minimum 30% of the Average Annual Turnover requirement - All members together should meet 400 Crore Average Annual Turnover requirement B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. . - ICT Infrastructure - IT system integration services</p>	<p>Refer to AddendumVI</p>
Vol.1	270	DRA Infracon Pvt. Limited (DRAIPL)	Volume 1 . 1. 3.2. Method of Selection	7	<p>The method of selection is QCBS – Quality cum Cost based Selection. The Contract will be awarded to the bidder with highest Total Score</p>	<p>RFP procedure of selection of Bidder which is not based on L1 basis, will result in to huge extra expenditure and thereby huge loss to Governmentexchequer. Since the selected Bidder has to carry out the work absolutely in accordance with given specification and quality standards for each item, that appears to be no reason / necessity to adopt the procedure of QCBS for the selection of Bidder. Therefore we humbly request GSCL to please change method of selection of Bidder on L1 basis instead of QCBS. There are / were similar and even much bigger mission critical projects in defence, aviation, ports, MES etc where the criteria of bid evaluation is always L1 basis.</p>	<p>Tender conditions shall prevail.</p>

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	271	DRA Infracon Pvt. Limited (DRAIPL)	Volume 1 3.6.1 Technical Bid Criteria & Evaluation, B4.2 Integrated Command and Control Centre Solution (OEM Criteria)	42/104	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Please allow projects from large Private Enterprises also to be considered along with State/ Central Government Department or Central/ State PSUs/ Smart City. OEM Eligibility Criteria mandates projects (2 numbers) from State/ Central Government Department or Central/ State PSUs/ Smart City which fulfills the requirement of consideration of Government Projects. Also it is requested to change the marking criteria to: 2 Projects: 3 Marks >2 Projects: 5 Marks	Refer to AddendumVI, VII and XII
Vol.1	272	DRA Infracon Pvt. Limited (DRAIPL)	Volume 1 3.6.1 Technical Bid Criteria & Evaluation, B5VMS (OEM Criteria)	42/104	No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Please allow projects from large Private Enterprises also to be considered along with State/ Central Government Department or Central/ State PSUs/ Smart City. OEM Eligibility Criteria mandates projects (2 numbers) from State/ Central Government Department or Central/ State PSUs/ Smart City which fulfills the requirement of consideration of Government Projects. Also it is requested to change the marking criteria to: 2 Projects: 3 Marks >2 Projects: 5 Marks Also most of the government projects / PSU projects / Smart City projects do not have 1000 CCTV cameras each. It is requested to wave off this requirement of 1000 Cameras.	Refer to Addendum VI
Vol.2	273	DRA Infracon Pvt. Limited (DRAIPL)	Volume 2, 5.2.2 Technical Specification – ICCC 5.2.2.1 Integrated Command Control Platform Global Market Presence & Support System	117/400	74 Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	Global Member of "Smart Cities Council" & Listing in the " Navigation Reserach Report" does not necessarily mean any additional functionality and/or commercial advantage to the customer except for increasing the cost and making it restrictive for the other ICCC/OCC software players/vendors (Make In India), which may have a better product both technically & functionally clubbed with aggressive commercials. Therefore for the sake of offering a Level Playing Field, for the ultimate benefit of the state / national exchequer and in line with the Make in India Policy of Government of Inida, it is suggested & requested to you to waive off / delete cluase "Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.."	This clause is deleted
Vol.1	274	ITI Limited	Vol.1. Section 2, 2.8	16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	We request you to exempt the submission of EMD for Central PSUs	Refer to AddendumVI
Vol.1	275	ITI Limited	Vol.1. Section 2, 2.8	16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	We request you to allow Central PSUs to submit Corporate Guarantee in place of EMD Bank Guarantee	Refer to AddendumVI
Vol.2	276	ITI Limited	Vol 2 4 Port POE switch, clause no. 12	Page 83	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	277	ITI Limited	Vol 2 4 Port POE switch, clause no. 13	Page 84	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at

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Vol.2	278	ITI Limited	Vol 2 , 8 Port POE switch, clause no. 5	Page 85	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	279	ITI Limited	Vol 2, 8 Port POE switch, clause no. 7	Page 85	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	280	ITI Limited	Vol 2 , 8 Port POE switch, clause no. 8	Page 85	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 22 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	281	ITI Limited	Vol 2 , 8 Port POE switch, clause no. 12	Page 86	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	282	ITI Limited	Vol 2 , 8 Port POE switch, clause no. 13	Page 86	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	283	ITI Limited	Vol 2 , Internet Switch -L3, clause no. 6	Page 136	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.2	284	ITI Limited	Vol 2 , OOB Switch, clause no. 7	Page 169	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	285	ITI Limited	Vol 2 , OOB Switch, clause no. 11	Page 169	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	286	ITI Limited	Vol 2 , OOB Switch, clause no. 15	Page 169	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	287	ITI Limited	Vol 2 , OOB Switch, clause no. 20	Page 170	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	288	ITI Limited	Vol 2 , Spine & Leaf Switch, clause no. 9	Page 166	Support for at least 4000 VLANs	Support for at least 3900 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	289	ITI Limited	Vol 2 , Spine & Leaf Switch, clause no. 11	Page 166	Support for 200,000 or more MAC addresses	Support for 90,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	290	ITI Limited	Vol 2 , Point No-7 Sec -b	Page no-163	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all Oems are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	291	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-1.4	Page no-180	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	292	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-1.5	Page no-180	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1

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Vol.2	293	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-1.6	Page no-180	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted
Vol.2	294	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-1.7	Page no-180	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	295	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-2.1	Page no-181	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	296	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-2.7	Page no-181	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	297	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-2.8	Page no-181	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	298	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-2.11	Page no-182	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	299	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-4.1	Page no-182	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	300	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-5.2	Page no-183	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	301	ITI Limited	Vol 2 , Intranet Firewall with IPS, Clause No-5.6	Page no-183	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	302	ITI Limited	Vol 2 , Next generation Firewall , Clause No 22	Page no-185	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail
Vol.2	303	ITI Limited	Vol 2 , Load Balancer with WAF, Clause No 2	Page No. 188	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	304	ITI Limited	Vol 2 , Load Balancer with WAF, Clause No 9	Page No. 189	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	305	ITI Limited	Vol 2 Load Balancer with WAF		New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	306	ITI Limited	Vol 2 , Storage Specifications	page No. 198	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to Addendum XII
Vol.2	307	ITI Limited	Vol 2 , Storage Specifications	page No. 199	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	308	ITI Limited	Vol 2 , Storage Specifications	page No. 200	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	309	ITI Limited	Vol 2 , Hyper Converged Infrastructure (HCI)	Page No. 202	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	310	ITI Limited	Vol 2, L2 Switch for POP		Change Request	Exisiting specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	311	ITI Limited	Vol 2 , DWDM/OTN, Clause No. 1	Page No. 299	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	311	ITI Limited	Vol 2 , DWDM/OTN, Clause No. 1	Page No. 299	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	311	ITI Limited	Vol 2 , DWDM/OTN, Clause No. 1	Page No. 299	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)

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Vol.2	311	ITI Limited	Vol 2 , DWDM/OTN, Clause No. 1	Page No. 299	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	311	ITI Limited	Vol 2 , DWDM/OTN, Clause No. 1	Page No. 299	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	316	ITI Limited	Vol 2 , Core Router, Clause No. 62	Page No. 298	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	317	ITI Limited	Vol 2 , Core Router, Clause No. 65	Page No. 298	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	318	Bosch Limited	Vol-2 5.1.3.1 Dome CCTV Cameras	Page 72 of 400	10 Image Sensor 1/2.8" Progressive Scan CMOS or better	Request Smart City, Please consider 1/2.9" CMOS or Better.	Tender conditions shall prevail
Vol.2	319	Bosch Limited	Vol-2 5.1.3.1 Dome CCTV Cameras	Page 73 of 400	23 SD CARD Built in SD card slot with support up to 128 GB with Class 10 speed. Camera should have pre-installed SD card of 128 GB. The camera should have the facility to store the data on local SD card inside the camera in case of network connection loss and the stored data on SD card should be automatically sent to the storage when network reconnects.	Request to consider 1TB SD Card Support. In future if any demands increase in inbuilt storage of camera. As smart cities are long term project. Camera should have provision for expandability.	Refer to Addendum XII
Vol.2	320	Bosch Limited	Vol-2 5.1.3.1 Dome CCTV Cameras	Page 71 of 400	4 Shutter Time 1/5 sec. to 1/25,000 sec. or better	Request Smart City , Please consider shutter speed 1/1 sec. to 1/10,000 sec as same as bullet camera. Mentioned shutter speed in bullet camera is practically sufficient for Indoor dome camera application	Shutter Time 1/1 sec. to 1/10,000 sec. or better
Vol.2	321	Bosch Limited	Vol-2 5.1.3.2 Fixed Bullet CCTV Cameras	Page 75 of 400	18 Wide Dynamic Range > 120 dB or Better	Request Smart City to consider WDR 85dB as per IEC 62676-Part 5 WDR Standard	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
Vol.2	322	Bosch Limited	Vol-2 5.1.3.2 Fixed Bullet CCTV Cameras	Page 76 of 400	24 SD CARD Built in SD card slot with support up to 128 GB with Class 10 speed. Camera should have pre-installed SD card of 128 GB. The camera should have the facility to store the data on local SD card inside the camera in case of network connection loss and the stored data on SD card should be automatically sent to the storage when network reconnects.	Request to consider 1TB SD Card Support. In future if any demands increase in inbuilt storage of camera. As smart cities are long term project. Camera should have provision for expandability.	Addendum XI
Vol.2	323	Bosch Limited	Vol-2 5.1.3.3 PTZ CCTV Cameras	Page 78 of 400	17 Tilt Tilt: Up to 300°/s	Request smart city to consider tilt speed 120 deg same as Pan Speed in the tender. Ideally Tilt speed is less than Pan Speed	Tilt: 3° - 90°, up to 100°/s or better
Vol.2	324	Bosch Limited	Vol-2 5.1.3.3 PTZ CCTV Cameras	Page 78 of 400	20 Pre-set / Tour 256 pre-set positions, Minimum 8 Tour	Request smart city to consider 4 tours with recorded tours and pre position ours	Pre-set / Tour : 256 pre-set positions, Minimum 4 Tour
Vol.2	325	Bosch Limited	Vol-2 5.1.3.3 PTZ CCTV Cameras	Page 79 of 400	25 SD CARD Built in SD card slot with support up to 128 GB with Class 10 speed. Camera should have pre-installed SD card of 128 GB. The camera should have the facility to store the data on local SD card inside the camera in case of network connection loss and the stored data on SD card should be automatically sent to the storage when network reconnects.	Request to consider 1TB SD Card Support. In future if any demands increase in inbuilt storage of camera. As smart cities are long term project. Camera should have provision for expandability.	Addendum XI
Vol.2	326	Bosch Limited	Vol-2 5.1.3.3 PTZ CCTV Cameras	Page 80 of 400	27 Alarm I/O Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interfac	Request smart City to consider Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface. As 2 input and 1 output is sufficient for city surveillance applications	Alarm I/O Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface

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Vol.2	327	Bosch Limited	Vol-2 5.4.2.6 ANPR HW Requirements	Page 244 of 400	4 shutter time PAL: 1/20- 1/30,000 sec.	Request smart city to consider fixed shutter 1/25 to 1/15000s and Automatic electronic shutter.	Request smart city to consider fixed shutter 1/25 to 1/15000s and Automatic electronic shutter for both ANPR & RLVD Camera
Vol.2	328	Bosch Limited	Vol-2 5.4.2.6 ANPR HW Requirements	Page 245 of 400	13 S/N Ratio >60db	Request Smart City to accept S/N ratio 55dB	Clause to be read as S/N Ratio >55db for both ANPR & RLVD Camera
Vol.2	329	Bosch Limited	Vol-2 5.4.2.6 ANPR HW Requirements	Page 245 of 400	WDR Upto 140db	Request Smart City to consider WDR upto 120 db as per IE62676-Part 5 standard	Clause to be read as WDR >= 120 Db for both ANPR & RLVD Camera
Vol.2	330	Bosch Limited	Vol-2 5.4.2.6 ANPR HW Requirements	Page 246 of 400	IR Illuminator 850nm intensity adjustable IR with minimum 30 meters range, IR from same Camera OEM	Kindly remove this clause as 30 meter inbuilt IR is not suitable for ANPR Camera and already external IR Specs is given in the tender	Kindly refer External Illuminator specs 5.4.2.7 IR – Illuminator (In case of Separate IR)
Vol.2	331	Bosch Limited	Vol-2 5.1.3 Technical Specifications – CCTV Surveillance System	Page 71 of 400		Request Smart City to add OEM Criteria, OEM should be in list of top 10 as Per IHS Last 3 year Reports.	OEM should be in list of top 10 as Per IHS Last 3 year Reports.
Vol.2	332	Bosch Limited	Vol-2 5.1.3 Technical Specifications – CCTV Surveillance System	Page 71 of 400		Request Smart City to add security features in all the cameras :- Onboard Trusted Platform Module, Public key infrastructure, AES 256 bit encryption which will help to reduce malicious attacks in the camera	Tender conditions shall prevail
Vol.2	333	Bosch Limited	Vol-2 5.1.3 Technical Specifications – CCTV Surveillance System	Page 71 of 400		Request Smart City to add software sealing feature, any changes in the camera configuration once configured will break the seal and alert the user that someone has changed the settings	To prevent tampering / misuse of cameras at remote field locations during operational period of the system, the cameras should have the capability to detect and create a log if any user changes the configuration as software sealing broken with date and time stamp in the camera itself
Vol.2	334	Bosch Limited	Vol-2 5.1.4 Video Management System (VMS)	Page 91 of 400	3. The import/export tool shall be as sophisticated as necessary to support the following: a. Log every action so an audit or report can be completed	Request smart City to amend the clause for client action 3. The import/export tool shall be as sophisticated as necessary to support the following: a. Log every action of operator at client end so an audit or report can be completed though	Tender conditions shall prevail
Vol.2	335	Bosch Limited	5.1.3 Technical Specifications – CCTV Surveillance System		Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	Request smart city to amend this clause, as this clause related to raw material of product, this shall be certified by OEM on letter head and request smart city to keep as minimum 10 years life of Product	Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software (Siemens / GE)
Vol.1	336	Lookman	Volume 1 2.29. Eligible Goods and Services, and OEM Criteria	27	f)The proposed OEM should have installed base of at least 20% of the quoted product in terms of volume in a single project.	This will create disproportionate Pre Qualification as for some items the criteria is too minute, also if OEM seeks to offer a new cutting edge product, he won't be able to do so as the clause effectively prevents him from quoting a new launch. This criteria may be amended with standard OEM criteria such as: OEM should have supplied at least 5000 Box cameras in City surveillance or smart city projects, and 2000 ITMS cameras.	Tender conditions shall prevail.
Vol.1	337	Lookman	Volume 1 2.29. Eligible Goods and Services, and OEM Criteria	28	h)The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.	Request to allow OEM with VMS supplied for at least 1 project with 500 cameras registered to the centrally monitored VMS for City surveillance / Police department projects	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	338	Lookman	Volume 1 2.29. Eligible Goods and Services, and OEM Criteria	28	The ICCS Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	Request to allow INDIAN OEM with Recognised Rnd center in India along with CMMI 5 certification.	Tender conditions shall prevail.
Vol.2	339	Lookman	Volume 2 5.1.3.1 Dome CCTV Cameras 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	74,76,80	OEM Criteria: Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	Request to modify the clause as Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB or OEM Self Declaration.	Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	340	Lookman	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	75,78	Multiple Streams:Quad stream	Quad stream points to 4 configurable streams, most city surveillance projects are deployed over a single configured stream that is multicasted into many clients or atleast 5 copies in unicast of the same stream. No more than 3 configurable streams are needed, so this may be amended to: triple stream with Unicast support for 5 streams and with Multicast support.	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	341	Lookman	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	75,79	Security: Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471	Request you to consider to remove all the sub part no.each OEM part no will have differ and it may higher orlower. But giving explanation on sub part no will be challenging . So request to change as Any of the security certifications of IEC/EN/UL	Certification UL, EN , CE , FCC, ONVIF profile S, G, T for all cameras
Vol.2	342	Lookman	Volume 2 5.1.3.3 PTZ CCTV Cameras	79	Camera Analytics:Camera must have edge base analytics Viz; Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	Camera level edge analytics are generally light in compute and limited in ability, leading to false negatives and false positives when implemented across a whole city, it would be appropriate to allow these on an edge device connected to the camera or at a central location if incase all feeds are being transmitted via the network for recording. running 8 analytics on a camera board is not ideal and favors specific OEM, whose analytics have tested poorly in the past	Edge Analytics The SI will be responsible for designing and implementing edge analytics at either at camera level or server level. Following listed use cases should be part of implementation (should run simultaneously) and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) People Counting e) Line Crossing f) Idle/Remove object, Scene Changed g) Follow Route
Vol.2	343	Lookman	Volume 2 5.1.4 .Video Management System (VMS) 5.1.4.12 VMS System Size	103	The VMS OEM must have at least one project experience of minimum 2000 cameras in India. (PO copy required to be submitted).	Request to allow OEM with VMS supplied for atleast 1 project with 500 cameras registered to the centrally monitored VMS for City surveillance / Police department projects	The OEM of VMS and Camera should have experience of deploying their solution together as a bundle in minimum of 3 projects in the last 5 years in India, with atleast 1500 cameras integrated with VMS in each of the projects.
Vol.2	344	Lookman	Volume 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	230	The ITMS OEM should have quality certification (nationally/internationally recognized) with R&D center in India for past 5 years. Necessary documentation to this effect must be submitted.	Cutting edge A.I based solutions have begun recently in india, request to amend this requirement to 2 years, else it is favouring particular OEMs	Clause stands deleted
Vol.2	345	Lookman	Volume 2 5.4.2.5 Technical Specification - ANPR SW Requirements	244	Base Specification of Fixed Box Cameras (Section 6.2.2.2 of Annexure I) must be part of the	The referred Section 6.2.2.2 of Annexure I is not available in RFP. Kindly clarify	Base Specification of Fixed Box Cameras must be part of the 5.4.2.6 ANPR HW Requirements

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Vol.2	346	Microfocus	Volume 2 5.3.9 SIEM solution Point# 2	190	Next generation platform should encompass log, packet and end point data with added context and threat intelligence. Should provide complete network visibility through deep packet inspection high speed packet capture and analysis.	Next generation platform should encompass Big data analyses, log investigation, Advanced data platform and real time correlation.	Tender conditions shall prevail
Vol.2	347	Microfocus	Volume 2 5.3.9 SIEM solution Point# 3	190	SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	SIEM and Log management must be from same OEM and must have single console	SIEM for Logs and deep packet inspection can be from same or different OEM.
Vol.2	348	Microfocus	Volume 2 5.3.9 SIEM solution Point# 4	190	The solution should be a physical appliance form factor with following components: a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Data Management	The solution should be a Software / physical / Virtual server based including a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Advanced Data Platform	The solution should be a physical appliance form factor with following components: a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Data Management/Platform
Vol.2	349	Microfocus	Volume 2 5.3.9 SIEM solution Point# 5	190	There should be no limitation on number of devices to be supported. Any addition in no. of devices should have no cost impact on department.	There should be no limitation on number of devices to be supported as well flow like Nflow , J flow . Any addition in no. of devices should have no cost impact on department.	Tender conditions shall prevail
Vol.2	350	Microfocus	Volume 2 5.3.9 SIEM solution Point# 6	191	The SIEM & Log Monitoring solution should be from a different OEM than the Prevention Security solutions like F/W, IPS, HIPS, AV, DLP, and Encryption.	The SIEM & Log Monitoring solution should be from a different OEM than solutions like F/W, IPS, HIPS, AV, DLP, GRC, Packet capture, NBAD, Token solutions	Tender conditions shall prevail
Vol.2	351	Microfocus	Volume 2 5.3.9 SIEM solution Point# 8	191	Real time contextual information should be used at collection/normalization layer and be available at correlation layer where any events are matched during correlation rule processing. In addition , solution must provide contextual Hub at investigation layer for all relevant contextual awareness data regarding alerts/incidents available for any information asset like IP/Device etc.	Real time contextual information should be used at collection/normalization layer and also be available at correlation layer where any events are matched during correlation rule processing.	Tender conditions shall prevail
Vol.2	352	Microfocus	Volume 2 5.3.9 SIEM solution Point# 10	191	A solution should support minimum 10,000 EPS and scalable up to 20,000 EPS.	A solution should support minimum 10,000 Sustained/20000 Peak EPS as three tired solution and scalable up to 30,000 EPS.	Tender conditions shall prevail
Vol.2	353	Microfocus	Volume 2 5.3.9 SIEM solution Point# 11	191	Correlation Engine appliance should be consolidated in a purpose build appliance and should handle 20,000 EPS.	Solution must be sized for 20000 Peak EPS on physical or Virtual environment	Solution must be sized for 20000 EPS on physical or Virtual environment
Vol.2	354	Microfocus	Volume 2 5.3.9 SIEM solution Point# 13	191	The solution should be storing both raw logs as well as normalized logs. The same should be made available for analysis and report ing. The proposed solution should be sized to provide both raw logs and normalized logs with minimum 20 TB of storage.	The solution should be storing both raw logs as well as normalized logs at Log management layer which must support minimum 36TB storage and should have its own dash-boards , reports and search engine.	Tender conditions shall prevail
Vol.2	355	Microfocus	Volume 2 5.3.9 SIEM solution Point# 14	192	The monitoring should be cross device and cross vendor and be both out of the box and scalable to cover additional devices and applications as required	The monitoring should be cross device and cross vendor and be both out of the box and scalable to cover additional devices and applications as required. It must have agents for applications in case Application does not natively generate logs. It must not be limited to monitoring audit logs but agent must also monitor /block any attack on applications like SQL injection, XSS etc.	Tender conditions shall prevail
Vol.2	356	Microfocus	Volume 2 5.3.9 SIEM solution Point# 16	192	Should be able to provide complete packet-by-packet details pertaining to one or more session of interest including Session replay, page reconstruction, image views, artefact & raw packet and object extractions.	Should be able to provide complete Log-by-Log details pertaining Collected Logs	Clause deleted
Vol.2	357	Microfocus	Volume 2 5.3.9 SIEM solution Point# 17	192	Should be able to filter the captured packets based on layer-2 to layer-7 header information.	Should be able to filter unwanted logs at collection layer as well as log management layer to ensure only meaningful logs for analysis	Clause deleted
Vol.2	358	Microfocus	Volume 2 5.3.9 SIEM solution Point# 18	192	Should provide comprehensive deep packet inspection (DPI) to classify protocols & application.	Should provide comprehensive application security for web applications. Solution must come with application run time and dynamic testing tool , preferably from same OEM and should have dashboard in SIEM	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	359	Microfocus	Volume 2 5.3.9 SIEM solution Point# 19	192	The proposed solution must be able to provide the complete platform to perform Network forensics solutions.	The proposed solution must be able to provide the complete platform for SOC integrating with all key components which may be from different OEM	The proposed solution must be able to provide the complete platform to perform Network forensics solutions or SOC integration with all key components which may be from different OEM.
Vol.2	360	Microfocus	Volume 2 5.3.9 SIEM solution Point# 20	192	The solution must be able to detect malicious payload in network traffic • Detect and reconstruct files back to its original type	Request you to kindly Remove this clause	Clause deleted
Vol.2	361	Microfocus	Volume 2 5.3.9 SIEM solution Point# 21	192	The solution must have the ability to capture network traffic and import PCAP files using the same infrastructure.	Request you to kindly Remove this clause	Clause deleted
Vol.2	362	Microfocus	Volume 2 5.3.9 SIEM solution Point# 22	192	Bidder should propose separate hardware for SIEM solution.	The solution should be with a clear separation of the collection module, logging module and co-relation module. Log collection module should be in HA at DC must be free of cost software for which hardware will be provided by customer either as VM or Physical	SIEM solution should be dedicated appliance based or software based. In case of software based solution Bidders should include separate dedicated hardware in their proposed SIEM solution meeting the warranty requirement. Details of which should be mentioned in the bill of material.
Vol.2	363	Microfocus	Volume 2 5.3.9 SIEM solution	N/A	General Query	As per RFP high availability is required. Will this scenario will be applicable to only DC or both DC and DR.	Only Data Center applicable in this RFP.
Vol.2	364	Microfocus	Volume 2 5.3.9 SIEM solution	N/A	General Query	What will be the Log retention period.	Log retention period should be 1 year
Vol.1	365	Huawei	Vol 1 7.10.Manufacturers'/Producers' Authorization Form	82	We certify that we have not been blacklisted in any manner whatsoever by any of the Union Territory/ Central / State Government Department or Central/State Public Sector Units (PSUs) or Smart City in India <u>or Globally</u> on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as on bid submission date.	We understand that the clause of Blacklisting should be limited to India Only hence please remove the word " Globally " from the paragraph in MAF & change the clause as - " We certify that we have not been blacklisted in any manner whatsoever by any of the Union Territory/ Central / State Government Department or Central/State Public Sector Units (PSUs) or Smart City in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as on bid submission date"	Tender conditions shall prevail.
Vol.2	366	Huawei	Volume -2 , subsection - 5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port		4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	For 4 Port & 8 Port switch, the cost are similar, in general case scenarios the requirement for switch ports is more than 5-6 extending to radar, LPU, cameras and some other devices as required, For optimal use of resources and without adding additional costs. For customer advantage we suggest to modify the clause as - " 8 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs"	Tender conditions shall prevail
Vol.2	367	Huawei	Volume -2 , subsection - 5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port		Point 15 - Flash Memory - 1 GB or better	According to requirement of switch and standard industrial practice for outdoor applications required flash memory is 512 MB. Hence we request to modify the clause as - " Flash Memory - 512 MB or better "	Tender conditions shall prevail
Vol.2	368	Huawei	Volume -2 , subsection - 5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port		Point 18 - Voltage required - 48V to 57V (Able to run on both AC or DC supply)	The required switch is an outdoor rugged switch will be placed in an environment where AC power supply will be available we request you to modify the clause as - " Voltage required - 48V to 57V (Able to run on either AC or DC supply) "	Point 18 - Able to run on either AC or DC supply. In case of DC based solution Bidder have to provision DC source at their own cost.

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Vol.2	369	Huawei	Volume -2 , subsection - 5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port		Point 19 - Persistent PoE - Switch should have option of <u>redundant power solution</u> to ensure there is no break in connectivity and power to POE devices wherever required.	This is a restrictive clause for outdoor industrial rugged switch with redundant power supply, it is our request to remove this clause and make it optional or deleted.	Yes , As per RFP Persistent PoE Switch should have option of redundant power
Vol.2	370	Huawei	Volume -2 , subsection - 5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port		Point 22 - OEM Criteria - 1. OEM should be committed to India and should have a registered office, for at least the last 5 years with a charter to manufacture/design/sales/support of Carrier Grade Products. 2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001. 3. OEM should not be blacklisted in India or <u>Internationally</u> .	We understand that the clause should read as OEM should not be blacklisted in India Only. Global Blacklisting is not relevant here . For Instance ,concluded Jammu ITMS also changed the blacklisting clause & limit it to India only .Reference NIT No. – CEO/Smart City/2019-20/36 Corrigendum 3- Please refer Annexure 3 - Section 8.1 Page 53 of Vol1 & Respective corrigendum where the same requirement is changed to blacklisting in India only. Hence we request to modify the clause as - " 1. OEM should be committed to India and should have a registered office, for at least the last 5 years with a charter to manufacture/design/sales/support of Carrier Grade Products. 2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001. 3. OEM should not be blacklisted in India"	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent
Vol.2	371	Huawei	Volume -2 , subsection - 5.1.3.7 PoE+ Switches (Industrial - Rugged) - 8 Port		Point 18 - Voltage required - 48V to 57V (Able to run on both AC or DC supply)	The required switch is an outdoor rugged switch will be placed in an environment where AC power supply will be available we request you to modify the clause as - " Voltage required - 48V to 57V (Able to run on either AC or DC supply) "	Point 18 - Able to run on either AC or DC supply. In case of DC based solution Bidder have to provision DC source at their own cost.
Vol.2	372	Huawei	Volume -2 , subsection - 5.1.3.7 PoE+ Switches (Industrial - Rugged) - 8 Port		Point 19 - Persistent PoE - Switch should have option of <u>redundant power solution</u> to ensure there is no break in connectivity and power to POE devices wherever required.	This is a restrictive clause for outdoor industrial rugged switch with redundant power supply, it is our request to remove this clause and make it optional or deleted.	Yes , As per RFP Persistent PoE Switch should have option of redundant power
Vol.2	373	Huawei	Volume -2 , subsection - 5.1.3.7 PoE+ Switches (Industrial - Rugged) - 8 Port		Point 22 - OEM Criteria - 1. OEM should be committed to India and should have a registered office, for at least the last 5 years with a charter to manufacture/design/sales/support of Carrier Grade Products. 2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001. 3. OEM should not be blacklisted in India or <u>Internationally</u> .	We understand that the clause should read as OEM should not be blacklisted in India Only. Global Blacklisting is not relevant here . For Instance ,concluded Jammu ITMS also changed the blacklisting clause & limit it to India only .Reference NIT No. – CEO/Smart City/2019-20/36 Corrigendum 3- Please refer Annexure 3 - Section 8.1 Page 53 of Vol1 & Respective corrigendum where the same requirement is changed to blacklisting in India only. Hence we request to modify the clause as - " 1. OEM should be committed to India and should have a registered office, for at least the last 5 years with a charter to manufacture/design/sales/support of Carrier Grade Products. 2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001. 3. OEM should not be blacklisted in India"	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent

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Vol.2	374	Huawei	Volume -2 , subsection - 5.3.2 Data Center Spine & Leaf Switching Solution		3.2 Leaf Switch – i) 24x 1000BaseT Ports ii) 24 x 10GbE SFP+ Fiber ports. Populated with 24 numbers of 10 Gig SFP+ transceivers (multimode) iii) 2x40GbE QSFP+ ports for uplink connectivity to each Spine Switches. iv) additional 4x40GbE QSFP+ ports for future scalability.	The existing configuration of leaf switch is very specific and not a standard industrial practice, also according to design of DCN solution and keeping in mind the non blocking architecture required - it is highly suggested to ask for "Leaf Switch – i) 24x 1/10 GbE SFP+ Fiber Ports ii) 24 x 10GbE SFP+ Fiber ports. Populated with 24 numbers of 10 Gig SFP+ transceivers (multimode) iii) 2x40GbE QSFP+ ports for uplink connectivity to each Spine Switches. iv) additional 4x40GbE QSFP+ ports for future scalability. "	Tender conditions shall prevail
Vol.2	375	Huawei	Volume -2 , subsection - 5.3.2 Data Center Spine & Leaf Switching Solution		Point 6 - Should have 32 MB buffer	According to the requirement specified 22 MB of buffer is more than sufficient for solution. Hence we request to modify the clause as "Should have 22 MB buffer or better"	Tender conditions shall prevail
Vol.2	376	Huawei	Volume -2 , subsection - 5.3.2 Data Center Spine & Leaf Switching Solution		Point 11 - Support for 200,000 or more MAC addresses	The standard industrial practice across majority of OEMs is to provide 136,000 MAC addresses and is a standard. Hence we request to modify the clause as - "Support for 136,000 or more MAC addresses"	Support for 40,000 or more MAC addresses
Vol.2	377	Huawei	Volume -2 , subsection 5.5.3 Transmission Equipment Specifications (POP Sites), 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN		Point 18 - Support upto 4K VLANs	This is a restrictive clause hence we request to modify the clause as - "Support upto 3K VLANs"	Tender conditions shall prevail
Vol.2	378	Huawei	Volume -2 , subsection 5.5.3 Transmission Equipment Specifications (POP Sites), 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN		Point 9 - IP Route Table - Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	The specific requirement restricts multiple OEM to participate and bid, we request to modify the clause as "Switch should support minimum of 3K IPv4 routes and 2K IPv6 routes" for more and wider participation of OEMs	Tender conditions shall prevail
Vol.2	379	Huawei	Volume -2 , subsection 5.5.3 Transmission Equipment Specifications (POP Sites), 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN		Point 3 - MAC - 32k or more	According to requirement specified as 24 ports for downlink and 4 10G uplink the maximum requirement for mac entries required is 10k with the additional set we request to modify the clause as "MAC - 16k or more" for wider OEM participation	3. MAC - 16K or more MAC Addresses

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Vol.2	380	Huawei	Volume 2 , 5.5.3 Transmission Equipment Specifications (POP Sites) , 5.5.3.1 Core Router		Point 10 - Should have minimum 32GB RAM	With the requirements stated and calculated the required and standardised available RAM is 16 GB. Hence we request to modify the clause as "Should have minimum 16GB or more RAM "	Should have minimum 16GB RAM
Vol.2	381	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		3.2-The HCI should support connecting to external 3rd party Storage (FC,ISCSI,NFS) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI.	This is Vendor Specific Clause, each oem follows specific architecture this clause is not a standard followed by industry Hence we request to remove this clause.	The HCI should support connecting to external 3rd party Storage (FC/ iSCSI/NFS) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI."
Vol.2	382	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		5.1-The HCI solution should provide Inline Deduplication & compression across all storage tiers. Any license, hardware required to achieve the same should be provided from day 1.	This is Vendor Specific Clause, each oem follows specific architecture this clause is not a standard followed by industry Hence we request to remove this clause.	Clause Amended. Kindly read as, "5.1-The HCI solution should provide Inline Deduplication & compression. Any license, hardware required to achieve the same should be provided from day 1."
Vol.2	383	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		6.1-The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V & VMware.	Hyper-V is not a bare metal Hypervisor and we do support bare metal hypervisor to avoid any dependencies of Operating system. Also, in point 6.2, you have asked for bare metal hypervisor only. Request you to change the clause. Request Change to "The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V or VMware. "	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware or RedHat or KVM or AHV or Xen
Vol.2	384	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		6.4-the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hps solutions without the need for agents inside the virtual machines.	Can you please mention the endpoint security OEMs so that we can check the compatibility. If build the new system, Request to remove this clause	Clause deleted
Vol.2	385	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		6.5-Solution should include VM Management software. Provided Software shall also be able to manage existing VM inventory running on the same Hypervisor.	Please clarify the existing hypervisor make and version. If build the new system,Request to remove this clause	6.5-Solution should include VM Management software
Vol.2	386	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		6.7-The solution shall support provisioning across multi-hypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	Hyper-V is not a bare metal Hypervisor and we do support bare metal hypervisor to avoid any dependencies of Operating system. Also, in point 6.2 , you have asked for bare metal hypervisor only. Request you to change the clause. as - "The solution shall support provisioning across multi-hypervisor (e.g.: VMware ESXi 6.5 or higher and public cloud environments"	Tender conditions shall prevail
Vol.2	387	Huawei	Volume 2 5.3.12 Hyper Converged Infrastructure		6.8-The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs. Shall have the capability to install on multiple Hypervisor's like VMware & Hyper-V.	Hyper-V is not a bare metal Hypervisor and we do support bare metal hypervisor to avoid any dependencies of Operating system. Also, in point 6.2, you have asked for bare metal hypervisor only. Request you to change the clause. "The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs."	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs
Vol.2	388	Huawei	Volume 2 5.1.3.1 Dome CCTV Cameras		26-Certification:UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	BIS certificate is India standard certificate (majority OEMs inclusive indian ones follow India Industry standard),Suggest change to BIS and CE / UL / EN / FCC/ ROHS / ONVIF	Tender conditions shall prevail

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Vol.2	389	Huawei	Volume 2 5.1.3.1 Dome CCTV Cameras		28-OEM Criteria: <ul style="list-style-type: none"> • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB. 	Suggest remove this item since not open for vendors and only benefit specific vendor.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	390	Huawei	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras		14-Multiple Streams: Quad stream	This is Vendor Specific Clause, smart city case only two stream is enough. Suggest change to at least two Stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	391	Huawei	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras		27-Certification : UL, EN, CE, FCC, ONVIF profile S, G & T	BIS certificate is India standard certificate (majority OEMs inclusive indian ones follow India Industry standard),Suggest change to BIS and CE / UL / EN / FCC/ ROHS / ONVIF	Certification / UL / EN , CE / FCC, ONVIF profile S, G
Vol.2	392	Huawei	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras		29-OEM Criteria : <ul style="list-style-type: none"> • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB. 	Suggest remove this item since not open for vendors and only benefit specific vendor.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	393	Huawei	Volume 2 5.1.3.3 PTZ CCTV Cameras		11-Multiple Streams : Quad Stream	This is Vendor Specific Clause, smart city case only two stream is enough. Suggest change to at least two Stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	394	Huawei	Volume 2 5.1.3.3 PTZ CCTV Cameras		17-Tilt : Tilt: 3° ~ 90°, up to 300°/s	This is Vendor Specific Clause, Suggest change to up to 200°/s	Clause to be read as Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	395	Huawei	Volume 2 5.1.3.3 PTZ CCTV Cameras		32-Certification : UL, CE, FCC, RoHS, ONVIF Profile S, G & T	BIS certificate is India standard certificate (majority OEMs inclusive indian ones follow India Industry standard),Suggest change to BIS and CE / UL / EN / FCC/ ROHS / ONVIF	Tender conditions shall prevail
Vol.2	396	Huawei	Volume 2 5.1.3.3 PTZ CCTV Cameras		34-OEM Criteria : <ul style="list-style-type: none"> • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB. 	This is Vendor Specific Clause, Suggest remove this item since not open for vendors and only benefit specific vendor.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)

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Vol.2	397	Huawei	Volume 2 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems		s-Certification:UL/EN, CE, FCC	BIS certificate is India standard certificate (majority OEMs inclusive indian ones follow India Industry standard),Suggest change to BIS and CE / UL / EN / FCC/ ROHS / ONVIF	Tender conditions shall prevail
Vol.2	398	Huawei	Volume 2 5.4.2.6 ANPR HW Requirements		26-LED type:12 pieces dot matrix array LED or better	This is Vendor Specific Clause, Suggest remove it	Clause stands deleted
Vol.2	399	Huawei	Volume 2 5.4.2.6 ANPR HW Requirements		29-Networking Features:Bandwidth utilization, UPnP based port forwarding	About UPnP is Universal Plug and Play Propocol for low end mostly home devices, , it's not a manotory protocol for camera, and this function as a global standard is replaced by ONVIF. Suggest remove UPnP	Clause to be read as Networking Features: Bandwidth utilization, ONVIF Profile S, G and T
Vol.2	400	Huawei	Volume 2 5.4.2.6 ANPR HW Requirements		31-Protocol:IPv4, IPv6, TCP/IP, SNMP, HTTP, HTTPS, UPnP, RTSP, RTP, RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE and 802.1x	About UPnP is Universal Plug and Play Propocol for low end mostly home devices, , it's not a manotory protocol for camera, and this function as a global standard is replaced by ONVIF. Suggest remove UPnP	UPnP stands deleted Surveillance camera shall support onboard sign crypto processor and AES256 with encryption
Vol.2	401	Huawei	Volume 2 5.4.2.7 IR - Illuminator (In case of Separate IR)		8-Standards:UL, CE, FCC, EN	BIS certificate is India standard certificate (majority OEMs inclusive indian ones follow India Industry standard),Suggest change to " BIS and CE / UL / EN / FCC/ ROHS / ONVIF "	Tender conditions shall prevail
Vol.2	402	Huawei	Volume 2 5.4.2.7 IR - Illuminator (In case of Separate IR)		9-Approved Makes:The Camera and IR Illuminator shall be of the same make	To make the Tender more open(Best Camera Brand + Best IR Brand), Suggest remove this item	Clause to read as ANPR, RLVD with illuminator and Surveillance cameras shall be of same OEM
Vol.2	403	Huawei	Volume 2 5.4.3.7 Speed Detection Camera Specifications		9-Certifications:CE, FCC, EN/UL, RoHS	BIS certificate is India standard certificate (majority OEMs inclusive indian ones follow India Industry standard),Suggest change to BIS and CE / UL / EN / FCC/ ROHS / ONVIF	Tender conditions shall prevail
Vol.2	404	EnterpriseDB Software India Pvt. Ltd	VOL-2, Point 4.18	Page 40	Geographical Information System (GIS) platform	For GIS System which will be integrated with ICCC and for this Is there any new requirement of New database for GIS system or it will be integrated with existing database system ?	Tender conditions prevail refer- "If the map/layer/dataset is not readily available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc as the part of this project." Page- 40
Vol.2	405	EnterpriseDB Software India Pvt. Ltd	VOL-2, Point E	Page 230	The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases.	We request you to add the Enterprise Postgres Database in this list . Enterprise Postgres database has all Enterprise ready features and spatial database features (PostGIS) added on top of PostgreSQL with additional security, tools and performance. EnterpriseDB Postgres has also got multi model architecture that supports both SQL and NoSQL Types of Data. EnterpriseDB has got vast experience in delivering similar projects in the domestic / overseas market and Organizations across the Globe saving 60-70% of their commercial Database cost by moving to EDB Postgres.	The system should support Microsoft SQL/MySQL, PostgreSQL /Oracle databases.

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Vol.2	406	EnterpriseDB Software India Pvt. Ltd	Volume - 2, Point No. 5	Page 106	The VA should be able to use free open source DBMS (e.g. PostgreSQL, MySQL) for all database related tasks.	Free Open Source Software (FOSS) which is not recommended for a mission critical deployment which a Smart City Solutions cater and any such underlying freeware / community-edition/version may create a severe security risk, performance issues and affect your compliance badly . You need to make sure that you are getting the Enterprise Version of PostgreSQL Database with proper support from the OEM (EnterpriseDB Software India Pvt. Ltd.) and not from the System Integrator. EnterpriseDB have proper roadmap and support mechanism that ensure the PostgreSQL Database Software will be capable of enduring for the Project Lifecycle	Tender conditions shall prevail
Vol.1	407	Madras Security Printers Private Limited	Volume I 3.5. Pre-Qualification Criteria	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	We Request to consider the below criteria, "The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 5 years with minimum 200 numbers/ Cumulative of 1000 numbers in last 5 years of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India". (Justification: More than 1000 cameras in a single project in last 3 years will be restricting many bidders. Only bidders who awarded CCTV project shall be qualifying and so we are requesting to consider the requested criteria and allow to participate some competitive bidders)	Refer to AddendumVI
Vol.1	408	Madras Security Printers Private Limited	Volume I, 3.5. Pre-Qualification Criteria (Notes), Point no 1(c)	36	c) In case of ongoing projects with operations & maintenance scope, the completion certificate should specify successful execution and in-operation status of a part of the order meeting the requirement. To substantiate this, a certificate from the Competent Authority of the Client/ Chartered Accountant/ Statutory Auditor has to be provided.	We Request to consider the below criteria, "c) In case of ongoing projects, the project should have completed atleast 80% CAPEX. CA certificate/ Client certificate has to be submitted".(Justification: Many Smart city tenders floated in last three years are accepting 80% CAPEX project completion from Client/ CA. Since, many awarded projects in last two years are in Ongong stage and so we request you to consider the requested criteria)	Bidder to Refer Point 1.04 of Amendment 01
Vol.1	409	Madras Security Printers Private Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation- B1, City Surveillance Projects	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	We Request to consider the below criteria, "The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 10 Crores during last seven years (as on Bid Submission date) per project". (Justification: We request to consider the criteria which shall allow MSME companies to get participated as a Consortium partner)	Refer to AddendumVI
Vol.1	410	Madras Security Printers Private Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation- B2, Integrated Traffic Management System	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	We Request to consider the below criteria, "The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date)". (Justification: Both ATCS and ITMS in a single project restricts many companies to get participated. We requested you to consider any one criteria and allow us to provide more bidders) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	Refer to Addendum 7 (Sl. No. 21)
Vol.1	411	INTEC INFONET PVT. LTD.	Vol 1	Page 28, 2.29. Eligible Goods and Services, and OEM Criteria	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	In vol 2., it is mentioned as follows: 4) OEM undertaking that the quoted product will not become end of sale within next 12 months. 5) OEM undertaking that the quoted product will not become end of support/end of life for next 5 years. We feel this is the point which needs to be followed since Vol II is for scope of work and technical specifications. Please clarify	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."

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Vol.2	412	INTEC INFONET PVT. LTD.	Page 82, 4 Port POE switch, clause no. 5	Page 82, 4 Port POE switch, clause no. 5	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	6 x 10/100/1000 (PoE+ on all ports) + 2 x combo or dedicated Gigabit SFP, Switch should support Rugged SFPs and all the transceiver should be from the same OEM as the switch	Tender conditions shall prevail
Vol.2	413	INTEC INFONET PVT. LTD.	Page 82, 4 Port POE switch, clause no. 7	Page 82, 4 Port POE switch, clause no. 7	120 W or Better	180W or Better	Tender conditions shall prevail
Vol.2	414	INTEC INFONET PVT. LTD.	Page 82, 4 Port POE switch, clause no. 8	Page 82, 4 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 09 Mbps or better Switching capacity: 12 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 16 Gbps or better	Tender conditions shall prevail
Vol.2	415	INTEC INFONET PVT. LTD.	Page 82, 4 Port POE switch, clause no. 10	Page 82, 4 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 along with multicasting should be supported for future enhancements without changing the hardware.	This is minimum requirement, bidder can propose better solutions
Vol.2	416	INTEC INFONET PVT. LTD.	Page 83, 4 Port POE switch, clause no. 14	Page 83, 4 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	417	INTEC INFONET PVT. LTD.	Page 83, 4 Port POE switch, clause no. 17	Page 83, 4 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	418	INTEC INFONET PVT. LTD.	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail
Vol.2	419	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	420	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch, clause no. 19	Page 84, 4 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	421	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch, clause no. 25	Page 84, 4 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	422	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	423	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail

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Vol.2	424	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QOS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	425	INTEC INFONET PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	426	INTEC INFONET PVT. LTD.	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	427	INTEC INFONET PVT. LTD.	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	428	INTEC INFONET PVT. LTD.	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	429	INTEC INFONET PVT. LTD.	Page 85, 8 Port POE switch, clause no. 10	Page 85, 8 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 and multicast should be supported for future enhancements without changing the hardware.	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1
Vol.2	430	INTEC INFONET PVT. LTD.	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail
Vol.2	431	INTEC INFONET PVT. LTD.	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3af, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	432	INTEC INFONET PVT. LTD.	Page 86, 8 Port POE switch, clause no. 14	Page 86, 8 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	433	INTEC INFONET PVT. LTD.	Page 86, 8 Port POE switch, clause no. 17	Page 86, 8 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	434	INTEC INFONET PVT. LTD.	Page 86, 8 Port POE switch, clause no. 19	Page 86, 8 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	435	INTEC INFONET PVT. LTD.	Page 87, 8 Port POE switch, clause no. 25	Page 87, 8 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail

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Vol.2	436	INTEC INFONET PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	437	INTEC INFONET PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	438	INTEC INFONET PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QOS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	439	INTEC INFONET PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	440	INTEC INFONET PVT. LTD.	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.4	441	INTEC INFONET PVT. LTD.	BOQ-27684	Schedule-B, Serial No. 5.3.2	New Request and Clarification	The Internet router has been considered as only 1 in quantity in the Schedule B of the BOQ file. This lacks resiliency and becomes a single point of failure. Hence, we are requesting to increase the quantity to at least 2. Further, the specs in Vol. 2 has the specs for Internet switch and not as Internet Router, so we are assuming that it is a typo on the BOQ file and it should be Internet switch on both BOQ and specs of Vol. 2 of the RFP. Pls confirm on the same.	Tender conditions shall prevail
Vol.2	442	INTEC INFONET PVT. LTD.	Page 136, Internet Switch - L3, clause no. 9	Page 136, Internet Switch - L3, clause no. 9	Power supply:230V AC PSU	"Power supply:Redundant and field replaceable 230V AC PSU "	Tender conditions shall prevail
Vol.2	443	INTEC INFONET PVT. LTD.	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	444	INTEC INFONET PVT. LTD.	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	445	INTEC INFONET PVT. LTD.	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	446	INTEC INFONET PVT. LTD.	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	447	INTEC INFONET PVT. LTD.	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 2000 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	448	INTEC INFONET PVT. LTD.	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 50,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	449	INTEC INFONET PVT. LTD.	Page 168, Spine & Leaf Switch, clause no. 39	Page 168, Spine & Leaf Switch, clause no. 39	The solution must have virtualization feature.	The solution must have virtualization feature and should support at least 1000 VRFs	Tender conditions shall prevail
Vol.2	450	INTEC INFONET PVT. LTD.	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all OEMs are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	451	INTEC INFONET PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	452	INTEC INFONET PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1

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Vol.2	453	INTEC INFONET PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted
Vol.2	454	INTEC INFONET PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	455	INTEC INFONET PVT. LTD.	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	456	INTEC INFONET PVT. LTD.	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	457	INTEC INFONET PVT. LTD.	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	458	INTEC INFONET PVT. LTD.	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	459	INTEC INFONET PVT. LTD.	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	460	INTEC INFONET PVT. LTD.	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	461	INTEC INFONET PVT. LTD.	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	462	INTEC INFONET PVT. LTD.	Intranet Firewall with IPS	Intranet Firewall with IPS	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replaceable	Tender conditions shall prevail
Vol.2	463	INTEC INFONET PVT. LTD.	Vol 2+F46	Page no-184, Next generation Firewall, Clause No 4	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Suggestions in Justifications 10G interfaces are back compatible to 1G thus if network really has 1G requirement than 10G ports can be used there. Also for a 40G day 1 support means the network is 40G ready and the required number of 1G and 10G becomes redundant as the uplink and downlink can be on 40G and removed.	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	464	INTEC INFONET PVT. LTD.	Page no-185, Next generation Firewall, Clause No 22	Page no-185, Next generation Firewall, Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail

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Vol.2	465	INTEC INFONET PVT. LTD.	Next generation Firewall	Next generation Firewall	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replaceable	Tender conditions shall prevail
Vol.2	466	INTEC INFONET PVT. LTD.	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	467	INTEC INFONET PVT. LTD.	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	468	INTEC INFONET PVT. LTD.	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	469	INTEC INFONET PVT. LTD.	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to Addendum XII
Vol.2	470	INTEC INFONET PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Storage solution should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Tender conditions shall prevail
Vol.2	471	INTEC INFONET PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)
Vol.2	472	INTEC INFONET PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels 1, 6, 10 or equivalent Erasure Coding Configurations	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.
Vol.2	473	INTEC INFONET PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	474	INTEC INFONET PVT. LTD.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	475	INTEC INFONET PVT. LTD.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Storage shall have minimum front-end support for 16Gb and backend support for minimum 12Gb.	Each Storage controller/Node shall have minimum front-end (network) support for 25Gb and backend support for minimum 12Gb.	Clause deleted
Vol.2	476	INTEC INFONET PVT. LTD.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	All the necessary software (GUI Based) to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	477	INTEC INFONET PVT. LTD.	page No. 201, Storage Specifications	page No. 201, Storage Specifications	Additional parameter	Storage feature: The solution should provide inbuilt native deduplication and compression capabilities	Tender conditions shall prevail
Vol.2	478	INTEC INFONET PVT. LTD.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	479	INTEC INFONET PVT. LTD.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	The solution should be offered with redundancy of Compute, Hard disk and Connectivity.	The solution should be offered with one additional node for ensuring that there would be no performance degradation in case of 1 node failure.	Tender conditions shall prevail
Vol.2	480	INTEC INFONET PVT. LTD.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with minimum 800GB cache capacity additional to usable storage. Proposed HCI solution shall be able to scale twice the current mentioned capacity.	Tender conditions shall prevail
Vol.2	481	INTEC INFONET PVT. LTD.	Page No. 203, Hyper Converged Infrastructure (HCI)	Page No. 203, Hyper Converged Infrastructure (HCI)	Proposed solution shall be able to Track and manage firmware versions ,display & report inventory across all proposed Servers.	Proposed solution shall be able to centrally Track and manage firmware versions ,display & report inventory across all proposed Servers at DC & DR.	Tender conditions shall prevail
Vol.2	482	INTEC INFONET PVT. LTD.	L2 Switch for POP	L2 Switch for POP	Change Request	Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	483	INTEC INFONET PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 1	Page 302, L2 Switch for POP, Clause No. 1	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports. All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half duplex ports.	The device must support 18x 1GE+ 6 x 10GE.Considering the growth in traffic number of 10G interfaces should be more.18x1G interfaces are sufficient to connect IE swicthe ring.	The device must support 16x 1GE SFP, 4 x 10GE SFP+ ports. Should have future scalability for minimum 2x40Gbps interface. All proposed transceivers should be from same OEM.
Vol.2	484	INTEC INFONET PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 2	Page 302, L2 Switch for POP, Clause No. 2	Layer 2	The device should be Layer3 switch or Router with IP/MPLS capabilities.As per city network design,all IE switch ring will terminate on this switch/router. This will act as pre aggregatin or aggregation for ntwork.Having layer 3 and IP/MPLS capabilities on this will ensure that broadcast domain is limited and Servies like Layer3 ,Layer2 ,Multicast can be enabled from this node.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	485	INTEC INFONET PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 4	Page 302, L2 Switch for POP, Clause No. 4	Minimum 128Gbps Switching fabric capacity	Since the devcie will act as pre aggregation/Agregation device suggest to increase the throughput to 200Gbps.	Minimum 128Gbps Routing Throughput
Vol.2	486	INTEC INFONET PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 7	Page 302, L2 Switch for POP, Clause No. 7	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum of 64K IPv4/32K IPv6 routes or better

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Vol.2	487	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	All the devcies will deployed in filed and will require high temperature sustainablity.Request to increase the temperature to 0 to 65	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	488	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 9	Page 303, L2 Switch for POP, Clause No. 9	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	489	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	New features	Multicast will be one of the key feature as we intend to connect cameras and other appkaticins in future.The devices must support 4K Multicast routes to achieve the ultimate goal of city network.	Tender conditions shall prevail
Vol.2	490	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 10	Page 303, L2 Switch for POP, Clause No. 10	Packet Forwarding Rate should be 95 Mpps or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the Packet Forwarding Rate should be 200 Mpps or better	Clause deleted
Vol.2	491	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 18	Page 303, L2 Switch for POP, Clause No. 18	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	Jumbo frame standard is is 9000 MTU pls change it to 9000.	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet size or better
Vol.2	492	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 20	Page 303, L2 Switch for POP, Clause No. 20	Support Multicasting	The devices must suport multicast layer 3 VPN,PIM,PIM SSM,IGMP V1,V2,V3.	Clause 20. Support Multicasting with below features ready- i) IPv4 and IPv6 multicast ii) PIM-SM, PIM-SSM iii) IGMPv3, IGMP snooping iv) 4K Multicast Routes
Vol.2	493	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 22	Page 303, L2 Switch for POP, Clause No. 22	Should support Ring protection	The devcies must support all the ring protection mechanism like IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or IPFRR, MPLS-TE FRR,LFA remote and Local, TI-LFA, BFD with 3.3 msec to achieve ring protection within 50-ms.
Vol.2	494	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 28	Page 303, L2 Switch for POP, Clause No. 28	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	The devcies must support all the ring protection mechanism like G.8032, IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	495	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The devcies must support 2 Level HQOS for granular Quality of Service	Tender conditions shall prevail
Vol.2	496	INTEC INFONET PVT. LTD.	Page 304, L2 Switch for POP, Clause No. 39	Page 304, L2 Switch for POP, Clause No. 39	Should support 4 groups of RMON	RMON is very old methodology for network monitoring there are new protocols like Telemetry ,SNMP which should be allowed for better network managemnt and logging	Should support 4 groups of RMON or Telemetry ,SNMP
Vol.2	497	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The router/layer3 switch must support following layer3 proticools: 1.OSPF V2 and V3,ISIS 2.BGP (IPv4,VPNv4,IPv6) 3.MPLS LDP 4.Multicast VPN,Layer2 VPN,Layer3 VPN,VPLS 5.Segment routing 6.TI-LFA 7.EVPN 8.SR v6	Tender conditions shall prevail
Vol.2	498	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing FLex-algo should be supported to ensure each category of traffic is getting bandwidth as per their Latency and SLA requirement	Tender conditions shall prevail
Vol.2	499	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing Data Plane monitiring should be supported to ensure that traffic is not blackholed and not dropped due to network issues.	Tender conditions shall prevail
Vol.2	500	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The device must support minimum 8 label depth for Segment routing to work as desired.	Tender conditions shall prevail

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Vol.2	501	INTEC INFONET PVT. LTD.	Page 303, L2 Switch for POP.	Page 303, L2 Switch for POP.	Certification	The device series should be CE3.0 certified	Tender conditions shall prevail
Vol.2	502	INTEC INFONET PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards. The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	503	INTEC INFONET PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lambda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	504	INTEC INFONET PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 4	Page No. 299, DWDM/OTN, Clause No. 4	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card)	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	505	INTEC INFONET PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card. 100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	506	INTEC INFONET PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlex/ODU0, ODU1, FC, 1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	507	INTEC INFONET PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 7	Page No. 299, DWDM/OTN, Clause No. 7	The offered system should be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradable in service to carry 100 Gbit/s channels along with 10G channels.	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	508	INTEC INFONET PVT. LTD.	Page No. 300, DWDM/OTN, Clause No. 10	Page No. 300, DWDM/OTN, Clause No. 10	2) Relative humidity: Up to 90% at non-condensing for the DWDM.	Pls change the relative humidity to 85%.	Refer to Addendum VII (sl no 17)
Vol.2	509	INTEC INFONET PVT. LTD.	Page No. 300, DWDM/OTN, Clause No. 11	Page No. 300, DWDM/OTN, Clause No. 11	The attenuation per Km for fibre shall be taken as 0.25 db per Km. The link shall be designed with a fibre and OSNR margin of 3db.	We need a network/topology to design.	Refer to Addendum VII (sl no 17)
Vol.2	510	INTEC INFONET PVT. LTD.	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	511	INTEC INFONET PVT. LTD.	Page No. 295, Core Router, Clause No. 7	Page No. 295, Core Router, Clause No. 7	Should have a minimum capacity of 2Tbps	Should have a minimum capacity of 4 Tbps	Tender conditions shall prevail
Vol.2	512	INTEC INFONET PVT. LTD.	Page No. 295, Core Router, Clause No. 10	Page No. 295, Core Router, Clause No. 10	Should have minimum 32GB RAM	Should have minimum 24GB RAM from Day 1 with support to go upto 32GB for future scalability	Should have minimum 16GB RAM
Vol.2	513	INTEC INFONET PVT. LTD.	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	514	INTEC INFONET PVT. LTD.	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	515	INTEC INFONET PVT. LTD.	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workload refers to Containerised Applications or VM based Application along with Application stack workload. Please Confirm.	This is not part of ICCS stack but part of DC management toolset.
Vol.2	516	INTEC INFONET PVT. LTD.	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workloads that refer to automating business processes through events/ batch / streaming modes.e.g Business process in smart cities could refer to transfer of data from IoT devices to the BI layer. Please Confirm	This is not part of ICCS stack but part of DC management toolset.

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Vol.2	517	INTEC INFONET PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Since workloads are configured at unitary levels encompassing API's, procedures, scripts, applications- it is next to impossible to determine costs associated, Request you to please rephrase this as "The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into configuration of each workload"	This is not part of ICCS stack but part of DC management toolset.
Vol.2	518	INTEC INFONET PVT. LTD.	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	9. Should be additional wireless APs can be registered and configured	Request you to please move this ask from EMS section to Wireless Controller section, As Wireless APs are primarily configured and registered to Wireless Controller, NMS/EMS tool can monitor the fault and performance of network devices using SNMP.	Clause deleted
Vol.2	519	INTEC INFONET PVT. LTD.	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	11. Comprehensive event log provides network issue resolution. Solution should be inclusive with hardware, OS, patches, database and any other licenses for their monitoring etc.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications. Please confirm.	Tender conditions shall prevail
Vol.2	520	INTEC INFONET PVT. LTD.	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	134 It should have an integrated CMDB for strong Change Management capabilities. Should integrate with existing Helpdesk deployed.	Integrating with existing Helpdesk tool will restrict the participation, And ownership of integration with existing Helpdesk will be a challenge for bidder. It is suggested to remove this clause. Also, solution from Single OEM for monitoring and Helpdesk, will give seamless integration capabilities, Out of box Connectors, Better root cause navigation and Intelligent ticketing, better event enrichment and noise suppression. Bidder should be free to propose new Helpdesk ITIL 2011 based solution with single unified CMDB for better management.	Tender conditions shall prevail
Vol.2	521	INTEC INFONET PVT. LTD.	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	It is recommended, Server Automation solution should analyze servers for Patching, compliance with internal policies or industry standards, based on powerful compliance rules out-of-the-box. Are you also looking for such functionalities? Please Confirm	102. Configuration and patch management: Management platform must provide a tool which tracks and analyses hardware, database, OS, application server software configurations and patches. Bidder may provide separate tool to achieve the desired requirement. All the proposed tool should be integrated with EMS.
Vol.2	522	INTEC INFONET PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	201 The solution should provide workload automation that provides full stack visibility and control:- resources aware, Application aware, Database aware	It is recommended, Server Automation solution should allow administrators to configure and schedule tasks from a centralized console, including rolling out software, upgrading operating systems, executing commands remotely and targeting computers based on specific hardware and software attributes. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	523	INTEC INFONET PVT. LTD.	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	29. Should have ability to correlate events across the entire infrastructure components of SDC.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events. Please confirm.	29. Should have ability to correlate events across the proposed Data Center infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events.

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Vol.2	524	INTEC INFONET PVT. LTD.	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	125. Proposed incident tracking system would be ITIL 2011compliant	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Complete 10+ ITIL 2011 process flow for Incident, problem, Change and release, Asset and Service level Management. Please confirm.	Tender conditions shall prevail
Vol.2	525	INTEC INFONET PVT. LTD.	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	130. It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Helpdesk with Mobile based App so that all the tickets can be effectively manage and monitor for timely action by the Agent. Also, User can raise requests at their ease from Mobile App instead of login to Web URL. Please Confirm.	Tender conditions shall prevail
Vol.2	526	INTEC INFONET PVT. LTD.	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	9. Asset / Inventory Management	As a good practice, Asset and Inventory management data should be stored on Single CMDB, for effective management and mapping of Assets, same CMDB should be accessed by Helpdesk to any asset related raise incidents/tickets. The Common database will help in seamless tracking and management of assets. Are you looking for Common database or CMDB of helpdesk and Asset Management? Please Confirm	9. Asset / Inventory Management shall be stored on single CMDB.
Vol.2	527	INTEC INFONET PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended for smooth flow of automation process, "The solution should orchestrate the entire IT workload execution of jobs & processes automatically without manual intervention. It should have the ability to configure recovery of jobs in case of failure." Are you looking for such functionalities? Please Confirm.	This is not part of ICCC stack but part of DC management toolset.
Vol.2	528	INTEC INFONET PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should provide configurable Business workflows for tasks such as management of data applications. The solution should be able to use learning methods to forecast jobs by monitoring workflows. The Solution should map workflows to business services and their respective deadlines and allows for proactive alerting when a workflow is in danger of missing an SLA. Are you looking for such functionalities? Please Confirm	This is not part of ICCC stack but part of DC management toolset.
Vol.2	529	INTEC INFONET PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should have a consolidated view of all jobs and IT process workloads in a centralized dashboard. Are you looking for such functionalities? Please Confirm	This is not part of ICCC stack but part of DC management toolset.
Vol.2	530	INTEC INFONET PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	General Query	It is recommended, Server Automation solution should be able to scan all servers (Windows, Linux and Unix OS to be supported by Server Automation solution) with in the network for missing security patches and compliance. The detection shall be automated and shall trigger the patch through central system. Are you looking for such functionalities? Please Confirm	This is not part of ICCC stack but part of DC management toolset.
Vol.2	531	INTEC INFONET PVT. LTD.	Page 112.5.2.2.1 Integrated Command Control Platform	Page 112.5.2.2.1 Integrated Command Control Platform	5. The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.

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Vol.2	532	INTEC INFONET PVT. LTD.	Page 115,5.2.2.1 Integrated Command Control Platform	Page 115,5.2.2.1 Integrated Command Control Platform	48 Adapter studio must have capability to consume data from multiple sources with different communications such as web services, Web Sockets, FTP, Fileserver, MQTT, real-time streams, etc.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	533	INTEC INFONET PVT. LTD.	Page 252,5.4.3.5 System Management Requirements	Page 252,5.4.3.5 System Management Requirements	i) The system shall be compiled with automated File Transfer Protocol (FTP) software; this software will push generated speeding incident files to the central control room automatically as they are generated. The software will use the FTP protocol.	It is important that various interactions in the smart city processes necessitate a lot of file transfers. Also it is important that secure channels to send or receive files through HTTPS, SFTP methods. Are you looking for such functionalities? Please Confirm	Tender conditions shall prevail
Vol.2	534	INTEC INFONET PVT. LTD.	New Request	New Request		The OEM should provide the specific solution designing & Core implementation (OEM Low Level Design, DC Core Implementation) support to make sure that their supplied technology & products work as per the design objectives.	Tender conditions shall prevail
Vol.2	535	INTEC INFONET PVT. LTD.	New Request	New Request		Provide an Operations Support Manager for every year from OEM who is familiar with (Customer) business, processes, and technical support history to continually monitor customer technical support needs, track every open service request, and make sure that IT resources, both at OEM and within Customer organization, are aligned appropriately to resolve issues quickly and completely.	Tender conditions shall prevail
Vol.2	536	INTEC INFONET PVT. LTD.	(Page No. 24) 4.6.4 Miscellaneous:	(Page No. 24) 4.6.4 Miscellaneous:	Authority shall assist in obtaining all necessary go ahead, legal permissions, NOC (No Objection Certificate) from various departments to execute the project. SI shall have to identify and obtain necessary legal / statutory clearances for erecting the poles and installing cameras, for provisioning of the required power, etc. SI shall provide & manage all necessary paper work to pursue permission from respective authorities. No commercial/legal fees (except the RoW charges) shall be applicable to Authority for obtaining the necessary permissions. These shall be provisioned for by the SI in their financial bid.	It shall be Authority responsibility obtaining all necessary go ahead, legal permissions, NOC (No Objection Certificate) from various departments to execute the project. SI shall have to identify location for erecting the poles and installing cameras, for provisioning of the required power, etc. SI shall provide & manage all necessary paper work to Authority and project design . No commercial/legal fees (except the RoW charges) shall be applicable to Authority for obtaining the necessary permissions. These shall be provisioned for by the SI in their financial bid.	Tender conditions shall prevail
Vol.2	537	INTEC INFONET PVT. LTD.	(Page No. 24) 4.6.4 Miscellaneous:	(Page No. 24) 4.6.4 Miscellaneous:	SI shall ensure all the equipment's installed in the outdoor locations are vandal proof and in case the equipment's get damaged/stolen for reasons whatsoever, it shall repair/replace the same in the specified time as per SLAs at no extra cost to the Authority	If Equipment get dmed / stolen it shall not be the SI responsibility as petriog such a huge site is impossible.	Tender conditions shall prevail
Vol.2	538	INTEC INFONET PVT. LTD.	(Page No. 25) 4.7 Other Expectations from System Integrator (SI)	(Page No. 25) 4.7 Other Expectations from System Integrator (SI)	SI shall engage early in active consultations with the Authority, City Police and other key stakeholders to establish a clear and comprehensive project plan in line with the priorities of all project stakeholders and the project objectives	SI shall engage early in active consultations with the Authority to establish a comprehensive project plan in line with the priorities of all project stakeholders and the project objectives	Tender conditions shall prevail
Vol.2	539	INTEC INFONET PVT. LTD.	(Page No. 27) 4.7 Other Expectations from System Integrator (SI)	(Page No. 27) 4.7 Other Expectations from System Integrator (SI)	20. The SI is required to keep the preventive maintenance / corrective maintenance van for the complete O&M Period	Van Quantity and Fuel charge reimbursment	Tender conditions shall prevail
Vol.2	540	INTEC INFONET PVT. LTD.	(Page No. 28) 4.9 Design, Supply, Installation & Commissioning of the Field Equipment	(Page No. 28) 4.9 Design, Supply, Installation & Commissioning of the Field Equipment	DC & DR and other IT infrastructure required for successful operations of the ICCC project.	More clarity on DR.	For this RFP Only DC required, Which will be co-hosted at State Data-Center (SDC) Dispur Assam.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	541	INTEC INFONET PVT. LTD.	(Page No. 30) 4.10 City Surveillance System – (CCTV Camera)	(Page No. 30) 4.10 City Surveillance System – (CCTV Camera)	Collusion preventive barriers around the junction box & pole foundation in case it's installed in collision prone place.	It could be separate line entry item in Bill of material.	This will be included in junction Box and Pole price.
Vol.2	542	INTEC INFONET PVT. LTD.	(Page No. 37) 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	(Page No. 37) 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	Power cabinet: This cabinet shall house the electricity meter, online UPS system and the redundant power supply system	Power cabinet: This cabinet shall house online UPS system and the redundant power supply system	Tender conditions shall prevail
Vol.2	543	INTEC INFONET PVT. LTD.	(Page No. 37) 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	(Page No. 37) 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	7. The Junction Box for UPS with Battery bank needs to be considered separately	Same junction shall be used for housing all the Equipment.	Deleted the clause no. 4.14 Sr, No. 7. The Junction Box for UPS with Battery bank needs to be considered separately. Bidder can Propose the Single Junction box that can be sufficient to house all power equipments, battery and control/networking unit in a single box.
Vol.2	544	INTEC INFONET PVT. LTD.	(Page No. 39) 4.16 Civil and Electrical Works	(Page No. 39) 4.16 Civil and Electrical Works	Preparation of concrete foundation for MS-Poles & cantilevers	Foundation details is not specified properly (Diagram)	As per bidder (SI) Design
Vol.2	545	INTEC INFONET PVT. LTD.	(Page No. 44) 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	(Page No. 44) 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	SI will also deploy the Access Network OFC (POP Sites to Field Devices) as per OFC Deployment Specification.	Network topology need to be specified for more clarity.	SI will design the network topology.
Vol.2	546	INTEC INFONET PVT. LTD.	(Page No. 44) 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	(Page No. 44) 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	15. ROW Permission will be taken by the SI and GSCL will assist the SI for any paperwork related to ROW permission. Cost related to this will be directly paid to ROW issuing authority by GSCL.	15. ROW Permission will be taken by the GSCL and SI will assist for any paperwork related to ROW permission. Cost related to this will be directly paid to ROW issuing authority by GSCL.	Tender conditions shall prevail
Vol.2	547	INTEC INFONET PVT. LTD.	(Page No. 135) 5.2.6 Electrical Cabling Components	(Page No. 135) 5.2.6 Electrical Cabling Components	3 Standards All electrical components shall be design manufactured and tested in accordance with relevant Indian standards IEC's	Specification are insufficient to design the electrical cabling work.	Tender conditions shall prevail
Vol.2	548	INTEC INFONET PVT. LTD.	(Page No. 208) 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	(Page No. 208) 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	Pedestrian Actuated Traffic Control Signals at places where a large number of people cross the road with heavy vehicular traffic (near Schools, Hospitals, Shopping Centers, places of worship and similar other establishments)	Pedestrian signal shall be installed on the same red light pole or separate please elaborate.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	549	INTEC INFONET PVT. LTD.	(Page No. 228) 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	(Page No. 228) 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	Hot dip galvanized pole with silver coating of 86 micron as per IS:2629 min 10 cm diameter pole and suitable bottom and top thick HT plate along with base plate size 30x30x15 cms suitable for wind speed 120 km/hr with / without suitable arm bracket and with J type foundation bolts. Fabrication in accordance with IS 2713 (1980)	Specification of pole is not mentioned properly. Foundation design and technical specs. Not defined	as per RFP and Ground clearance should be 6 Meter
Vol.2	550	INTEC INFONET PVT. LTD.	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	4 Mounting structure	b)It should be capable to withstand high wind speeds and for structural safety, the successful bidder has to provide structural safety certificate from qualified structural engineers approved/ certified by Govt.	Structural engineers certificate shall not be compulsory for mounting structure of pole except BTS tower.	Tender conditions shall prevail
Vol.2	551	INTEC INFONET PVT. LTD.	5 On site-out station processing unit communication & Electrical Interface (Junction Box)	5 On site-out station processing unit communication & Electrical Interface (Junction Box)	The housing(s) should be capable of withstanding vandalism and harsh weather conditions and should meet IP66, IK10 standards (certified).	The housing(s) should be capable of withstanding vandalism and harsh weather conditions and should meet IP55, IK10 standards (certified).	The housing(s) should be capable of withstanding vandalism and harsh weather conditions and should meet IP65, IK10 standards (certified).
Vol.2	552	INTEC INFONET PVT. LTD.	5.5.4 Wireless RF Connectivity	5.5.4 Wireless RF Connectivity	Bidder shall propose the best solutions of wireless RF connectivity at all ITMS Crossing (64-Nos.) Locations in Guwahati. Bidder to take care of solutions with future upgradability and inter-portability and cost-effective (Either on Rental Basis or own Deployment Basis) solutions for project life cycle	BTS Tower height and foundation detail with other structural detail not mentioned in the RFP	Tender conditions shall prevail
Vol.2	553	INTEC INFONET PVT. LTD.	F) Bridge & Culvert Crossing	F) Bridge & Culvert Crossing	C. In case of River/Nala with water flow, the water path may be crossed from riverbed by diverting water with temporary bunds.	In case of river/ Nala with water flow procedure D) of page no. 275 shall be followed.	Tender conditions shall prevail
Vol.2	554	INTEC INFONET PVT. LTD.	5.2.12 UPS 50 KVA at ICCC	5.2.12 UPS 50 KVA at ICCC	50 KVA - modular UPS with external Isolation Transformer and 60 Mins Power Backup	UPS power rating shall be based on load requirement of ICCC. Hence provision of higher rating should be incorporated.	Tender conditions shall prevail
Vol.2	555	INTEC INFONET PVT. LTD.	5.2.16 Diesel Generator Set (DG) 75 KVA - ICCC	5.2.16 Diesel Generator Set (DG) 75 KVA - ICCC	2. Capacity 75 KVA	DG power rating shall be based on load requirement of ICCC. Hence provision of higher rating should be incorporated.	Tender conditions shall prevail
Vol.2	556	INTEC INFONET PVT. LTD.	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	5.4.2	UPS with battery backup - 50 KVA Nos - 1	UPS with battery backup - 50 KVA Nos - 2	UPS minimum 50 KVA and bidder to consider as per the load requirement
Vol.2	557	INTEC INFONET PVT. LTD.	4. Integration with provisions available for Network Connectivity within the city which includes:	4. Integration with provisions available for Network Connectivity within the city which includes:	1-Integration of all CCTV Surveillance Components and ITMS (ATSC) including the ANPR, RLVD, SVD system with central Monitoring station (ICCC) and State Data Centre (SDC) with suitable optical network.	1-Integration of all CCTV Surveillance Components and ITMS (ATSC) including the ANPR, RLVD, SVD system with central Monitoring station (ICCC) and State Data Centre (SDC) with suitable optical network depending on the compatibility of the existing system.	Tender conditions shall prevail
Vol.2	558	INTEC INFONET PVT. LTD.	Temporary Phase	Temporary Phase	In this phase, GSCL will provide a space approximately 5000 SQF for temporary ICCC at BSNL Bhawan (Administrative Building) at Cotton Road, Pan Bazar, Guwahati. Space for Data Centre will be provided in State Data Centre through the Department of Information & Technology, Govt of Assam.	Designing and dimensions of the Existing ICCC and upcoming ICCC Permanent building is required to better understanding of the implementation of ICCC.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	559	INTEC INFONET PVT. LTD.	4.6.1 Survey And Commencement of Works	4.6.1 Survey And Commencement of Works	Prior to starting the site clearance, the SI shall carry out survey of field locations as specified in Annexure VIII under section of 12.0, for buildings, structures, fences, UG utilities' – Power Cables & Water Pipelines, OFC NW of other Operators	Prior to starting the site clearance, the GSCL shall issue letter to the concerned authority and civil body to engage in work execution with SI so that mishappening and damage to the existing utilities could be averted in due course. However, other network operator shall align there representative and timely point out utilities in the route with details. SI shall not be obliged for other NW operator utilities finding.	Tender conditions shall prevail
Vol.2	560	INTEC INFONET PVT. LTD.	4.6.3 Electrical Works and Power Supply	4.6.3 Electrical Works and Power Supply	The SI shall directly interact with APDCL for provision of mains power supply at all locations for ICCC field systems. The SI shall be responsible to pay the electricity bills including connection charge, meter charge, recurring charges etc. to the APDCL directly. SI shall have to submit the challan of bill submission to GSCL. GSCL will reimburse the amount deposited by the SI after verification in next billing cycle.	The SI shall directly interact with APDCL for provision of mains power supply at all locations for ICCC field systems. The SI shall be responsible to pay the electricity bills including connection charge, meter charge, recurring charges etc. to the APDCL directly. SI shall have to submit the requirement to GSCL wherever electric meter is required.	Tender conditions shall prevail
Vol.2	561	INTEC INFONET PVT. LTD.	4.16 Civil and Electrical Works	4.16 Civil and Electrical Works	Electricity Charges for implementation and O&M period for all the systems has to be borne by the SI and cost of electricity will be reimbursed on monthly basis to SI by GSCL.	Electricity Charges for implementation and O&M period for all the systems has to be borne by the GSCL	Yes, Charges for implementation and O&M period for all the systems has to be borne by the GSCL .
Vol.2	562	INTEC INFONET PVT. LTD.	4.23 Installation & Commissioning of a Sample Site – Proof of Concept (POC)	4.23 Installation & Commissioning of a Sample Site – Proof of Concept (POC)	The SI shall complete the installation work at the identified sample sites from all the aspects and then request the Authority to conduct a detailed assessment of all the quality parameters that it expects at the sample site. Following aspects shall be assessed thoroughly: Point a) to : Point i)	For POC Completing Site in all respect is not possible. This clause shall be deleted considering the bulk of work which SI shall execute maintaining teamlines.	As per RFP However the Authority has the right to change the method of POC based on the situation & requirement
Vol.2	563	INTEC INFONET PVT. LTD.	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	Pedestrian Actuated Traffic Control Signals at places where a large number of people cross the road with heavy vehicular traffic (near Schools, Hospitals, Shopping Centers, places of worship and similar other establishments).	In this clause Road lines like zebra crossing , signal crossing etc. shall be added which will be drawn before execution to mark the location of pedestrian, ATCS and RLVD pole location	Tender conditions prevail Before implementation it is mandatory for any road to have these lines drawn. These points will be identified by the SI during the survey, subsequent for-implementation drawings will be approved on merit before grounding.
Vol.2	564	INTEC INFONET PVT. LTD.	5.5.2.6 HDPE Duct (PLB Type)	5.5.2.6 HDPE Duct (PLB Type)	Size 40 mm outer dia & 32 mm internal dia	Size 40 mm. outer dia & 33 mm. internal dia	Tender conditions shall prevail
Vol.2	565	INTEC INFONET PVT. LTD.	5.5.2.1 Under-Ground (UG) – OFC Specifications	5.5.2.1 Under-Ground (UG) – OFC Specifications	Min 1200 mm depth at Entry and Exit Pits or normal soil and depth should be b/w 1200 mm to 2000 mm HDD travelling path.	Min 1200 mm depth at Entry and Exit Pits or normal soil and depth should be b/w 1200 mm to 2000 mm HDD travelling path. Maximum work shall be carried out by HDD means except where feasibility is not possible open trench shall be done.	Tender conditions shall prevail
Vol.2	566	INTEC INFONET PVT. LTD.	5.5.4 Wireless RF Connectivity	5.5.4 Wireless RF Connectivity	Connectivity between BTS Towers to Data Centre will be fiber optics cables (OFC) and there is no any space available (or permission granted) at State Data centre to erect BTS tower	More clarity on fiber topology as per existig and new work to be done under this RFP.	Tender conditions shall prevail
Vol.2	567	INTEC INFONET PVT. LTD.	5.5.2.2 Over-Head (OH) - OFC	5.5.2.2 Over-Head (OH) - OFC	As a Smart City we discourage to deploy the OFC on overhead due to frequent OFC cut on OH and aesthetic looks. If there are no any options to deploy the UG-OFC then we consider the overhead OFC deployment.	Please check to OEM for Aerial and gorund OFC.	Tender conditions shall prevail
Vol.2	568	INTEC INFONET PVT. LTD.	4.26 Project Timelines	4.26 Project Timelines	12 months post issuance of request order	Timelines is very less...to implement scah a huge horizon project.	Tender conditions shall prevail
Vol.1	569	INTEC INFONET PVT. LTD.	Vol 1	Project Key Personnel	Except for Project Director, all other proposed positions shall be Onsite throughout the entire project implementation phase.	It should as per the requirement of the project	Tender conditions shall prevail.
Vol.2	570	INTEC INFONET PVT. LTD.	Gen.	power supply	The SI shall directly interact with APDCL for provision of mains power supply at all locations for ICCC field systems.	It should not be in the scope of Bidder...	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	571	INTEC INFONET PVT. LTD.	statutory clearances	statutory clearances	SI shall have to identify and obtain necessary legal / statutory clearances for erecting the poles and installing cameras, for provisioning of the required power, etc. SI shall provide & manage all necessary paper work to pursue permission from respective authorities. No commercial/legal fees (except the RoW charges) shall be applicable to Authority for obtaining the necessary permissions. These shall be provisioned for by the SI in their financial bid.	It should not be in the scope of Bidder...	Tender conditions shall prevail
Vol.2	572	INTEC INFONET PVT. LTD.	ROW Permission	ROW Permission	ROW Permission will be taken by the SI and GSCL will assist the SI for any paperwork related to ROW permission. Cost related to this will be directly paid to ROW issuing authority by GSCL. 16.	ROW Permission should not be in the scope of SI	Tender conditions shall prevail
Vol.2	573	INTEC INFONET PVT. LTD.	Sign Off Procedure	Sign Off Procedure	Sign Off Procedure and Invoice Processing Process is not defined.	Sign Off Procedure and Invoice Processing Process is not defined in the tender.	Tender conditions shall prevail
Vol.2	574	Esri India Technologies Limited	Vol-2 4.3 Assessment, Site Survey and Project Plan	Page 16	5. Location of all field systems and components proposed at the junctions, (KML /KMZ file plotted on GIS platform like google earth etc.)	It is suggested to add .shp (shape) file geodatabase file format, as it is widely accepted open GIS data format and facilitates better analytics capability over the system. Guwahati located within a crescent shaped basin, surrounded by lofty hills, Where Depth and Height information is also very important for Assessment, Site Survey and Project Plan. Is GSCL looking for GIS capability to map all field systems and components in 3D to view on Smart 3D City Web GIS environment?	Location of all field systems and components proposed at the junctions, (KML /KMZ / .SHP file plotted on GIS platform like google earth etc.)
Vol.2	575	Esri India Technologies Limited	Vol-2 4.4 Documents/ Drawings Submission after Award of Contract	Page 16	Stage 1: Design engineering: d) System and location wise Equipment list along with GIS coordinates.	GIS coordinates should be provided with Z (Depth/Height) information, as it is the key component of any smart city for GIS mapping. Kindly confirm.	Design engineering: d) System and location wise Equipment list along with GIS coordinates. GIS coordinates should be provided with Z (Depth/Height) information, as it is the key component of any smart city for GIS mapping.
Vol.2	576	Esri India Technologies Limited	Vol-2 4.5 Finalization of Detailed Technical Architecture:	Page 21	13. GIS Integration- SI shall undertake detail assessment for integration of the Surveillance System and all other components with the Geographical Information System (GIS). SI is required to carry out the seamless integration to ensure ease of use of GIS in the Dashboards in Command Control Centre. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. SI is to check the availability of such data and its suitability for the project. SI is required to update GIS maps from time to time.	Please provide the list of data available with GSCL and which format it is stored in. Are there any existing GIS systems available with GSCL where such data is residing?	Tender conditions prevail GIS based shape files of concerned layers are available with stakeholder agencies pertaining to the Master Plan 2025 of GMDA (https://gmda.assam.gov.in/portlets/master-plan-guwahati-2025-0); Layers- shape files (ward boundaries etc, building footprints etc) pertaining to the jurisdiction of Guwahati Municipal Corporation are available with concerned stakeholder agencies (https://gmc.assam.gov.in/); After the SI is selected, during the initial survey by the SI for existing inventory, the SI will have to approach the stakeholders mentioned above- as well as the Police Department, Transport Department, APDCL etc in regards to availability of GIS datasets. GSCL will facilitate.
Vol.2	577	Esri India Technologies Limited	Vol-2 4.18 Geographical Information System (GIS) platform	Page 40	SI shall provide GIS system and integrate it with ICCC or other systems. The SI will have to consult with GSCL and confirm what all GIS map/layer/dataset is available with the city. If the map/layer/dataset is not already available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc.	Kindly clarify the broad cross-functional requirements and Data Model for storing the spatial & nonspatial data with ICCC and other systems.	Tender conditions prevail SI is free to propose based on the functional requirement that has been listed as well as from the point of view of the datasets available and to be generated.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	578	Esri India Technologies Limited	Vol-2 4.18 Geographical Information System (GIS) platform	Page 41	1 CITY Surveillance • CCTV Camera Locations on GIS Map • Locations of Data Centre • Locations of ICCC • Backbone Network Connectivity Details including POP sites	Kindly clarify as to whether the System Integrator has to supply the following GIS capabilities for City Surveillance with CCTV: • CCTV Camera Live feed on map. • A viewshed indicates all locations that can be seen from a specified CCTV camera point. • Line-of-sight analysis immediately indicates whether a target can be seen from a specific CCTV camera location. • CCTV Camera Locations populated with camera properties such as direction, camera angle and viewing distances.	Tender conditions prevail PI refer to-"The functional requirements and technical specifications provided in this section are indicative and carry guiding rule. The SI is free to offer products and solutions which meet requirements of the RFP focussing on the outcome, future scalability, security, reliability and adherence to specified SLA under this RFP, in line with applicable standards, and best practices adopted in the industry. The SI is encouraged to design an Optimised solution which is technically superior, innovative, proven, better in terms of functionality and is cost effective....." Page 41 and 42 of Vol II
Vol.2	579	Esri India Technologies Limited	Vol-2 4.18 Geographical Information System (GIS) platform	Page 41	6 Disaster Management Location of highest Disaster Impact Areas in the city 7 Emergency Management (Geofence) • Location of fire stations • Amenities at each Fire Station • Location of Health centers/Hospital • Amenities at each Health Centre/Hospital • Type of fleet vehicle • Location of Water Assets	Kindly clarify as to whether the System Integrator has to provide the following GIS capabilities for Disaster management as it is very dynamic thing: • Disaster Response: Highlighting nearest hospitals, emergency response centers, schools, police stations, fire stations, in case of any disaster over map. • Emergency Response: Identifying the emergency response routes over road network for any emergency movement from any location in the city to airport or hospital and identifying list of signals that will have to be crossed.	Tender conditions prevail. The mentioned analytical algorithms- in terms of Disaster Location and Emergency Response are very basic of any GIS system. The effectiveness of a GIS system is measured based on the dependability of the outputs generated which also depends the inputs by the user. The GIS system should be capable of displaying the shortest and best routes for service planning to be adopted by emergency services in case of disasters; on the dashboard in the ICCC.
Vol.2	580	Esri India Technologies Limited	Vol-2 5.1.2.5 Other General Requirements	Page 71	d) SI shall be required to provide a standardized Mobile Application to integrate smart phones and tablets for 2-way communication with the Surveillance System in a secure manner.....uploading of video / pictures central VMS, Location based GIS Map access, tagging of mobile device/location information for all relevant functionalities.	Kindly clarify the following queries. This would require to prepare system architecture. 1) Tentative total number of mobile users. 2) The tentative number of mobile users who simultaneously access the data. 3) Tracking and tracing facility in the mobile phone has to be provided? 4) Whether app shall be compatible with Android/iOS and shall support majority handsets available with inbuilt GPS? 5) Integration of live traffic feed is to be done?	1. 1000 Nos. 2-500, 3. Not Applicable 4. Yes, Tender condition shall prevailed. 5. Yes

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	581	Esri India Technologies Limited	Vol-2 5.2.2.1 Integrated Command Control Platform	Page 112	10. Platform must provide multiple options to visualize geo-spatial, operational and metrics data	<p>Kindly clarify as to whether GSCDL would provide multiple options to visualize Geo-spatial, operational and metrics data considering the following line of items or any others:</p> <p>Generic Tools</p> <p>a) Attribute table—Displays a tabular view of operational layers' attributes. Currently, layers from a map service, feature service, and feature collection in the map are supported.</p> <p>b)Coordinate—Displays coordinates in the current map projection when moving the pointer on the map or in other coordinate systems by clicking the map.</p> <p>c)Extent Navigate— allows you to navigate the map to its previous or next extent.</p> <p>d)Home Button—Click to zoom to the map's initial extent.</p> <p>e)Incident Analysis—defines an area of interest and notes what's happening around the area, such as current weather, demographic information, and features close to the area.</p> <p>f)My Location—detects your physical location and zooms to it on the map.</p> <p>g)Overview Map—shows the current spatial extent of the map display as a gray rectangle relative to the entire spatial extent of the base map service.</p> <p>h)Scale bar—Displays a scale bar on the map.</p> <p>i)Search—Replaces the existing Geocoder widget with support for searching and suggestions on multiple sources.</p> <p>j)Situation Awareness—allows you to locate an incident on the map and analyze information from different feature layers within a specified incident area.</p> <p>k)Splash—Displays content on the splash screen.</p> <p>l)Summary—dynamically summarizes numeric attributes for features based on the map extent.</p> <p>m)Swipe—Shows a portion of a layer or layers on top of the map.</p> <p>n)Time Slider—Visualizes content within a map that contains time-aware layers.</p> <p>o)Zoom Slider—Provides interactive zoom controls in the map display.</p> <p>p)About—provides information about your app.</p> <p>q)Add Data—Enables end users to add data to the map by searching for layers in ArcGIS Online or Portal for ArcGIS content, entering URLs, or uploading local files.</p> <p>r)Analysis—contains a number of tasks that allow you to perform common spatial analyses on your hosted data.</p> <p>s)Base map Gallery—Presents a gallery of base maps and allows you to select one.Batch Attribute Editor—allows you to select features and update common attributes at once.</p> <p><input type="checkbox"/>Bookmark—Spatial bookmarks for quick navigation.</p> <p><input type="checkbox"/>Chart—Displays charts for selected features.</p> <p><input type="checkbox"/>Directions—Calculates and displays directions between two or more locations.</p> <p><input type="checkbox"/>District Lookup—allows you to find a point feature related to a selected polygon, view detailed information about the features, and get directions to the selected point feature.</p> <p><input type="checkbox"/>Draw—Draws basic graphics and text on the map.</p> <p><input type="checkbox"/>Filter— allows you to limit the visibility of features in a layer.</p> <p><input type="checkbox"/>Edit—Provides tools to modify features in editable layers.</p> <p><input type="checkbox"/>Geo-Lookup—enriches a list of latitude and longitude points from a CSV file against polygon layers on the map.</p> <p><input type="checkbox"/>Geo-processing—allows you to use any task from geo-processing services.</p> <p><input type="checkbox"/>Group Filter—applies a filter on the map based on one or more layers in the map.</p> <p><input type="checkbox"/>Info Summary—provides a count of features contained in the current map extent for each layer specified.</p> <p><input type="checkbox"/>Layer List—Displays a list of operational layers in the app.</p> <p><input type="checkbox"/>Legend—displays a legend for the visible layers in the map.</p> <p><input type="checkbox"/>Measurement—allows you to measure the area of a polygon, length of a line, or find the coordinates of a point.</p> <p><input type="checkbox"/>Near Me—Allows you to find features within a buffer of a defined address or location, view more detailed information about those features, and get directions to the selected feature</p> <p><input type="checkbox"/>Oblique Viewer—Displays images in a native coordinate system using an image coordinate system.</p> <p><input type="checkbox"/>Print—Advanced or basic printing of the current map.</p> <p><input type="checkbox"/>Query—Query information from operational layers by executing a predefined query.</p> <p><input type="checkbox"/>Related Table Charts—Allows you to chart (bar, pie or polar chart) values from a related table of a feature layer.</p> <p><input type="checkbox"/>Report Feature—Enables you to collect and manage data quality feedback from users.</p> <p><input type="checkbox"/>Reviewer Dashboard—Displays data quality result statistics as infographics to summarize data quality issues identified in your GIS data.</p> <p><input type="checkbox"/>Select—Enables you to interactively select features on the map and take the actions on the selected features.</p> <p><input type="checkbox"/>Share—allows you to share an app by posting it to your social media account, sending an email with a link, or embedding it in a website or blog. It also provides an easy way to define URL parameters for the app.</p> <p><input type="checkbox"/>Smart Editor—Extends the Edit widget with the more features, such as the ability to perform attribute editing in the panel instead of in the pop-up.</p>	Tender conditions prevail.PI refer to response in SL no 579

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Vol.2	582	Esri India Technologies Limited	5.2.2.1 Integrated Command Control Platform	Page 113	18 Platform must provide ability to support different geo spatial formats from commercial and open geospatial consortium standards like WMS, KML, SHP, City GML.	Formats provided here do not support relational data model and shall limit the overall functionality. It is recommended to ask for a file based geodatabase like .MDB and .GDB	Tender conditions shall prevail
Vol.2	583	Esri India Technologies Limited	5.2.2.1 Integrated Command Control Platform	Page 117	74 Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	We suggest that the OEMs should submit a certificate such as the latest Gartner or Forrester Report for GIS Platform/Software for quality and reputation concerns. Kindly include the same to get best of the OEMs for your smart cities.	This clause is deleted
Vol.2	584	Esri India Technologies Limited	Vol-2 5.2.2.1 Integrated Command Control Platform	Page 121	138 It shall provide complete view of sensors, facilities, video streams and alarms in an easy-to-use and intuitive GIS-enabled graphical interface with a powerful workflow and business logic engine.	Please clarify as to whether GSCDL is also looking for capabilities to feeds for social media (Twitter Waze), Automatic Vehicle Location (AVL) (Geotab NMEA 0183 Sierra Wireless RAP Verizon Connect), public transit (GTFS Realtime), message brokers (ActiveMQ MQTT), and more.	Tender conditions shall prevail
Vol.2	585	Esri India Technologies Limited	Vol-2 5.3.13 GIS Map for Guwahati City	Page 205	v. Land-Cover o Green areas o Open Areas o Water bodies	Pls clarify as to whether system Integrator has to provide image processing capabilities with free access to Landsat 8 Image Services with 30-meter spatial resolution and Sentinel-2 multi-spectral Image Services at 10-meter resolution for land use and Land cover analysis?	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	586	Esri India Technologies Limited	Vol-2 5.3.13 GIS Map for Guwahati City	Page 205	• the system shall support clipping and/or downloading of raster and vector data by authorized users.	Is the Smart City also looking for following capabilities, Kindly confirm: Image interpretation and exploitation. Creation of information products from imagery. Advanced feature interpretation and measurements from imagery. Detailed feature compilation and measurement on stereo imagery. Advanced raster and image analysis workflows for machine learning and feature extraction.	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	587	Esri India Technologies Limited	Vol-2 5.3.13 GIS Map for Guwahati City	Page 206	The system shall have the facility wherein the user can opt to view in 2D or 3D environment.	Please clarify as to whether System Integrator has to capture 3d building footprint for further analysis on 2D and 3D environment? Also clarify if department looking for capabilities like convert existing 2D features to 3D features, 2D and 3D simultaneous viewing etc.	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	588	Esri India Technologies Limited	Vol-2 7.1.4 GIS Enterprise Software	Page 345	7.1.4 GIS Enterprise Software	Kindly assist with following information for better solution sizing keeping the cost at optimum: 1) Approximate No. of users on Intranet viewing GIS data? 2) Approximate No. of users on Internet viewing GIS data?	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	589	Esri India Technologies Limited	Vol-2 7.1.4 GIS Enterprise Software	Page 345	7.1.4 GIS Enterprise Software	Does GIS software should support standard Web server / application server like IIS, Apache, Tomcat, Web Sphere, Web logic etc.	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	590	Esri India Technologies Limited	Vol-2 7.1.4 GIS Enterprise Software	Page 345	7.1.4 GIS Enterprise Software	We understand that GIS technology has to be on a single unified platform and not on multiple platforms (different GIS products with different make, model and company) to fulfill the requirement of enterprise GIS in order to ensure seamless integration of the system. Please clarify?	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	591	Esri India Technologies Limited	Vol-2 7.1.4 GIS Enterprise Software	Page 345	7.1.4 GIS Enterprise Software	GSCDL is looking for High availability of systems to minimize or prevent data loss in the event of a machine failure with Active-Passive/Active-Active architecture. We understand GIS systems shall also be made high available. Kindly confirm.	Tender conditions prevail.PI refer to response to SL no 579
Vol.2	592	Esri India Technologies Limited	BOQ Excel Sheet 7.1.4 GIS Enterprise Software	BOQ_27684	7.1.4 GIS Enterprise Software	We would suggest to incorporate GIS Desktop Software with extensions additionally with Enterprise GIS Software or simply mention Enterprise GIS Software Suite.	Tender conditions prevail Please refer to response to SL no 579
Vol.1	593	Esri India Technologies Limited	Vol-1 7.10. Manufacturers'/ Producers' Authorization Form	Page 82	We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding	The project duration including O&M is Go Live + 5years, kindly modify this to - support for such offered product/s or suitable upgrade will be available for minimum of 7 years from the date of bidding .	Refer to Addendum VI

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Vol.2	594	SGLIGIS	4.18 Geographical Information System (GIS) platform	RFPV2, 40	SI shall provide GIS system and integrate it with ICCC or other systems. The SI will have to consult with GSCL and confirm what all GIS map/layer/dataset is available with the city. If the map/layer/dataset is not already available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc. as the part of this project. It will also be the scope of SI to develop component specific GIS layers/utilities as & when requested by GSCL	1) What are the GIS layers available with GSCL . what is the scale of those available layers and accuracy also ? Please provide detail. 2) Also give list of layers required to be created additionally along with map scale to arrive at accurate techno-commercial estimates. 3) PI provide the Area of Interest (AOI) in Sq. KM for Guwahati city area for which data is proposed to be created. 4) What is the source of data creation or base map? If data (base map) to be created from satellite Image, please provide resolution of satellite Image and other technical specification. 5) Also pl suggest ,Will satellite image be procured by GSCL or it is in the scope of bidder? Since Satellite image can be procured only through NRSC-ISRO, we suggest it should be done as Govt to Govt procurement by GSCL directly from NRSC-ISRO. 6) Please provide the detail information on regards to scope of SI to develop components specific GIS layers/Utilities as & when requested by GSCL. It is assumed that , GSCL may ask to provide different layers of information during total Project phase. Please provide the list of detail layers, so that it will be helpful to accurate techno-commercial estimates.	Tender conditions prevail refer to response at SL no 577. As per GMDA Master Plan, the jurisdictional area is 328 sq. kms.
Vol.2	595	SGLIGIS	4.18 Geographical Information System (GIS) platform	RFPV2, 40	The SI is required to carry out implementation of City GIS Platform and seamless integration to ensure ease of use of GIS in the Dashboards at ICCC. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same.	1) What is the scope of field survey? As a practice source like satellite image is used to create base map by extracting various features like road, building foot prints, water, etc. Additional layers and data are collected from departments and added into base map after proper geo-referencing and verification. Survey is done only for ground truthing as per very limited requirement for verification purpose. It is practically not possible to collect all the type of data through field survey. PI confirm if our understanding is correct. 2) PI provide the Guwahati city area in Sq. KM for which base map is to be created.	Tender conditions prevail1. PI refer to response at SL no 577. Also the scope and requirements of the survey has to be decided by the SI by referring to the overall scope of the project detailed in the RFP. 2. As per the GMDA Master Plan, the jurisdictional area is 328 sq. Kms.
Vol.2	596	SGLIGIS	4.18 Geographical Information System (GIS) platform	RFPV2, 40	The SI will also be responsible to ensure that the GIS datasets are updated at regular frequency based on nature of datasets to ensure accuracy during the course of the entire project.	1) Please clarify the frequency of update and source of update? Normally it is on yearly basis. 3) if there is need to be procure satellite data to update Basemap ? If yes, who needs to procure it. Since Only source of Image procurement is NRSC-ISRO, we suggest that it be done as government to government purchase by GSCL directly from NRSC-ISRO.	Tender conditions prevail Based on existing inventory, the SI will have to determine the degree of updations required till the system is made go-live. Thereafter during the O&M period, the SI will have to identify the periodic requirements for updation and bring to the notice of GSCL; or GSCL may highlight the requirement of updation from their end as and when required.
Vol.2	597	SGLIGIS	4.18 Geographical Information System (GIS) platform	RFPV2, 41	The scope of work for the SI while implementing GIS are: 1. Creation of City Base Map 2. Creation of layers for roads, properties, forest zones etc. 3. Mapping of city assets, utilities, smart components in the Map/ Layers 4. Mapping of potentially affected infrastructure in high-hazard zone in one municipality that will include critical infrastructure (life-line infrastructure, schools, police stations etc.), housing, commercial and industrial facilities, transport infrastructure etc.	1) PI clarify as to what would be the source of creating utility layers in GIS. As a practice utility network data available in CAD drawing at proper scale is used for creating utility layer in GIS by digitising and geo referencing it. Is this assumption correct and Do GSCL /GMC has such utility data with them? Kindly confirm. 2) Since utility data creation is quite complex and time consuming effort. We also suggest that utility type mentioned here should only be the one for which data is available with GSCL/GMC to have clear scope clarity. 3) If no such data is available, only source to create utility network in GIS is to do underground utility survey using GPR which is quite time consuming and costly activities. It can also be detrimental to overall project execution. In this case, we request to remove the utility data creation from the scope.	Tender conditions prevail refer to response at SL no 577
Vol.2	598	SGLIGIS	4.18 Geographical Information System (GIS) platform	RFPV2, 41	An indicative list of the GIS datasets that are relevant to ICCC operations and would be required to be collected from stakeholder/end users' departments, field surveys and other ongoing projects is given below in the table:	1) As per our understanding, all the updated information given under this heading may be with different vendors of Smart city project. It means, those vendors will going to provide the Spatial information of this GIS layers. So, it is assumed that for GIS work, repeat survey for given line of items mentioned in RFP is not required. Please correct our understanding	Tender conditions prevail refer to response at SL no 577
Vol.2	599	SGLIGIS	4.19 Geo-Tagging	RFPV2, 42	System Integrator shall implement Geo-tagging for the all field equipment's, sensor, network touch points, connectivity and other IT/not-IT equipment's of the entire project.	1) It is been assumed that all field related equipment, sensor, network Touch points and other mentioned items spatial information with all correspondence MIS information will be provided by others Vendors or department. As , it is very time consuming and costly to do survey and collect information of it. It may led to increase of project cost and also timeline to complete. Please confirmed that our point is valid.	Tender conditions prevail refer to the Annexures under SI no 12 in the RFP.

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Vol.2	600	SGLIGIS	5.3.13 GIS Map for Guwahati City	RFPV2, 205	<ul style="list-style-type: none"> - Building footprints and names - Points of Interest data to include: <ul style="list-style-type: none"> o Other utilities such as travel and tourism facilities, religious places, burial grounds, solid waste locations etc. o Local landmarks with locally called names - Address layers (Pin code, Locality, Sub-locality, House numbers/names) 	<p>1) Please clarify, who will give information regards to address layers?</p> <p>2) Pl clarify as to what would be the source of creating utility layers in GIS. As a practice utility network data available in CAD drawing at proper scale is used for creating utility layer in GIS by digitising and geo referencing it. Is this assumption correct and Do GSCL /GMC has such utility data with them? Kindly confirm.</p> <p>3) Since utility data creation is quite complex and time consuming effort, We also suggest that utility type mentioned here should only be the one for which data is available with GSCL/GMC to have clear scope clarity.</p> <p>4) If no such data is available, only source to create utility network in GIS is to do underground utility survey using GPR which is quite time consuming and costly activities. It can also be determine to overall project execution. In this case, we request to remove the utility data creation from the scope.</p>	Tender conditions prevail refer to response at SL no 577
Vol.2	601	SGLIGIS	5.3.13 GIS Map for Guwahati City	RFPV2, 206	<ul style="list-style-type: none"> ix. System Functionalities: <ul style="list-style-type: none"> o The system shall have the facility wherein the user can opt to view in 2D or 3D environment. 	As per GSCL published RFP, we assumed that the portal will also have 3D viewer on which user can change the display mode as per his requirement. Its assumed that , user want to see the realistic view in which all the base map layers and other smart city elements will be drape over City terrain for visualisation only. Please confirmed, if our assumption is correct.	Tender conditions prevail refer to response at SL no 579
Vol.2	602	SGLIGIS	5.3.13 GIS Map for Guwahati City	RFPV2, 206	<ul style="list-style-type: none"> ix. System Functionalities: <ul style="list-style-type: none"> o GIS base maps shall be installed on work stations at City Operation Centre and City Operation center. GIS maps and data replication shall happen from central system remotely. 	<p>1) Its been assumed that workstation that will be installed will be loaded with desktop GIS software on which the authorise user of GSCL will do the updation by connecting to Central database. Then, please clarify how many workstation are there in which the authorise COTS GIS desktop license will be installed. As for the bulk level of map updation its is been advised to do updation in Desktop based GIS software. Please confirmed our understanding, as it is going to help for Techno-commercial estimation.</p> <p>2) It also assumed that all IT and Non IT infrastructure relate data will also provide by GSCL also.</p>	Tender conditions prevail refer to response at SL no 579
Vol.2	603	SGLIGIS	5.3.13 GIS Map for Guwahati City	RFPV2, 205	<ul style="list-style-type: none"> ix. System Functionalities: 	As per our understanding and past experience on smart cities project, there is scope for GIS based Citizen portal and also departmental modules also. In these modules, all GIS related functions work usually. Please confirmed. If yes, please provide detail requirement/ technical specification . Please also provide COTS GIS based platform compliance to cater the need of GIS platform for this RFP.	Tender conditions prevail refer to response at SL no 579
Vol.1	604	Integrated Systems & Services	Vol 1 3.5. Pre- Qualification Criteria SI No 1	33	<p>Ref... Sheet attached herewith for details</p> <p>The Sole Bidder or Lead Bidder (in case of consortium) should be:</p> <ul style="list-style-type: none"> <input type="checkbox"/> An Indian firm. <input type="checkbox"/> Registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 5 years as on date of bid submission. <p>Consortium members:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Maximum three (3) companies are allowed in a consortium including Lead Bidder. <input type="checkbox"/> An Indian firm. <input type="checkbox"/> All members should be registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 3 years as on date of bid submission. 	<p>The Sole Bidder or Lead Bidder (in case of consortium) should be:</p> <ul style="list-style-type: none"> <input type="checkbox"/> An Indian firm. <input type="checkbox"/> Registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 5 years as on date of bid submission. <p>Consortium members:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Maximum three (3) companies are allowed in a consortium including Lead Bidder. <input type="checkbox"/> An Indian firm. <input type="checkbox"/> All members should be registered under the Companies Act 1956/ 2013 in case it is not a proprietary firm. <p>• In case of Proprietary firm, it is to be registered as an MSME.</p> <ul style="list-style-type: none"> <input type="checkbox"/> In operation in India for a period of at least 3 years as on date of bid submission. 	Refer to AddendumVI

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Vol.1	605	Integrated Systems & Services	Vol 1 3.5. Pre- Qualification Criteria SI No 2	34	Ref.... Sheet attached herewith for details A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. □ In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. In case of consortium: • Lead Bidder should have minimum 60% of the Average Annual Turnover requirement • Each consortium member should have minimum 5 cores of Average Annual Turnover requirement • All members together should meet 250 Crore Average Annual Turnover requirement B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. . • ICT Infrastructure • IT system integration services • IT FMS and IT Infrastructure maintenance	Refer to AddendumVI
Vol.1	606	Integrated Systems & Services	Vol 1 3.5. Pre- Qualification Criteria SI No 3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	The OEM/ Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	Refer to AddendumVI
Vol.1	607	Integrated Systems & Services	Vol 1 3.5. Pre- Qualification Criteria SI No 9	36	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	The OEM/ bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	Tender conditions shall prevail.
Vol.1	608	Awidit Systems Pvt. Ltd	Volume 1, 2.29. Eligible Goods and Services, and OEM Criteria,	28	General	Request the authorities to kindly allow some weightage to MSIs quoting competent MSMEs as OEM partner for Software provision.	Inclusion of MSMEs in Project Delivery is already provisioned in this tender document under clause# 2.28 of Volume-1.
Vol.2	609	Awidit Systems Pvt. Ltd	Volume2, 5.1.4.14, a) Video Analytics Features	107	VA should enable any combination of analytics rules to run on the same camera simultaneously, without limitations.	In additionto to the given requirement, kindly consider the below suggestion to enhance the ease in user experience from operator point of view. The system should allow deployment of any analytics to run on any camera without any MAC level or IP level locking. Any analytics should be deployable and redeployable on any camera or video source as far as the camera view supports such use cases to be deployed. The user interface should have a matrix to assign, start, stop and schedule any use-case on any camera.	VA/VMS should enable min 8 different types of analytic rules to run on each camera simultaneously.
Vol.2	610	Awidit Systems Pvt. Ltd	Volume2, 5.1.4.14, a) Video Analytics Features	106	10. The VMS should escalate the Events to recipients in the form of SMS/emails if the Events are not acknowledged by the operators within a specific period.	The mentioned requirement is an essential part of the Video Analytics software. Request you to kindly consider the following suggestion: The VA system should escalate the Events to recipients in the form of SMS/emails if the Events are not acknowledged by the operators within a specific period.	It is required that the functionality is to be provided in totality, this may be by either by VMS / ICCO or any other application.
Vol.2	611	Awidit Systems Pvt. Ltd	Volume2, 5.1.4.14, a) Video Analytics Features	106	11. The VMS should send HTTP messages to any external server on receipt of the Events.	The mentioned requirement is an essential part of the Video Analytics software and can be better fulfilled using VA software. Request you to kindly consider the following suggestion: The VA system should send HTTP messages to any external server on receipt of the Events.	It is required that the functionality is to be provided in totality, this may be by either by VMS / ICCO or any other application.

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Vol.2	612	Awidit Systems Pvt. Ltd	Volume2, 5.1.4.14, a) Video Analytics Features	106	The VMS should show the Event messages on detection of Analytics events on the same Client live view panel instantly. On clicking on the message, relevant snap of the scene should appear on screen. On dragging the message to any video tile in the live view panel, the relevant portion of the video should be replayed automatically.	The mentioned requirement is an essential part of the Video Analytics software. Request you to kindly consider the following suggestion: The VA should show the Event messages on detection of Analytics events on the same Client live view panel instantly. The system should provide the following key UI screens: Event Notifications: The result of any video analytics app should be in the form of events that contain the screenshot with other metadata describing the event, such as detected objects, timestamp, camera/video that generated the event and all other metadata representing the event from different apps. The User Interface should have a grid and list view with all the events from different cameras etc. Data Analytics Dashboard: The user interface should also have an analytics dashboard listing all the patterns of events from different cameras and apps with a heat map of number of events on an hourly basis. App Camera Grid: The user interface should have a matrix to assign, start, stop and schedule any app on any camera. The status of active and non-active apps should be clearly visible with color coded information.	Tender conditions shall prevail
Vol.2	613	Marushika Technology Advisors Pvt Ltd.	Volume 2 7.1 Payment Schedules for Implementation Phase	342	(a) On supply – 60 % of approved rate (b) On Installation – 15 % of approved rate (c) On Commissioning -15 % of Approved Rate (d) On Go-live – 10 %	Request to Ammend this clause (a) On supply – 70 % of approved rate (b) On Installation – 15 % of approved rate (c) On Commissioning -10 % of Approved Rate (d) On Go-live – 5 %	Tender conditions shall prevail
Vol.2	614	Marushika Technology Advisors Pvt Ltd.	Volume 2 5.3.5 Intranet Firewall with IPS/1.3	180	Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 30 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 10 Million Concurrent firewall connections on device from day 1
Vol.2	615	Marushika Technology Advisors Pvt Ltd.	Volume 2 5.3.5 Intranet Firewall with IPS/1.4	180	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec	Firewall must support 250K of new connections/sec
Vol.2	616	Marushika Technology Advisors Pvt Ltd.	Volume 2 5.3.5 Intranet Firewall with IPS/2.2	181	The appliance must not have reported a backdoor vulnerability in OS in past five years	Please remove this clause	Clause deleted
Vol.2	617	Marushika Technology Advisors Pvt Ltd.	5.3.5 Intranet Firewall with IPS/2.7	181	i) Firewall should have minimum 10 virtual contexts/VDOM	Remove virtual firewall clause from mandatory requirement.	Tender conditions shall prevail
Vol.2	618	Marushika Technology Advisors Pvt Ltd.	5.3.5 Intranet Firewall with IPS/2.7	181	ii) Firewall should be SD-WAN ready	ii) Firewall should be SD-WAN ready	Tender conditions shall prevail
Vol.2	619	Marushika Technology Advisors Pvt Ltd.	5.3.5 Intranet Firewall with IPS/2.9	182	The firewall shall achieve the following industry recognized security certification standards: Common Criteria Protection Profile , FIPS 140-2	The firewall shall achieve the following industry recognized security certification standards: Common Criteria Protection Profile, EAL4+, NSS lab recommended	The firewall shall achieve the following industry recognized security certification standards: Common Criteria Protection Profile/EAL4/FIPS 140-2
Vol.2	620	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/1	183	Firewall Solution must have NDPP certification.	Firewall Solution must have NDPP/EAL4+ & ICESA certification.	Firewall Solution must have NDPP/EAL4/ICESA certification.
Vol.2	621	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/5	184	Appliance should offer 40Gbps Firewall throughput & 20Gbps NGFW throughput (with enabling Firewall, PS/Threat Prevention & AVC). This through-put must be under real world production Conditions.	Appliance should offer 40Gbps Firewall throughput &	Tender conditions shall prevail
Vol.2	622	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/5	184	Appliance should offer 40Gbps Firewall throughput & 20Gbps NGFW throughput (with enabling Firewall, PS/Threat Prevention & AVC). This through-put must be under real world production Conditions.	18Gbps NGFW throughput (with enabling Firewall,	Tender conditions shall prevail

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Vol.2	623	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/5	184	Appliance should offer 40Gbps Firewall throughput & 20Gbps NGFW throughput (with enabling Firewall, PS/Threat Prevention & AVC). This through-put must be under real world production Conditions.	IPS, Application & web filter)	Tender conditions shall prevail
Vol.2	624	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/6	184	Should support 5 Gbps of IPSec VPN throughput and must support minimum 10000 VPN user.	Should support 10 Gbps of IPSec VPN throughput and must support minimum 10000 VPN user.	Should support 5 Gbps of IPSec VPN throughput and must support minimum 5000 VPN user
Vol.2	625	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/7	184	Firewall should support 8 Million concurrent sessions and 200K new connections per second.	Firewall should support 20 Million concurrent sessions and 200K new connections per second.	Tender conditions shall prevail
Vol.2	626	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/14	185	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	Firewall should support Nat6in6 (IPv6-to-IPv6), Nat 6in4 (IPv6-to-IPv4) & Nat4in6 (IPv4-to-IPv6) functionality	Firewall should support NAT(IPv6-to-IPv6), NAT(IPv6-to-IPv4) & NAT (IPv4-to-IPv6) functionality
Vol.2	627	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/23	185	The solution must provide a full-featured NBA capability to detect threats emerging from inside the network (i.e. ones that have not passed through a perimeter IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines.	Please remove this	Clause deleted
Vol.2	628	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/24	185	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	Please remove this	Clause deleted
Vol.2	629	Marushika Technology Advisors Pvt Ltd.	5.3.6 Next Gen Firewall/25	185	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. On-premise Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and minimum of 2 x 10 ports with populated transceivers as per design requirement.	The solution shall provide on-premise/ cloud based sandbox technology where the objectionable content may be executed and inspected. In case of On-premise based Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and minimum of 2 x 10 ports with populated transceivers as per design requirement.	Clause deleted
Vol.2	630	Marushika Technology Advisors Pvt Ltd.	5.5.2.3 Network Rack – 42U Page No. 293	293	Size:- Standard 24" (600mm) width and 42" (1050mm) depth for optimal use of floor space	Specified size belong to one specific OEM, Request for change :- 19" Rack with 600 mm wide x 42UH x 1200mm deep as per industry standards.	Minimum Size:- 42U height, 600mm width & 1000mm depth. Bidder may propose higher dimension (w x d) as per solution requirement as space availability.
Vol.2	631	Marushika Technology Advisors Pvt Ltd.	5.5.2.3 Network Rack – 42U Page No. 293	293	Side panels:- Locking, removable side panels keyed alike with doors	As per industry standards, Side panel are removable and lockable.	Tender conditions shall prevail
Vol.2	632	Marushika Technology Advisors Pvt Ltd.	5.5.2.3 Network Rack – 42U Page No. 293	293	Standards:- Meets all enclosure requirements towards PCI DSS (Payment Card Industry Data Security Standard) Compliance	Given standards belong to Credit or payment cards, As per Industry standards IT racks or enclosures are carrying Standatds and regulatry:- Regulatory Standard Compliance: ISO 9001,14001, 18001, UL, RoHS, OHSAS and DIN 41494, EIA 310	Tender conditions shall prevail
Vol.2	633	Marushika Technology Advisors Pvt Ltd.	Volume 2, 5.3.4, Network Management System / Enterprises Management System (NMS/EMS)	171	Should be additional wireless APs can be registered and configured	Registering and configuration of Wireless Access point is the feature of Wireless controller and should be part of the Wireless controller specification. Request you to please descope it from NMS/EMS specifications.	Clause deleted
Vol.2	634	Marushika Technology Advisors Pvt Ltd.	Gen.		Request for addition	The framework of the tool should be such that we can consolidate the management of various devices e.g. networks, security, storage, application, virtualized platforms & showcase the impact of one on another.	Tender conditions shall prevail
Vol.2	635	Marushika Technology Advisors Pvt Ltd.	Gen.		Request for addition	Solution should be a secured Web-based platform with Centralized Dashboard for Enterprise-wide Monitoring & Management of both IT and Facility assets. The solution should have CMDB with SLA & Incident management modules, along with ITIL processes like Problem management, Service management, Change management, Asset & Inventory, Knowledge-base, etc.	Tender conditions shall prevail

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Vol.2	636	Marushika Technology Advisors Pvt Ltd.	Gen.		Request for addition	EMS platform must have in-built support for incident recording and processing for both IT & Facility Infrastructure of the Enterprise. It should be capable to have complete asset catalog in the CMDB and facilitate integrated Helpdesk and Knowledge-base functionalities.	Tender conditions shall prevail
Vol.2	637	Marushika Technology Advisors Pvt Ltd.	5.1.3.8 Online UPS for Field Locations	87	5.1.3.8 Online UPS for Field Locations	Please mention VAH of the UPS system, as load may different for different make equipment. Please mention VAH for 1 KVA 30 MIN is 936	Tender conditions shall prevail
Vol.2	638	Marushika Technology Advisors Pvt Ltd.	5.1.3.8 Online UPS for Field Locations	87	5.1.3.8 Online UPS for Field Locations	Please mention the Warranty terms as it seen diifernt in RFP for different Line Item	Tender conditions shall prevail
Vol.2	639	Marushika Technology Advisors Pvt Ltd.	5.2.12 UPS 50 KVA at ICCC	148	5.2.12 UPS 50 KVA at ICCC	Please mention VAH of the UPS system, as load may different for different make equipment. Please mention VAH for 50 KVA 60 MIN is 76800VAH	Tender conditions shall prevail
Vol.2	640	Marushika Technology Advisors Pvt Ltd.	5.2.12 UPS 50 KVA at ICCC	148	5.2.12 UPS 50 KVA at ICCC	Please mention the Warranty terms as it seen diifernt in RFP for different Line Item	Tender conditions shall prevail
Vol.2	641	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	126	2. Only those OEM's would be considered who also manufacture the Projection/Optical engine as well apart from the whole cube. Companies claiming to be OEM's but not manufacturing their own Projection/Optical engines shall not be considered	Request you to mention only those OEM's would be considered who manufacture the video wall Cubes	Only those OEM's would be considered who also manufacture the Projection/Optical engine/video wall cubes as well apart from the whole cube. Companies claiming to be OEM's but not manufacturing their own Projection/Optical engines shall not be considered
Vol.2	642	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	127	3. Technology: DLP Based cube on video wall with base stand .The network-based control room solution should consist IP enabled DLP based Video wall cubes. They should be able to show signals over IP without the need of separate decoders. Each of these Video wall cubes should be able to display up to 60 sources per display	Request you to kindly consider showing signals over IP with the need of separate decoders as this will provide Modular scalable architecture with multiple redundancy levels and no complete blackout of video wall for 24 x 7 video wall applications	Better specifications are acceptable
Vol.2	643	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	127	6. Total Resolution: Minimum resolution of video wall 15000 x 6000	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this ; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	644	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	127	14. Screen to Screen Gap: 0.2 mm (or less) @ temperatures between 20~25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm Requesting you to change the screen to screen gap 0.6 or less @temperatures between 20 ~ 25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm
Vol.2	645	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	128	16. Control BD Input terminals: Input: 1 x Digital DVI, Input: 1 x HDMI, Input: 1 x Display Port, Input: 1 x analog Dsub-15,	To meet RFP requirements for Video Wall solution 1x Digital DVI which is sufficient Request you to change Control BD Input Terminals to 1x Digital DVI	1 x Digital DVI or as per OEM architecture
Vol.2	646	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	128	17. Power Supply: Dual Redundant and Hot Swappable Power Supply. This should be built inside the cube for fail safe operation. Power supplies extended or kept outside the cube are not acceptable	Request you to delete it as this functionality is of no use As Power is supplied through UPS which itself is redundant in nature Supplying Cube with dual Redundant power supply will be of no Major use & will increase the Prices .Request you to delete the same	Clause deleted
Vol.2	647	Marushika Technology Advisors Pvt Ltd.	5.2.2.2 Video-Wall Specifications	128	19. Cube Depth: Total Cube depth including screen module should be less than 500 mm or lower	Request you to change cube depth as per OEM architecture This is only SPECIFIC TO ONE OEM only who can provide this ; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Cube Depth: Total Cube depth including screen module should as per OEM architecture
Vol.2	648	Marushika Technology Advisors Pvt Ltd.	5.2.3 Specifications of Video-Wall Controllers:	129	12. Power on Ethernet: Support POE	Request you to delete it as this functionality is of no use POE is not necessarily to meet the functionality of video wall solution	Clause deleted

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Vol.2	649	Marushika Technology Advisors Pvt Ltd.	5.2.2.4 Specifications of Display Wall Management Software	130	10. Framework: Video wall cube should be use Python- Django framework for monitoring the system	Request you to change the framework to video wall cube should be use JAVA framework for monitoring system Every OEM has its own software framework to meet the video wall requirements This is only SPECIFIC TO ONE OEM only who can provide this ; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Framework: Video wall cube should use JAVA framework for monitoring the system
Vol.2	650	Marushika Technology Advisors Pvt Ltd.	5.2.2.5 Specifications of Video-Wall Server	131	7. OS: Windows Server 2008/2012/2016 (64 bits)	Request to add Linux in OS also; linux is much secure and stable than windows with no blue crash issue which is general issue in windows OS.	7. OS: Windows Server 2008/2012/2016 (64 bits) or Linux based as per OEM architecture
Vol.2	651	Marushika Technology Advisors Pvt Ltd.	5.2.2.5 Specifications of Video-Wall Server	131	9. Others: A. System should also be capable of decoding 50 Full HD streams @30fps and displaying these on the screen simultaneously	As per RFP it is already covered in point no. 3 in video wall specifications: Each of these Video wall cubes should be able to display up to 60 sources per display Request you to delete this point	Video wall cubes should be able to display up to 60 sources per display
Vol.1	652	Trafitek Solutions Private Limited	Vol-1	40	B3.Certifications The Sole Bidder or any consortium member (in case of consortium) having followings Valid certifications o ISO 20000(latest) for IT Service Management o ISO 27001(latest) for Information Security Management System o CMM level 3 or above certification	Kindly remove the clause as: Note: In case of Consortium, all the criteria should be met by a single member of the consortium. Also Request to remove CMM level 3 or above certification	Tender conditions shall prevail
Vol.1	653	Trafitek Solutions Private Limited	Vol-1	34	2 B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. . o ICT Infrastructure o IT system integration services	Kindly amend the clause as: "2 B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years o ICT Infrastructure o IT system integration services"	Refer to AddendumVI
Vol.1	654	Trafitek Solutions Private Limited	Vol-1	39	"A2 - Manpower Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) working in the business unit providing "specific business areas" as mentioned in the above criteria as on date of release of RFP. Marks shall be allotted as given below:" Number of FTE Marks >500 FTE 4 >400 FTE to <=500 FTE 3 >300 FTE to <=400 FTE 2 =<300 FTE 1	"Kindly amend the clause as: ""A2 - Manpower Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) as on date of release of RFP. Marks shall be allotted as given below:"" Number of FTE Marks >500 FTE 4 >400 FTE to <=500 FTE 3 >300 FTE to <=400 FTE 2 =<300 FTE 1	Refer to AddendumVI
Vol.1	655	Trans Virtual Pvt Ltd.	Vol-1	Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'A'	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet INR 250 Crore Average Annual Turnover requirement	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement. In case, consortium member is MSME of same field then average annual turnover relaxation INR 20 Crores for each MSME (not lead bidder) for last 3 years o All members together should meet INR 250 Crore Average Annual Turnover requirement	A. The Sole Bidder shall have an average annual turnover of 200 Crore over the last three (3) financial years. In case of consortium: • Lead Bidder should have minimum 60% of the Average Annual Turnover requirement • All members together should meet 200 Crore Average Annual Turnover requirement

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Vol.1	656	Trans Virtual Pvt Ltd.	Vol-1	Page 57, Table 1 (Pre Qualification Requirements), SI No. 2 'B'	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	A. The Sole Bidder shall have an average annual turnover of 200 Crore over the last three (3) financial years. In case of consortium: • Lead Bidder should have minimum 60% of the Average Annual Turnover requirement • All members together should meet 200 Crore Average Annual Turnover requirement B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 150 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. . • ICT Infrastructure • IT system integration services • IT Facility Management Services IT maintenance Services
Vol.2	657	Trans Virtual Pvt Ltd.	Page 306, Clause 5.5.5, RF Connectivity, SI. No. 7, Page 308, Clause 5.5.6, SI. No. 6, Page 312, Clause 5.5.8 SI. No. 5	Page 306, Clause 5.5.5, RF Connectivity, SI. No. 7, Page 308, Clause 5.5.6, SI. No. 6, Page 312, Clause 5.5.8 SI. No. 5	Radio System should support Channel Bandwidth of 20,40,80 MHz	Radio System should support Channel Bandwidth of 20,40 MHz	Radio System should support Channel Bandwidth of 20,40 MHz
Vol.2	658	Trans Virtual Pvt Ltd.	Page 312, Clause 5.5.8 SI. No. 41	Page 312, Clause 5.5.8 SI. No. 41	Certification 1. MEP	Remove the certification	Clause deleted
Vol.1	659	Trans Virtual Pvt Ltd.	Vol-1	Page 40, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B2	Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks ≥ 3 Projects 10 2 Projects 8 1 Project 6	The criteria should be made applicable to OEMs as it has been done for ICCC & VMS in Vol-1, Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No B.4.2 & B5	Refer to Addendum 7 (SI. No. 21)
Vol.1	660	Trans Virtual Pvt Ltd.	Vol-1	Page 39, Clause 3.6.1-Technical Bid Criteria and Evaluation.		Additional point to be added for experience of WAN network as the project is having large amount of backbone network scope given in the tender document	Tender conditions shall prevail.
Vol.1	661	Trans Virtual Pvt Ltd.	Vol-1	Page 39, Clause 3.6.1-Technical Bid Criteria and Evaluation.		Wireless Network is a crucial component for the project	Tender conditions shall prevail.

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Vol.1	662	Trans Virtual Pvt Ltd.	Vol-1	Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B6	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 10 Crores per projects during last Seven (&) years (as on Bid Submission date)	The Sole Bidder or any consortium member (in case of consortium) have successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 5 Crores per projects during last Seven (&) years (as on Bid Submission date)	Refer to AddendumVI
Vol.1	663	Globalrays Technologies	Volume 1: Instruction to Bidders 2.29. Eligible Goods and Services, and OEM Criteria	28	f) The proposed OEM should have installed base of at least 20% of the quoted product in terms of volume in a single project.	f) The proposed OEM should have installed base of at least 10% of the quoted product in terms of volume in a single project.	Tender conditions shall prevail.
Vol.1	664	Globalrays Technologies	Volume 1: Instruction to Bidders 2.29. Eligible Goods and Services, and OEM Criteria	28	o) OEM of all active IT components should have online portal to raise tickets for support and services.	The OEM of active IT components should have ticketing systems for suport calls	Tender conditions shall prevail
Vol.1	665	Globalrays Technologies	Volume 1: Instruction to Bidders 2.29. Eligible Goods and Services, and OEM Criteria	28	p) Product serial numbers of all IT active components should be available in the OEM's online portal for ease of call log, maintenance and support.	The OEM of active IT components should have ticketing systems for suport calls	Tender conditions shall prevail
Vol.1	666	Globalrays Technologies	Volume 1: Instruction to Bidders 2.29. Eligible Goods and Services, and OEM Criteria	28	q) OEM should have end user web interface to log case with product serial number.	The OEM of active IT components should have ticketing systems for suport calls	Tender conditions shall prevail
Vol.1	667	Globalrays Technologies	Volume 1: Instruction to Bidders 2.29. Eligible Goods and Services, and OEM Criteria	28	Additional Clause for Camera OEM Eligibility Criteria	Camera OEM should not be suspended/ blacklisted from ONVIF forum. As the integration of Camera with VMS will be on ONVIF only so ONVIF regular updates are essential and any member who is suspended will not get the updates	Tender conditions shall prevail
Vol.1	668	Globalrays Technologies	Volume 1: Instruction to Bidders 2.29. Eligible Goods and Services, and OEM Criteria	28	Additional Clause for Camera OEM Eligibility Criteria	All the cameras in the project should be from the same OEM for ease of Integration with VMS and other analytics	Tender conditions shall prevail.
Vol.2	669	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	71	4. Shutter Time: 1/5 sec. to 1/25,000 sec. or better	4. Shutter Time: 1 sec. to 1/1,00,000 sec. or better	Shutter Time 1/1 sec. to 1/10,000 sec. or better

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Vol.2	670	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	72	15. Minimum Illumination: Colour: 0.1, Mono 0.05 lux, IR: 0 lux	15. Minimum Illumination: Colour: 0.001Lux @(F1.6), 0 Lux with IR	Tender conditions shall prevail
Vol.2	671	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	72	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: 90°, 180°, mirroring of images, 8 Privacy masks, noise reduction, SNR >52 dB	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	672	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	72	18. Wide Dynamic Range: > 90 dB or Better	18. Wide Dynamic Range: > 120 dB or Better	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
Vol.2	673	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	72	21. Security: 3. Signed Firmware	21. Security: 3. Signed/ Encrypted Firmware	Tender conditions shall prevail
Vol.2	674	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	73	25. Casing IP- 54 rated or better	25. Casing IP- 67 rated or better	Tender conditions shall prevail

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Vol.2	675	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	73	26. Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	26. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, ONVIF profile S & G	Tender conditions shall prevail
Vol.2	676	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	73	28. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	28. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 3 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 3 years. • OEM Shall have RMA Center in India.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	677	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	74	5. Shutter Time: 1/1 sec. to 1/10,000 sec. or better	5. Shutter Time: 1/1 sec. to 1/1,00,000 sec. or better	Tender conditions shall prevail
Vol.2	678	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	75	14. Multiple Streams: Quad stream	14. Multiple Streams: Triple stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	679	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	75	15. Minimum Illumination: Colour: 0.1, Mono 0.05 lux, IR: 0 lux	15. Minimum Illumination: Colour: 0.001Lux @(F1.6), 0 Lux with IR on	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	680	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	75	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: 90°, 180°, mirroring of images, 8 Privacy masks, noise reduction, SNR >52 dB	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	681	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	75	21. Security: 3. Signed Firmware	21. Security: 3. Signed/ Encrypted Firmware	Tender conditions shall prevail
Vol.2	682	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	76	22. Analytics: Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, Crowd density estimation.	22. Analytics: Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, People counting, Scene change, Defocus, Motion detection	Edge Analytics for all surveillance Cameras (Fixed and PTZ) The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction 2. Wrong way or illegal turn detection.
Vol.2	683	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	76	27. Certification: UL, EN, CE, FCC, ONVIF profile S, G & T	27. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, ONVIF profile S & G	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	684	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras		29. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	29. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 3 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 3 years. • OEM Shall have RMA Center in India.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	685	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	77	5. Shutter Time: 1/1 sec. to 1/10,000 sec. or better	5. Shutter Time: 1/1 sec. to 1/1,00,000 sec. or better	Tender conditions shall prevail
Vol.2	686	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	77	7. IP delay: (typical) 60 fps: 200 ms	7. IP delay: (typical) 30 fps: 200 ms	Frame rate: 25/30 FPS at full resolutions
Vol.2	687	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	77	8. Frame rate: 50/60 FPS at full resolutions	8. Frame rate: 25/30 FPS at full resolutions	Frame rate: 25/30 FPS at full resolutions
Vol.2	688	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	78	11. Multiple Streams: Quad Stream	11. Multiple Streams: Triple Stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265

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Vol.2	689	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	78	12. Minimum Illumination: Colour: 0.04 lux @ F 1.6, B/W: 0.00 lux (at 30 IRE, F 1.6) or better	12. Minimum Illumination: Color 0.001Lux@F1.5, B/W 0Lux(IR ON)	Better specifications are acceptable
Vol.2	690	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	78	16. Pan: Pan: 360° endless/continuous, up to 120°/s	16. Pan: Pan: 360° endless/continuous, up to 300°/s	As Per RFP Minimum Requirement mentioned in Tender, Bidder can propose better
Vol.2	691	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	78	17. Tilt: Tilt: 3° ~ 90°, up to 300°/s	17. Tilt: Tilt: 3° ~ 90°, up to 240°/s	Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	692	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	78	21. Image settings: Saturation, contrast, brightness, sharpness, white balance, BLC, Noise reduction, SNR >55 dB	21. Image settings: Saturation, contrast, brightness, sharpness, white balance, BLC, Noise reduction, SNR >52 dB	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	693	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	79	24. Security: 3. Signed Firmware	24. Security: 3. Signed/ Encrypted Firmware	Tender conditions shall prevail

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Vol.2	694	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	79	26. Camera Analytics: Camera must have edge base analytics Viz: Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	26. Camera Analytics: Camera must have edge base analytics Viz; Enter / leave field, Line Crossing, follow route, Idle / removed object, Counting, Scene Change, Defocus, Motion detection Bidder to ensure minimum 2 Different types of analytics shall run simultaneously in each Camera.	Edge Analytics The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction
Vol.2	695	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	80	27. Alarm I/O: Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interface	27. Alarm I/O: Minimum 1 Input & 1 Output contact integrated/ external for 3rd part interface	Alarm I/O Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface
Vol.2	696	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	80	32. Certification: UL, CE, FCC, RoHS, ONVIF profile S, G & T	32. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, ONVIF profile S & G	Tender conditions shall prevail
Vol.2	697	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	80	33. IR Illuminator: Inbuilt 850nm intensity adjustable IR with minimum 180 meters range, with object identification	33. IR Illuminator: Inbuilt 850nm intensity adjustable IR with minimum 150 meters range, with object identification	IR Illuminator: Inbuilt intensity adjustable IR with minimum 180 meters range, with object identification
Vol.2	698	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	80	34. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	34. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 3 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 3 years. • OEM Shall have RMA Center in India.	Tender conditions shall prevail

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Vol.2	699	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	237	4.b. Video Resolution: 2-MP - 1920x 1080p	4.b. Video Resolution: 4-MP - 2592x1520p	As per RFP, Minimum requirement is mentioned, bidder can propose better for both ANPR & RLVD Camera
Vol.2	700	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	237	4.c. Frame rate: Min. 50 ~ 60 FPS	4.c. Frame rate: Min. 25 ~ 30 FPS	Tender conditions shall prevail
Vol.2	701	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	237	4.e. Lens Type: Varifocal, C/CS Mount, IR Correction full HD lens	4.e. Lens Type: Motorized Varifocal, C/CS or Board Mount, IR Correction full HD lens	As per RFP, Motorized Zoom is not required in ANPR & RLVD Application as per fixed focus

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Vol.2	702	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	237	4.g. Minimum Illumination: Colour: 0.5 lux, B/W: 0.1 lux (at 30 IRE)	4.g. Minimum Illumination: Color: 0.05Lux@F1.2, B/W: 0Lux@IR LED ON	Clause to be read as for ANPR & RLVD , 6. Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON
Vol.2	703	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	238	4.r. Alarm I/O: Minimum 2 Input & 1 Output contact for 3rd part interface	4.r. Alarm I/O: Minimum 1 Input & 1 Output contact for 3rd part interface	Clause to be read as for ANPR & RLVD , Alarm I/O: Minimum 1 Input & 1 Output contact for 3rd part interface
Vol.2	704	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	238	4.s. Certification: UL/EN, CE, FCC	4.s. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	Clause to be read as for ANPR & RLVD , UL, EN, CE, FCC

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Vol.2	705	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	244	3. Lens & Resolutions: 5-50mm Lens & 2-MP - 1920x 1080p	3. Lens & Resolutions: 5-50mm Lens & 4-MP - 2592x1520p	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement
Vol.2	706	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	244	4. Shutter Time: PAL: 1/20~ 1/30,000 sec.	4. Shutter Time: PAL: 1/5~ 1/20,000 sec.	Request smart city to consider fixed shutter 1/25 to 1/15000s and Automatic electronic shutter for both ANPR & RLVD Camera
Vol.2	707	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	244	6. Minimum Illumination: 0.001Lux @ (F1.2, AGC ON), 0.0014Lux @ (F1.4, AGC ON), 0 Lux at IR ON	6. Minimum Illumination: Color: 0.05Lux@F1.2, B/W: 0Lux@IR LED ON	Clause to be read as for ANPR & RLVD , 6. Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON
Vol.2	708	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	245	10. WDR: Up to 140 dB	10. WDR: Up to 120 dB	Clause to be read as WDR >= 120 Db for both ANPR & RLVD Camera

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Vol.2	709	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	245	13. S/N Ratio: >60db	13. S/N Ratio: >52db	Clause to be read as S/N Ratio >55db for both ANPR & RLVD Camera
Vol.2	710	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	245	14. Video Compression: H.264, H.265, MPEG-4 & MJPEG	14. Video Compression: H.264, H.265 & MJPEG	Clause to be read as MJPEG, H.264/ H.265 for both ANPR & RLVD Camera
Vol.2	711	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	245	18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: 2MP @50 FPS to 60 FPS, Sub stream: D1@ 50FPS to 60 FPS	18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: 2MP @25 FPS to 30 FPS, Sub stream:D1@ 25FPS to 30 FPS, Third stream: VGA@ 25FPS to 30 FPS	Clause to be fully configurable 18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: H.264,2MP @50 FPS to 60 FPS, Sub stream: H.264,2MP @50 FPS to 60 FPS at configurable bandwidth for both ANPR & RLVD Camera
Vol.2	712	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	245	19. Frame rate: 50 to 60 FPS or Better	19. Frame rate: 25 to 30 FPS or Better	As per RFP, Frame rate: 50 to 60 FPS or Better at all resolution 2MP , 720P for both ANPR & RLVD Camera

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Vol.2	713	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	246	26. LED type: 12 pieces dot matrix array LED or better	Request you to remove this specification as every OEM have its own design.	Clause stands deleted
Vol.2	714	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	246	Additional Specification	Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	As per RFP, Minimum requirement is mentioned, bidder can propose better for both ANPR & RLVD Camera
Vol.2	715	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	254	1. Image sensor and Effective Pixels (Resolution): 1" or higher, CMOS, Global Shutter, Minimum 9MP, 4096(H) x 2160(V)	1. Image sensor and Effective Pixels (Resolution): 1/7" or higher, CMOS, Minimum 12MP, 4000(H) x 3000(V)	As per RFP, Bidder can propose better
Vol.2	716	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	254	2. Electronic Shutter: 1/1000 s to 1/10,000 s or better	2. Electronic Shutter: 1 s to 1/1,00,000 s or better	Tender conditions shall prevail
Vol.2	717	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	254	9. Certifications: CE, FCC, EN/UL, RoHS	9. Certifications: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	Tender conditions shall prevail

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Vol.2	718	Globalrays Technologies	Volume 2: Scope of Work & Technical Specifications 5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	254	11. Video Compression: MJPEG, H.264	11. Video Compression: MJPEG, H.264, H.265	Clause to be read as MJPEG, H.264/ H.265 for both ANPR & RLVD Camera
Vol.2	719	Dahua Technology India Private Limited	5.1.3.1 Dome CCTV Cameras		26. Certification : UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	Normally in UL, CE, FCC and Onvif certificates are widely used in every smart city project. Thus requesting you kindly help to amend this clause with "Certification : UL, CE, FCC and Onvif"	Tender conditions shall prevail
Vol.2	720	Dahua Technology India Private Limited	5.1.3.2 Fixed Bullet CCTV Cameras		21. Security : 6. Any of the security certifications of IEC/EN/UL - 60950-1 /60950-22, IEC-62471	Normally in UL, CE, FCC and Onvif certificates are widely used in every smart city project. Thus requesting you kindly help to amend this clause with "Security Certification : UL, CE, FCC and Onvif"	Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T for all cameras
Vol.2	721	Dahua Technology India Private Limited	5.1.3.3 PTZ CCTV Cameras		24. Security : 6. Any of the security certifications of IEC/EN/UL - 60950-1 /60950-22, IEC-62471	Normally in UL, CE, FCC and Onvif certificates are widely used in every smart city project. Thus requesting you kindly help to amend this clause with "Security Certification : UL, CE, FCC and Onvif"	Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T for all cameras
Vol.2	722	Dahua Technology India Private Limited	5.1.3.3 PTZ CCTV Cameras		26. Camera Analytics : Camera must have edge base analytics Viz; Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	Normally PTZ camera used for pan, tilt and zooming view and it will rotate 360° or based on the surrounding area to capture or tracking. The mentioned analytics mainly used in fixed camera. Thus, requesting you kindly help to remove this clause.	Tender conditions shall prevail
Vol.2	723	Dahua Technology India Private Limited	5.1.3.3 PTZ CCTV Cameras		32. Certification : UL, CE, FCC, RoHS, ONVIF Profile S, G & T	Normally in UL, CE, FCC and Onvif certificates are widely used in every smart city project. Thus requesting you kindly help to amend this clause with "Security Certification : UL, CE, FCC and Onvif"	Tender conditions shall prevail
Vol.2	724	Dahua Technology India Private Limited	5.4.2.1 Technical Specification - Red Light Violation Detection (RLVD)Systems		f. Lens : Auto IRIS 5-50mm /8 – 40 mm, F1.4	The mentioned RFP clause regarding lens is no feasible to all OEM to comply. Thus requesting you kindly help to amend this clause with " Lens : Auto IRIS 5-50mm(±1) /8 – 40 mm(±1), F1.4"	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement
Vol.2	725	Dahua Technology India Private Limited	5.4.2.6 ANPR HW Requirements		3. Lens & Resolution : 5-50mm Lens & 2-MP - 1920x 1080p	The mentioned RFP clause regarding lens is no feasible to all OEM to comply and it is belong to one specific OEM. Thus requesting you kindly help to amend this clause with " Lens : 5-50mm /10-40 mm"	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement
Vol.2	726	Dahua Technology India Private Limited	5.4.2.6 ANPR HW Requirements		10. WDR : Up to 140 dB	The mentioned RFP clause regarding WDR is no feasible to all OEM to comply and it is belong to one specific OEM. Thus requesting you kindly help to amend this clause with " WDR : upto 120dB"	Clause to be read as WDR >= 120 Db for both ANPR & RLVD Camera
Vol.2	727	Dahua Technology India Private Limited	5.4.2.6 ANPR HW Requirements		16. Audio Compression : G.711/AAC-LC	Normally ANPR will be installed on outdoor scenario and background noise will be higher so there is no use of audio on outdoor scenario. Thus requesting you kindly help to remove this clause.	As per RFP, Camera shall support in case of any future requirement for both ANPR & RLVD Camera
Vol.2	728	Dahua Technology India Private Limited	5.4.2.6 ANPR HW Requirements		17. Triple Stream : Required	Normally ANPR will be installed on outdoor scenario and two stream is more than sufficient as one for recording and one for monitoring. Thus requesting you kindly help to amend this clause with " Stream : Two or more."	Tender conditions shall prevail
Vol.2	729	Dahua Technology India Private Limited	5.4.2.6 ANPR HW Requirements		20. Image Settings through client software or web browser : Saturation, Brightness, Contrast, Sharpness, Hue, Gain, Mirroring adjustable	The mentioned RFP clause belong to some particular OEM and its very hard to match with all other OEM. Thus requesting kindly help to remove this clause.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	730	Dahua Technology India Private Limited	5.4.2.6 ANPR HW Requirements		27. Wavelength : 850nm approx.	The mentioned RFP clause belong to some particular OEM and its very hard to match with all other OEM. Thus requesting kindly help to remove this clause.	Bidder to consider the separate illuminator, 850nm is IR Standard wavelength for both ANPR & RLVD Camera
Vol.2	731	Dahua Technology India Private Limited	5.1.3.1 Dome CCTV Cameras	Page 73 , Volume 2	28. • OEM without any JV/Distributor Should have their own registered office in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB. # Parameters since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India	Request to consider A) OEM with JV/ Distributor Should have their own registered office in India for minimum Last 7 years & OEM Direct India office shall be operational for minimum 3 years B) Camera should have MTBF of 5 years duly certified by own lab/quality testing confirmation from OEM C) OEM Should have India RMA center with TOLL FREE number with Operations from Monday to Saturday 10AM to 6PM and Regional Service centre in East atleast 2 numbers shall be need since the project is based out of Guwahati ,so any support need on product must be available in East support for quick resolution	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	732	Dahua Technology India Private Limited	5.1.3.2 Fixed Bullet CCTV Cameras	Page 77 , Volume 2	28. • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB. # Parameters since Last 7 years. • OEM without any JV/Distributor Should have their own service center in India	Request to consider A) OEM with JV/ Distributor Should have their own registered office in India for minimum Last 7 years & OEM Direct India office shall be operational for minimum 3 years B) Camera should have MTBF of 5 years duly certified by own lab/quality testing confirmation from OEM C) OEM Should have India RMA center with TOLL FREE number with Operations from Monday to Saturday 10AM to 6PM and Regional Service centre in East atleast 2 numbers shall be need since the project is based out of Guwahati ,so any support need on product must be available in East support for quick resolution	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	733	Dahua Technology India Private Limited	5.1.3.3 PTZ CCTV Cameras	Page 80 , Volume 2	28. • OEM without any JV/Distributor Should have their own registered office in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB. # Parameters since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India	Request to consider A) OEM with JV/ Distributor Should have their own registered office in India for minimum Last 7 years & OEM Direct India office shall be operational for minimum 3 years B) Camera should have MTBF of 5 years duly certified by OEM own lab/quality testing confirmation C) OEM Should have India RMA center with TOLL FREE number with Operations from Monday to Saturday 10AM to 6PM and Regional Service centre in East atleast 2 numbers shall be need since the project is based out of Guwahati ,so any support need on product must be available in East support for quick resolution	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.1	734	Railtel Corporations of India Ltd	Vol 1	Page 28, 2.29. Eligible Goods and Services, and OEM Criteria	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	In vol 2., it is mentioned as follows: 4) OEM undertaking that the quoted product will not become end of sale within next 12 months. 5) OEM undertaking that the quoted product will not become end of support/end of life for next 5 years. We feel this is the point which needs to be followed since Vol II is for scope of work and technical specifications. Please clarify	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.2	735	Railtel Corporations of India Ltd	Page 82, 4 Port POE switch, clause no. 5	Page 82, 4 Port POE switch, clause no. 5	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	6 x 10/100/1000 (PoE+ on all ports) + 2 x combo or dedicated Gigabit SFP, Switch should support Rugged SFPs and all the transceiver should be from the same OEM as the switch	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	736	Railtel Corporations of India Ltd	Page 82, 4 Port POE switch, clause no. 7	Page 82, 4 Port POE switch, clause no. 7	120 W or Better	180W or Better	Tender conditions shall prevail
Vol.2	737	Railtel Corporations of India Ltd	Page 82, 4 Port POE switch, clause no. 8	Page 82, 4 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 09 Mbps or better Switching capacity: 12 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 16 Gbps or better	Tender conditions shall prevail
Vol.2	738	Railtel Corporations of India Ltd	Page 82, 4 Port POE switch, clause no. 10	Page 82, 4 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 along with multicasting should be supported for future enhancements without changing the hardware.	This is minimum requirement, bidder can propose better solutions
Vol.2	739	Railtel Corporations of India Ltd	Page 83, 4 Port POE switch, clause no. 14	Page 83, 4 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	740	Railtel Corporations of India Ltd	Page 83, 4 Port POE switch, clause no. 17	Page 83, 4 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	741	Railtel Corporations of India Ltd	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail
Vol.2	742	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	743	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch, clause no. 19	Page 84, 4 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to PoE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	744	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch, clause no. 25	Page 84, 4 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	745	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	746	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	747	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QOS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	748	Railtel Corporations of India Ltd	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	749	Railtel Corporations of India Ltd	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	750	Railtel Corporations of India Ltd	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	751	Railtel Corporations of India Ltd	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	752	Railtel Corporations of India Ltd	Page 85, 8 Port POE switch, clause no. 10	Page 85, 8 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 and multicast should be supported for future enhancements without changing the hardware.	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1
Vol.2	753	Railtel Corporations of India Ltd	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail
Vol.2	754	Railtel Corporations of India Ltd	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	755	Railtel Corporations of India Ltd	Page 86, 8 Port POE switch, clause no. 14	Page 86, 8 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	756	Railtel Corporations of India Ltd	Page 86, 8 Port POE switch, clause no. 17	Page 86, 8 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or extremal power supply	Tender conditions shall prevail
Vol.2	757	Railtel Corporations of India Ltd	Page 86, 8 Port POE switch, clause no. 19	Page 86, 8 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to PoE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	758	Railtel Corporations of India Ltd	Page 87, 8 Port POE switch, clause no. 25	Page 87, 8 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	759	Railtel Corporations of India Ltd	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	760	Railtel Corporations of India Ltd	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	761	Railtel Corporations of India Ltd	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QoS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	762	Railtel Corporations of India Ltd	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	763	Railtel Corporations of India Ltd	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.4	764	Railtel Corporations of India Ltd	BOQ-27684	Schedule-B, Serial No. 5.3.2	New Request and Clarification	The Internet router has been considered as only 1 in quantity in the Schedule B of the BOQ file. This lacks resiliency and becomes a single point of failure. Hence, we are requesting to increase the quantity to at least 2. Further, the specs in Vol. 2 has the specs for Internet switch and not as Internet Router, so we are assuming that it is a typo on the BOQ file and it should be Internet switch on both BOQ and specs of Vol. 2 of the RFP. Pls confirm on the same.	Tender conditions shall prevail

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Vol.2	765	Railtel Corporations of India Ltd	Page 136, Internet Switch - L3, clause no. 9	Page 136, Internet Switch - L3, clause no. 9	Power supply:230V AC PSU	"Power supply:Redundant and field replaceable 230V AC PSU "	Tender conditions shall prevail
Vol.2	766	Railtel Corporations of India Ltd	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	767	Railtel Corporations of India Ltd	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	768	Railtel Corporations of India Ltd	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	769	Railtel Corporations of India Ltd	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	770	Railtel Corporations of India Ltd	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 2000 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	771	Railtel Corporations of India Ltd	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 50,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	772	Railtel Corporations of India Ltd	Page 168, Spine & Leaf Switch, clause no. 39	Page 168, Spine & Leaf Switch, clause no. 39	The solution must have virtualization feature.	The solution must have virtualization feature and should support at least 1000 VRFs	Tender conditions shall prevail
Vol.2	773	Railtel Corporations of India Ltd	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all OEMs are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	774	Railtel Corporations of India Ltd	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	775	Railtel Corporations of India Ltd	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	776	Railtel Corporations of India Ltd	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted
Vol.2	777	Railtel Corporations of India Ltd	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	778	Railtel Corporations of India Ltd	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	779	Railtel Corporations of India Ltd	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	780	Railtel Corporations of India Ltd	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	781	Railtel Corporations of India Ltd	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	782	Railtel Corporations of India Ltd	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	783	Railtel Corporations of India Ltd	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	784	Railtel Corporations of India Ltd	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	785	Railtel Corporations of India Ltd	Intranet Firewall with IPS	Intranet Firewall with IPS	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replaceable	Tender conditions shall prevail
Vol.2	786	Railtel Corporations of India Ltd	Page no-184, Next generation Firewall , Clause No 4	Page no-184, Next generation Firewall , Clause No 4	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Suggestions in Justifications Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 100 categories and more than 280+ million URL's as higher number of URL's and categories ensures that there is a wide coverage and very few uncategorized URL's are there which require manual policy creation. Hence this numbers needs to be increased.	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	787	Railtel Corporations of India Ltd	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail
Vol.2	788	Railtel Corporations of India Ltd	Next generation Firewall	Next generation Firewall	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replacable	Tender conditions shall prevail
Vol.2	789	Railtel Corporations of India Ltd	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to polulate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	790	Railtel Corporations of India Ltd	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.

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Vol.2	791	Railtel Corporations of India Ltd	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	792	Railtel Corporations of India Ltd	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to Addendum XII
Vol.2	793	Railtel Corporations of India Ltd	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Storage solution should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Tender conditions shall prevail
Vol.2	794	Railtel Corporations of India Ltd	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)
Vol.2	795	Railtel Corporations of India Ltd	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels 1, 6, 10 or equivalent Erasure Coding Configurations	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.
Vol.2	796	Railtel Corporations of India Ltd	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	797	Railtel Corporations of India Ltd	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	798	Railtel Corporations of India Ltd	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Storage shall have minimum front-end support for 16Gb and backend support for minimum 12Gb.	Each Storage controller/Node shall have minimum front-end (network) support for 25Gb and backend support for minimum 12Gb.	Clause deleted
Vol.2	799	Railtel Corporations of India Ltd	page No. 200, Storage Specifications	page No. 200, Storage Specifications	All the necessary software (GUI Based) to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.
Vol.2	800	Railtel Corporations of India Ltd	page No. 201, Storage Specifications	page No. 201, Storage Specifications	Additional parameter	Storage feature: The solution should provide inbuilt native deduplication and compression capabilities	Tender conditions shall prevail
Vol.2	801	Railtel Corporations of India Ltd	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	802	Railtel Corporations of India Ltd	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	The solution should be offered with redundancy of Compute, Hard disk and Connectivity.	The solution should be offered with one additional node for ensuring that there would be no performance degradation in case of 1 node failure.	Tender conditions shall prevail

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Vol.2	803	Railtel Corporations of India Ltd	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with minimum 800GB cache capacity additional to usable storage. Proposed HCI solution shall be able to scale twice the current mentioned capacity.	Tender conditions shall prevail
Vol.2	804	Railtel Corporations of India Ltd	Page No. 203, Hyper Converged Infrastructure (HCI)	Page No. 203, Hyper Converged Infrastructure (HCI)	Proposed solution shall be able to Track and manage firmware versions ,display & report inventory across all proposed Servers.	Proposed solution shall be able to centrally Track and manage firmware versions ,display & report inventory across all proposed Servers at DC & DRC.	Tender conditions shall prevail
Vol.2	805	Railtel Corporations of India Ltd	L2 Switch for POP	L2 Switch for POP	Change Request	Exisiting specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	806	Railtel Corporations of India Ltd	Page 302, L2 Switch for POP, Clause No. 1	Page 302, L2 Switch for POP, Clause No. 1	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports. All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half duplex ports.	The device must support 18x 1GE+ 6 x 10GE.Considering the growth in traffic number of 10G interfaces should be more.18x1G interfaces are sufficient to connect IE switche ring.	The device must support 16x 1GE SFP, 4 x 10GE SFP+ ports. Should have future scalability for minimum 2x40Gbps interface. All proposed transceivers should be from same OEM.
Vol.2	807	Railtel Corporations of India Ltd	Page 302, L2 Switch for POP, Clause No. 2	Page 302, L2 Switch for POP, Clause No. 2	Layer 2	The device should be Layer3 switch or Router with IP/MPLS capabilities.As per city network design,all IE switch ring will terminate on this switch/router. This will act as pre aggregation or aggregation for ntwork.Having layer 3 and IP/MPLS capabilities on this will ensure that broadcast domain is limited and Servies like Layer3 ,Layer2 ,Multicast can be enabled from this node.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	808	Railtel Corporations of India Ltd	Page 302, L2 Switch for POP, Clause No. 4	Page 302, L2 Switch for POP, Clause No. 4	Minimum 128Gbps Switching fabric capacity	Since the devcie will act as pre aggregation/Agregation device suggest to increase the throughput to 200Gbps.	Minimum 128Gbps Routing Throughput
Vol.2	809	Railtel Corporations of India Ltd	Page 302, L2 Switch for POP, Clause No. 7	Page 302, L2 Switch for POP, Clause No. 7	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum of 64K IPv4/32K IPv6 routes or better
Vol.2	810	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	All the devcies will deployed in filed and will require high temperature sustainability.Request to increase the temperature to 0 to 65	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	811	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 9	Page 303, L2 Switch for POP, Clause No. 9	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum 64K IPv4/IPv6 routes/hosts

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Vol.2	812	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	New features	Multicast will be one of the key feature as we intend to connect cameras and other applications in future. The devices must support 4K Multicast routes to achieve the ultimate goal of city network.	Tender conditions shall prevail
Vol.2	813	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 10	Page 303, L2 Switch for POP, Clause No. 10	Packet Forwarding Rate should be 95 Mpps or better	Since the device will act as pre aggregation/Aggregation device suggest to increase the Packet Forwarding Rate should be 200 Mpps or better	Clause deleted
Vol.2	814	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 18	Page 303, L2 Switch for POP, Clause No. 18	Support upto 4K VLANs with jumbo frame handling capability of 13K packet size	Jumbo frame standard is 9000 MTU pls change it to 9000.	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet size or better
Vol.2	815	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 20	Page 303, L2 Switch for POP, Clause No. 20	Support Multicasting	The devices must support multicast layer 3 VPN, PIM, IGMP V1, V2, V3.	Clause 20. Support Multicasting with below features ready- i) IPv4 and IPv6 multicast ii) PIM-SM, PIM-SSM iii) IGMPv3, IGMP snooping iv) 4K Multicast Routes
Vol.2	816	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 22	Page 303, L2 Switch for POP, Clause No. 22	Should support Ring protection	The devices must support all the ring protection mechanism like IPFRR, MPLS-TE FRR, LFA remote and Local, TI-LFA, BFD with 3.3 msec to achieve ring protection within 50msec	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or IPFRR, MPLS-TE FRR, LFA remote and Local, TI-LFA, BFD with 3.3 msec to achieve ring protection within 50-ms.
Vol.2	817	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP, Clause No. 28	Page 303, L2 Switch for POP, Clause No. 28	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	The devices must support all the ring protection mechanism like G.8032, IPFRR, MPLS-TE FRR, LFA remote and Local, TI-LFA, BFD with 3.3 msec to achieve ring protection within 50msec	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	818	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The devices must support 2 Level HQOS for granular Quality of Service	Tender conditions shall prevail
Vol.2	819	Railtel Corporations of India Ltd	Page 304, L2 Switch for POP, Clause No. 39	Page 304, L2 Switch for POP, Clause No. 39	Should support 4 groups of RMON	RMON is very old methodology for network monitoring there are new protocols like Telemetry, SNMP which should be allowed for better network management and logging	Should support 4 groups of RMON or Telemetry, SNMP
Vol.2	820	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The router/layer3 switch must support following layer3 protocols: 1.OSPF V2 and V3, ISIS 2.BGP (IPv4, VPNv4, IPv6) 3.MPLS LDP 4.Multicast VPN, Layer2 VPN, Layer3 VPN, VPLS 5.Segment routing 6.TI-LFA 7.EVPN 8.SR v6	Tender conditions shall prevail
Vol.2	821	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing Flex-algo should be supported to ensure each category of traffic is getting bandwidth as per their Latency and SLA requirement	Tender conditions shall prevail
Vol.2	822	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing Data Plane monitoring should be supported to ensure that traffic is not blackholed and not dropped due to network issues.	Tender conditions shall prevail
Vol.2	823	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The device must support minimum 8 label depth for Segment routing to work as desired.	Tender conditions shall prevail
Vol.2	824	Railtel Corporations of India Ltd	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	Certification	The device series should be CE3.0 certified	Tender conditions shall prevail
Vol.2	825	Railtel Corporations of India Ltd	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards. The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)

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Vol.2	826	Railtel Corporations of India Ltd	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lambda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	827	Railtel Corporations of India Ltd	Page No. 299, DWDM/OTN, Clause No. 4	Page No. 299, DWDM/OTN, Clause No. 4	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card)	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	828	Railtel Corporations of India Ltd	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card.100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	829	Railtel Corporations of India Ltd	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC,1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	830	Railtel Corporations of India Ltd	Page No. 299, DWDM/OTN, Clause No. 7	Page No. 299, DWDM/OTN, Clause No. 7	The offered system should be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradable in service to carry 100 Gbit/s channels along with 10G channels.	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	831	Railtel Corporations of India Ltd	Page No. 300, DWDM/OTN, Clause No. 10	Page No. 300, DWDM/OTN, Clause No. 10	2) Relative humidity: Up to 90% at non-condensing for the DWDM.	Pls change the relative humidity to 85%.	Refer to Addendum VII (sl no 17)
Vol.2	832	Railtel Corporations of India Ltd	Page No. 300, DWDM/OTN, Clause No. 11	Page No. 300, DWDM/OTN, Clause No. 11	The attenuation per Km for fibre shall be taken as 0.25 db per km. The link shall be designed with a fibre and OSNR margin of 3db.	We need a network/topology to design.	Refer to Addendum VII (sl no 17)
Vol.2	833	Railtel Corporations of India Ltd	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	834	Railtel Corporations of India Ltd	Page No. 295, Core Router, Clause No. 7	Page No. 295, Core Router, Clause No. 7	Should have a minimum capacity of 2Tbps	Should have a minimum capacity of 4 Tbps	Tender conditions shall prevail
Vol.2	835	Railtel Corporations of India Ltd	Page No. 295, Core Router, Clause No. 10	Page No. 295, Core Router, Clause No. 10	Should have minimum 32GB RAM	Should have minimum 24GB RAM from Day 1 with support to go upto 32GB for future scalability	Should have minimum 16GB RAM
Vol.2	836	Railtel Corporations of India Ltd	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	837	Railtel Corporations of India Ltd	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	838	Railtel Corporations of India Ltd	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workload refers to Containerised Applications or VM based Application along with Application stack workload. Please Confirm.	This is not part of ICCS stack but part of DC management toolset.
Vol.2	839	Railtel Corporations of India Ltd	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workloads that refer to automating business processes through events/ batch / streaming modes.e.g Business process in smart cities could refer to transfer of data from IoT devices to the BI layer. Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	840	Railtel Corporations of India Ltd	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Since workloads are configured at unitary levels encompassing API's, procedures, scripts, applications- it is next to impossible to determine costs associated, Request you to please rephrase this as "The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into configuration of each workload"	This is not part of ICCS stack but part of DC management toolset.

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Vol.2	841	Railtel Corporations of India Ltd	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	9. Should be additional wireless APs can be registered and configured	Request you to please move this ask from EMS section to Wireless Controller section. As Wireless APs are primarily configured and registered to Wireless Controller, NMS/EMS tool can monitor the fault and performance of network devices using SNMP.	Clause deleted
Vol.2	842	Railtel Corporations of India Ltd	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	11. Comprehensive event log provides network issue resolution. Solution should be inclusive with hardware, OS, patches, database and any other licenses for their monitoring etc.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications. Please confirm.	Tender conditions shall prevail
Vol.2	843	Railtel Corporations of India Ltd	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	134 It should have an integrated CMDB for strong Change Management capabilities. Should integrate with existing Helpdesk deployed.	Integrating with existing Helpdesk tool will restrict the participation. And ownership of integration with existing Helpdesk will be a challenge for bidder. It is suggested to remove this clause. Also, solution from Single OEM for monitoring and Helpdesk, will give seamless integration capabilities, Out of box Connectors, Better root cause navigation and Intelligent ticketing, better event enrichment and noise suppression. Bidder should be free to propose new Helpdesk ITIL 2011 based solution with single unified CMDB for better management.	Tender conditions shall prevail
Vol.2	844	Railtel Corporations of India Ltd	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	It is recommended, Server Automation solution should analyze servers for Patching, compliance with internal policies or industry standards, based on powerful compliance rules out-of-the-box. Are you also looking for such functionalities? Please Confirm	102. Configuration and patch management: Management platform must provide a tool which tracks and analyses hardware, database, OS, application server software configurations and patches. Bidder may provide separate tool to achieve the desired requirement. All the proposed tool should be integrated with EMS.
Vol.2	845	Railtel Corporations of India Ltd	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	201 The solution should provide workload automation that provides full stack visibility and control:- resources aware, Application aware, Database aware	It is recommended, Server Automation solution should allow administrators to configure and schedule tasks from a centralized console, including rolling out software, upgrading operating systems, executing commands remotely and targeting computers based on specific hardware and software attributes. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	846	Railtel Corporations of India Ltd	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	29. Should have ability to correlate events across the entire infrastructure components of SDC.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events. Please confirm.	29. Should have ability to correlate events across the proposed Data Center infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events.
Vol.2	847	Railtel Corporations of India Ltd	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	125. Proposed incident tracking system would be ITIL 2011compliant	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Complete 10+ ITIL 2011 process flow for Incident, problem, Change and release, Asset and Service level Management. Please confirm.	Tender conditions shall prevail

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Vol.2	848	Railtel Corporations of India Ltd	Page 180, Network Management System / Enterprises Management System(NMS/EMS)	Page 180, Network Management System / Enterprises Management System(NMS/EMS)	130. It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Helpdesk with Mobile based App so that all the tickets can be effectively manage and monitor for timely action by the Agent. Also, User can raise requests at their ease from Mobile App instead of login to Web URL. Please Confirm.	Tender conditions shall prevail
Vol.2	849	Railtel Corporations of India Ltd	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	9. Asset / Inventory Management	As a good practice, Asset and Inventory management data should be stored on Single CMDB, for effective management and mapping of Assets, same CMDB should be accessed by Helpdesk to any asset related raise incidents/tickets. The Common database will help in seamless tracking and management of assets. Are you looking for Common database or CMDB of helpdesk and Asset Management? Please Confirm	9. Asset / Inventory Management shall be stored on single CMDB.
Vol.2	850	Railtel Corporations of India Ltd	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended for smooth flow of automation process, "The solution should orchestrate the entire IT workload execution of jobs & processes automatically without manual intervention. It should have the ability to configure recovery of jobs in case of failure." Are you looking for such functionalities? Please Confirm.	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	851	Railtel Corporations of India Ltd	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should provide configurable Business workflows for tasks such as management of data applications. The solution should be able to use learning methods to forecast jobs by monitoring workflows. The Solution should map workflows to business services and their respective deadlines and allows for proactive alerting when a workflow is in danger of missing an SLA. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	852	Railtel Corporations of India Ltd	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should have a consolidated view of all jobs and IT process workloads in a centralized dashboard. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	853	Railtel Corporations of India Ltd	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	General Query	It is recommended, Server Automation solution should be able to scan all servers (Windows, Linux and Unix OS to be supported by Server Automation solution) with in the network for missing security patches and compliance. The detection shall be automated and shall trigger the patch through central system. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	854	Railtel Corporations of India Ltd	Page 112.5.2.2.1 Integrated Command Control Platform	Page 112.5.2.2.1 Integrated Command Control Platform	5. The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	855	Railtel Corporations of India Ltd	Page 115.5.2.2.1 Integrated Command Control Platform	Page 115.5.2.2.1 Integrated Command Control Platform	48 Adapter studio must have capability to consume data from multiple sources with different communications such as web services, Web Sockets, FTP, Fileserver, MQTT, real-time streams, etc.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	856	Railtel Corporations of India Ltd	Page 252.5.4.3.5 System Management Requirements	Page 252.5.4.3.5 System Management Requirements	i) The system shall be compiled with automated File Transfer Protocol (FTP) software; this software will push generated speeding incident files to the central control room automatically as they are generated. The software will use the FTP protocol.	It is important that various interactions in the smart city processes necessitate a lot of file transfers. Also it is important that secure channels to send or receive files through HTTPS, SFTP methods. Are you looking for such functionalities? Please Confirm	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	857	Railtel Corporations of India Ltd	New Request	New Request		The OEM should provide the specific solution designing & Core implementation (OEM Low Level Design, DC Core Implementation) support to make sure that their supplied technology & products work as per the design objectives.	Tender conditions shall prevail
Vol.2	858	Railtel Corporations of India Ltd	New Request	New Request		Provide an Operations Support Manager for every year from OEM who is familiar with (Customer) business, processes, and technical support history to continually monitor customer technical support needs, track every open service request, and make sure that IT resources, both at OEM and within Customer organization, are aligned appropriately to resolve issues quickly and completely.	Tender conditions shall prevail
Vol.1	859	Siemens Limited India	Volume I, Clause 1. Introduction, Sub Clause 1.3: Bid Data Sheet, Serial Number 13	7	Last date and time for Submission of Pre-Bid Queries 22-06-2020 Up to 18.00 Hrs.	Please extend the last date of submission of queries by 7 days. The time of 10 days is very short to have a comprehensive analysis of the tender requirements and we need more time to talk with partners / sub-contractors to come out with further queries.	Tender conditions shall prevail.
Vol.1	860	Siemens Limited India	Volume I, Clause 1. Introduction, Sub Clause 1.3: Bid Data Sheet, Serial Number 16	8	Last Date and time for on line submission of Bid 13-07-2020 Up to 15.00 Hrs.	As per the clause, online submission is scheduled on 13th July 2020. However, considering the current circumstances of COVID-19, we are all forced to work from home with limited access to stationary / scanner / printers. Hence we request you to kindly extend the date of submission by atleast 45 days.	Tender conditions shall prevail.
Vol.1	861	Siemens Limited India	Volume I, Clause 1. Introduction, Sub Clause 1.4: Definitions/Acronyms, Serial Number 12: Consortium	9	Consortium : A consortium consists of multiple members (not more than Three parties - Lead Bidder + maximum 2 Consortium members) entering into a Consortium Agreement for a common objective of satisfying the Authority requirements & represented by lead member of the consortium, designated as a "Lead Bidder". Also, the responsibility for successful execution of the entire project will be that of the defined Lead bidder. The consortium members should have relevant experience of executing similar roles and responsibilities in past as stated in the MoU in Annexure 6. Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ division/ sub division/ branch business unit. For the purpose of technical evaluation, net worth and turnover of parent, associate or other related entity will not be considered.	Please confirm if the experience of Parent company/ Subsidiary /sister concern company is valid for the purpose of Technical Evaluation	Yes
Vol.1	862	Siemens Limited India	Volume I, Clause 1. Introduction, Sub Clause 1.4: Definitions/Acronyms, Serial Number 12: Consortium	9	Consortium : A consortium consists of multiple members (not more than Three parties - Lead Bidder + maximum 2 Consortium members) entering into a Consortium Agreement for a common objective of satisfying the Authority requirements & represented by lead member of the consortium, designated as a "Lead Bidder". Also, the responsibility for successful execution of the entire project will be that of the defined Lead bidder. The consortium members should have relevant experience of executing similar roles and responsibilities in past as stated in the MoU in Annexure 6. Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ division/ sub division/ branch business unit. For the purpose of technical evaluation, net worth and turnover of parent, associate or other related entity will not be considered.	Please change 100% subsidiary/divison/sub division/ branch business unit to 'majority shareholder' alternatively 'has controlling stake'	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	863	Siemens Limited India	Volume I, Clause 2. Instruction to Bidders, Sub Clause 2.27: Sub-Contracting	27	<p>Sub-Contracting The bidder shall not be allowed to sub-contract work, except for the following: a) Fiber optic network build, other cabling and fixtures work, and all civil work during implementation. b) Facility Management Staff at Command Control Center & City Operation Center.</p> <p>Sub-contracting shall be allowed only with prior written approval of Authority. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the lead bidder. The lead bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to Authority.</p>	<p>Please clarify that the definition of Sub-Contracting does not refer to equipment individually, like CCTV, RLVD etc.</p> <p>We request you to also add "c.) Installaion, erection, cabling and commissioning support"</p>	Tender conditions shall prevail
Vol.1	864	Siemens Limited India	Volume I, Clause 2. Instruction to Bidders, Sub Clause 2.29: Eligible Goods and Services, and OEM Criteria, h.)	28	<p>The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.</p>	<p>We request you to please also consider outdoor projects like Airports, Metro, Railways and Large Campus</p>	Projects under any government department shall be considered as specified in the criteria.
Vol.1	865	Siemens Limited India	Volume I, Clause 2. Instruction to Bidders, Sub Clause 2.29: Eligible Goods and Services, and OEM Criteria, h.)	28	<p>The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.</p>	<p>We request you to allow Global project references to demonstrate the latest technology that can also be beneficial in the Indian context, which will be elaborated in the technical offer, which are also city wide command and control projects for city and government authorities</p>	Tender conditions shall prevail.
Vol.1	866	Siemens Limited India	Volume I, Clause 2. Instruction to Bidders, Sub Clause 2.29: Eligible Goods and Services, and OEM Criteria, i.)	28	<p>The ICCS Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.</p>	<p>We request you to please also consider outdoor projects like Airports, Metro, Railways and Large Campus</p>	Projects under any government department/ agency shall be considered as specified in the criteria.
Vol.1	867	Siemens Limited India	Volume I, Clause 2. Instruction to Bidders, Sub Clause 2.29: Eligible Goods and Services, and OEM Criteria, i.)	28	<p>The ICCS Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.</p>	<p>We request you to allow Global project references to demonstrate the latest technology that can also be beneficial in the Indian context, which will be elaborated in the technical offer, which are also city wide command and control projects for city and government authorities</p>	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	868	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.5: Pre-Qualification Criteria, Serial No. 2B	34	<p>Eligibility Criteria: Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. .</p> <ul style="list-style-type: none"> o ICT Infrastructure o IT system integration services <p>Documentary Evidence: The Sole Bidder or the Lead Bidder and all other Members of Consortium should submit: 1. Audited financial statements for the last three financial years 2. Certificate from the Statutory Auditor/ CA on turnover details from the "specific business areas" over the last three (3) financial years</p>	We request you to confirm that signaling/telecom projects in Airports, Metro, Railways and Large Campuses which are of a similar nature as ICT infrastructure or IT system integration services can also be considered for calculating average annual turnover from specific business areas	Refer to AddendumVI
Vol.1	869	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.5: Pre-Qualification Criteria, Serial No. 8	35	<p>Eligibility Criteria: The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date</p> <p>Note: * In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. * In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility.</p> <p>Documentary Evidence: Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract) Details on the supporting document requirement is provided below under Note (point 1 to 7)</p>	We request you to please consider Global project references	Tender conditions shall prevail.
Vol.1	870	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.5: Pre-Qualification Criteria, Serial Number 9	36	<p>Eligibility Criteria: The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.</p> <p>Documentary Evidence: Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract) Details on the supporting document requirement is provided below under Note (point 1 to 7)</p>	We request you to also consider Global references for outdoor projects like Airports, Metro, Railways and Large Campus	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	871	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.1: Technical Bid Criteria & Evaluation, Serial No. B1: City Surveillance Projects	40	<p>"The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.</p> <p>Marks shall be allotted as below: " Number of ProjectsMarks >=3 Projects15 2 Projects12 1 Projects10 "Maximum Marks allotted : 15</p> <p>Supporting documents required: Sole Bidder or consortium Ref. Note 1 to 7 under section: 3.5 of RFP volume I"</p>	We request you to please consider Global project references	Refer to AddendumVI
Vol.1	872	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.1: Technical Bid Criteria & Evaluation, Serial No. B2: Integrated Traffic Management System	40	<p>"The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components:</p> <p>* Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND * RLVD System / ANPR System</p> <p>Marks shall be allotted as below: " Number of ProjectsMarks >=3 Projects10 2 Projects8 1 Projects6 "Maximum Marks allotted : 10</p> <p>Supporting documents required: Sole Bidder or consortium Ref. Note 1 to 7 under section: 3.5 of RFP volume I"</p>	We request you to please consider Global project references	Refer to Addendum 7 (Sl. No. 21)
Vol.1	873	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.1: Technical Bid Criteria & Evaluation, Serial No. B4.1: Design, Build and Maintenance of Integrated Command Control Center (Bidder Criteria)	41	<p>"The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date) "</p> <p>Number of ProjectsMarks >=3 Projects5 2 Projects4 1 Projects3 "Maximum Marks allotted : 5</p> <p>Supporting documents required: Sole Bidder or consortium Ref. Note 1 to 7 under section: 3.5 of RFP volume I"</p>	We request you to please consider Global project references	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	874	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.1: Technical Bid Criteria & Evaluation, Serial No. B4.2: Integrated Command and Control Centre Solution (OEM Criteria)	42	<p>No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid.</p> <p>Marking will be done on Pro-rata basis.</p> <p>Maximum Marks allotted: 05</p> <p>Supporting document required: Copy of Completion Certificates from Client mentioning name of CCC Software.</p>	We request you to please consider Global project references	Refer to AddendumVI
Vol.1	875	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.1: Technical Bid Criteria & Evaluation, Serial No. B5: VMS (OEM Criteria)	42	<p>No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid.</p> <p>Marking will be done on Pro-rata basis.</p> <p>Maximum Marks allotted: 05</p> <p>Supporting document required: Copy of Completion Certificates from Client mentioning name of VMS Software.</p>	We request you to please consider Global project references	Refer to AddendumVI
Vol.1	876	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.1: Technical Bid Criteria & Evaluation, Serial No. B6: Design, Build and Maintenance of Data Centre	42	<p>"The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Data Centre Project for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 10 Crores per projects during last Seven (7) years (as on Bid Submission date)</p> <p>"</p> <p>Number of ProjectsMarks >=3 Projects5 2 Projects4 1 Projects3 "Maximum Marks allotted : 5</p> <p>Supporting documents required: Sole Bidder or consortium Ref. Note 1 to 7 under section: 3.5 of RFP volume I"</p>	We request you to please consider Global project references	Refer to AddendumVI
Vol.1	877	Siemens Limited India	Volume I, Clause 3. Selection Process for Bidder, Sub Clause 3.6.3: Key Personnel Criteria, Serial No. 6: Integrated Traffic Management Expert	47	<p>Intergrated Traffic Management Expert</p> <p>a. Education: Full time M.Tech/ B.E./ B.Tech or Graduation/Post Graduation in Transportation from a reputed institute</p> <p>b. Total Experience: At least 10 years in IT sector</p> <p>c. Should have experience in designing & implementing Integrated Traffic Management system for minimum 2 projects.</p>	We request you to please consider 'Total experience: At least 10 years in IT/Traffic Management sector'	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	878	Siemens Limited India	Volume II, Clause 5.4.1.2 B,G,K Vehicle detector	208	B. All signal controllers under Adaptive Traffic Control System shall be provided with inputs from non-intrusive vehicle detection sensors/ cameras for detecting demand and communications equipment to send the demand data and to receive instructions on the control strategy in near real-time. G. Camera based vehicle detectors to assist operation of traffic signal controller and generate counts, demands and extensions for right-of-way for identifying optimal signal timings. K. ATSC should be able to sense the volume of the Traffic automatically at each of the junction movement nodes through the means of camera algorithms and AI analytics	We request you to please also consider (2D / 4D) RADAR based detectors which are weather resistant considering the terrain of Guwahati and the anticipated high rainfall which might not be suitable for a camera based detection system. RADARs also require very low maintenance. They are being used world over in global projects as well in projects in India.	Refer 4D RADAR SPECS
Vol.2	879	Siemens Limited India	Volume II, Clause 5.4.1.2 J Control strategy	208	"Composite Signal Control Strategy" application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	We request to allow globally proven SCOOT strategy, having more than 200 implementation globally and which is globally most studied/tested system, for adaptive traffic control.	Clause stands deleted
Vol.2	880	Siemens Limited India	Volume II, Clause 5.4.1.3 Table Sr. No. 1	210	Identify the critical junction of a corridor or a region based on maximum traffic demand and saturation. For this purpose, identify the vehicles standing in the queue on the junction based on their presence on stop line using vehicle detectors and then optimize its timing to reduce the queue formation by capturing required data from Vehicle Detectors for ATSC functionality.	We request critical junction be defined during operations dynamically and not once for all as critical junction can change due to some incident(s)/events etc. We recommend that the critical junction identification of a corridor is kept dynamic and not static.	Tender conditions shall prevail
Vol.2	881	Siemens Limited India	Volume II, Clause 5.4.1.3 Table Sr. No. 2,3	210	2 The system shall have a distributed architecture of sub-systems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub- systems (minimum 2 and up to 250). Sub-areas are to be controlled by a regional computer. 3. Up to 100 users should be able to connect to the central ATSC system and up to 30 users to regional computer controlling sub-systems with varying levels of security and access at the same time the proposed ATSC system shall be scalable to include any additional junctions in the future.	We request you to remove this requirement as this is specific to a particular system architecture of a particular OEM. All OEMs have their own system architecture and this provided at the Detailed Design Phase. We recommend to keep the requirement open "Distributed" OR "Centralized" based on the OEM's technical solution.	The system shall have a distributed architecture of sub- systems so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 100 Junctions and scalable to 256 Junctions Min 25 users should be able to connect to the central ATSC system and controlling with varying levels of security and access at the same time. The proposed ATSC system shall be scalable to include any additional junctions in the future
Vol.2	882	Siemens Limited India	Volume II, Clause 5.4.1.3 Table Sr. No. 4-13	210-212	4. The critical junction cycle time shall be used as the group cycle time i.e. cycle time common to all intersection in that corridor or region. 13. When a link is established between two subsystems, the cycle generator of the subsystem linking is speeded up or slowed down (i.e. the cycle time of the subsystem is increased or decreased) until the specified relationship between the two subsystems is achieved. If a junction in a subsystem is required to change its grouping frequently depending on traffic conditions, it should be dynamically linked or delinked with other subsystems.	These clauses describe adaptive traffic control algorithm specific to an OEM's offerings and do not bring out the functional requirement of the Adaptive Traffic Control System. Every OEM has their own algorithms to implement various functional strategies. Please allow vendor to provide strategy as per his algorithm and kindly change the given requirements to functional requirements with desired KPIs only instead of providing the design requirements which is restrictive. As per various studies, other systems like SCOOT have been proven globally to be equally / more efficient than the requested design criterion.	Vendor may propose the architecture as per the solution maintaining the purpose.
Vol.2	883	Siemens Limited India	Volume II, Clause 5.4.1.3 Table Sr. No. 14	212	Propose timing plans to every intersection under the ATSC in every Cycle	SCOOT does not use Signal plans but provides signal timing within cycle to each approach based on vehicle demand. Please allow SCOOT algorithm.	Tender conditions shall prevail
Vol.2	884	Siemens Limited India	Volume II, Clause 5.4.1.4 Table Sr. No. 18	220	18. Cycle Plans - The controller shall have facility to configure 10 cycle plans and the Amber flashing / red flashing plan. It shall be possible to define different stage switching sequences in different cycle plans. The controller shall have the capability for a minimum of 20 cycle switching per day in fixed mode of operation.	We request you to limit the different stage switching to 16 cycle switching per day in fixed mode operation which is sufficient as per our experience over 200 traffic installations in various traffic environments globally	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	885	Siemens Limited India	Volume II, Clause 5.4.1.4 Table Sr. No. 19	220	19. Day Plan – The controller shall have facility to configure each day of the week with different day plan. It shall also be possible to set any of the day plans to any day of the week. The controller shall have the capability to configure 20 days plans.	We request you to limit the capability of the controller to configure maximum 16 day plans which is sufficient as per our experience over 200 traffic installations in various traffic environments globally.	Tender conditions shall prevail
Vol.2	886	Siemens Limited India	Volume II, Clause 5.4.1.4 Table Sr. No. 20	220	20. Special Day Plans- The controller shall have facility to configure a minimum of 20 days as special days in a calendar year.	We request you to limit the capability of the controller to configure maximum 16 day plans as special day in a calendar year which is sufficient as per our experience over 200 traffic installations in various traffic environments globally.	Tender conditions shall prevail
Vol.2	887	Siemens Limited India	Volume II, Clause 5.4.1.4 Technical specifications of traffic controller Table Sr. No. 4	221	c) Signal head compatibility: LED 230VAC or 24VDC with dimming of various intensity levels	Dimming is required for 230 V signals while for 24 V DC signal heads dimming is not required.	Tender conditions shall prevail
Vol.2	888	Siemens Limited India	Volume II, Clause 5.4.1.4 Technical specifications of traffic controller Table Sr. No. 5,6	221	d) 32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB. 6 g) Controller clock frequency of min of 100MHz.	Our understanding is that USB port is needed to have access the controllers for maintenance activities. Our controller also has a USB port. However, we don't understand the requirement of providing additional memory. Please clarify.	Tender conditions shall prevail
Vol.2	889	Siemens Limited India	Volume II, Clause 5.4.1.4 Table Technical specifications of traffic controller Sr. No. 15	222	EN 50556/AS/NZS ISO 9001:1994 for design & servicing. AND EN 12675/IEC 60068 for functional safety, EN 55024:2010 & AS/NZS 60950/BS EN 61000-3-3 or equivalent for voltage fluctuations, or equivalent	We request to allow controllers following these or equivalent national standards	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,
Vol.2	890	Siemens Limited India	Volume II, Clause 5.4.1.5 Technical specifications of video thermal camera	223	For detection of vehicles a camera/thermal detector has been specified.	We request you to please also consider (2D / 4D) RADAR based detectors which are weather resistant considering the terrain of Guwahati and the anticipated high rainfall which might not be suitable for a camera based detection system. RADARs also require very low maintenance. They are being used world over in global projects as well in projects in India.	The vehicle detector shall be 4D Radar / thermal Camera which can cover minimum 4 lanes and upto 130 mts, with high definition for Count, classification and Queue detection of all the vehicles passing through Junction in all day and night conditions. Vehicle detector shall be able to operate with more than 95 % Accuracy in all weather conditions like Fog, Rain and dust storm, road surface temperature without without degrading its performance
Vol.2	891	Siemens Limited India	Volume II, Clause 12.7 BOM Sr.No. 1.2.2	295	Countdown timers	For adaptive traffic control systems, it is recommended that Countdown timers are not used as the systems like SCOOT have the ability to change the signal times during the cycle instead of waiting for one cycle to complete. This makes the system more efficient with a faster response to reduce traffic volumes. Further this requirement has not been specified in technical requirements and hence be deleted.	Item mentioned in BOM stands deleted
Vol.2	892	Siemens Limited India	Volume II, Clause 12.7 BOM Sr.No. 1.2.3	295	Vehicle detectors	We request you to please also consider (2D / 4D) RADAR based detectors which are weather resistant considering the terrain of Guwahati and the anticipated high rainfall which might not be suitable for a camera based detection system. RADARs also require very low maintenance. They are being used world over in global projects as well in projects in India.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	893	Siemens Limited India	Gen.	295	Junction Autocad drawings	For our design work we shall need to the scale autocad drawings for the junctions. Please confirm you will provide us the drawings. It will not be possible in such small project execution time to create autocad junction drawings which will involve huge cost and time.	Detailed site survey can be done by the implementing agency to get the desired details
Vol.2	894	Siemens Limited India	Volume II, Clause 12.7 BOM	395	Command Centre Integration	Please provide integration parameters to estimate integration costs.	ICCC platform shall provide all solution
Vol.2	895	Siemens Limited India	Volume II, Clause 12.7 BOM cl. 1.2.14	395	Off line simulation software	Please confirm that use of simulation software shall be offline only. Please confirm scope of offline simulation software is only supply, installation. Please confirm that no simulation studies are in bidder's scope.	Tender conditions shall prevail
Vol.2	896	Siemens Limited India	Volume II, Clause 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT Cl. 1	347	The specifications mentioned for various IT / Non-IT components are indicative requirements and should be treated for benchmarking purpose only. SIs are required to undertake their own requirement analysis and may propose higher specifications that are better suited to the requirements.	We refer to this statement under Clause 8.0 and the compliance requested against clause nos. 5.4.1.3 which are in conflict. The clauses describe adaptive traffic control algorithm specific to an OEM's offerings and do not bring out the functional requirement of the Adaptive Traffic Control System. Every OEM has their own algorithms to implement various functional strategies based on their own architecture and benchmarking will not be possible as such. E.g. Distributed v/s centralized system, providing signal time plans v/s providing timings within the cycle are few cases which cannot be benchmarked with each other as the underlying architecture of various OEMs are different.	Vendor may propose the architecture as per the solution maintaining the distributed architecture requirement to ensure Minimised impact on total system when individual components fail.
Vol.3	897	Siemens Limited India	Volume 3/GCC Clause 14	17	SI shall bear all taxes and duties etc. levied or imposed on SI under the Contract including but not limited to, Customs duty, Excise duty, GST, , any other taxes and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire contract period.	Please confirm if the Project qualifies under Project Import Benefit as per Chapter 98.01 of Customs Tariff Act to avail benefit of concessional rate of custom duty. Please confirm if the recommendation letter endorsed by Secretary of State Govt. under Project import regulations.	We hereby state that some part of the project may come under benefit as per Custom Tariff Act. We do not have any letter endorsed by the competent authority.
Vol.3	898	Siemens Limited India	Volume 3/GCC Clause 14	17	SI shall bear all taxes and duties etc. levied or imposed on SI under the Contract including but not limited to, Customs duty, Excise duty, GST, , any other taxes and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire contract period.	Please confirm whether the contract qualifies as works contract in case Contract Price to be quoted inclusive of GST.	The Contract is the Works Contract. The rate quoted by the bidder should be inclusive of all taxes including Goods and Service Tax -GST
Vol.3	899	Siemens Limited India	Volume 3/GCC Clause 17.2	19	If the delay occurs due to circumstances beyond control of SI such as strikes, lockouts, fire, accident, defective materials, delay in approvals or any cause whatsoever beyond the reasonable control of SI, a reasonable extension of time shall be granted by the Authority.	In case of delays, we request you to reimburse the cost incurred by the contractor due to the delay	Tender Conditions shall prevail
Vol.3	900	Siemens Limited India	Volume 3/GCC Clause 22.4	21	Force Majeure shall not apply to any obligation of the Owner to make payments to the Contractor	In case of delays, we request you to reimburse the cost incurred by the contractor due to the delay	Refer SI 3.02 of Addendum 1
Vol.3	901	Siemens Limited India	Volume 3/GCC Clause 29	24	Limitation of Liability	Request to add the below clause in addition to the existing clauses: Maximum amount of total liability is upto 10% of Total Contract Amount	Refer SI 3.01 of Addendum 1
Vol.3	902	Siemens Limited India	General	24	Funding	It is requested to share the funding details of the Project.	Clarification may not be required., To be discussed with GSCL

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Vol.2	903	Siemens Limited India	Volume II, 4: Project Scope of Work, 4.6.4: Miscellaneous, Serial No. 4 and 5	24	<p>4. SI shall also get comprehensive insurance from reputed insurance company for the project duration for all the equipment's / components installed under this project.</p> <p>5. SI shall ensure all the equipment's installed in the outdoor locations are vandal proof and in case the equipment's get damaged /stolen for reasons whatsoever, it shall repair/replace the same in the specified time as per SLAs at no extra cost to the Authority. All such costs shall be factored in the comprehensive insurance of field equipment for the duration of the contract.</p>	Kindly mention that the insurance during Maintenance period will be limited to Spares only.	Tender conditions shall prevail
Vol.1	904	NEC Technologies India Pvt. Ltd	Volume I, Section 3.5 Prequalification Criteria, Clause no. 3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	We request the following changes in the said clause:- The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 7 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India or abroad	Refer to AddendumVI
Vol.1	905	NEC Technologies India Pvt. Ltd	Volume I, Section 3.5 Prequalification Criteria, Clause no. 8	35	<p>The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date</p> <p>Note:</p> <ul style="list-style-type: none"> <input type="checkbox"/> In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. <input type="checkbox"/> In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility. 	<p>We request the following changes in the said clause:-</p> <p>The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India or abroad during last Seven (7) years as on Bid Submission date</p> <p>Note:</p> <ul style="list-style-type: none"> <input type="checkbox"/> In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. <input type="checkbox"/> The experience of wholly owned subsidiary/ parent company/sister concern/ Group companies having same ultimate parent would be considered for eligibility. 	Tender conditions shall prevail.
Vol.1	906	NEC Technologies India Pvt. Ltd	Volume I, Section 3.5 Prequalification Criteria, Note -2	37	<p>In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, than the following additional documents are required:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company. <input type="checkbox"/> Shareholding pattern of the bidding entity as per audit reports. 	<p>We request the following changes in the said clause:-</p> <p>In case the experience shown is that of the bidder's parent / subsidiary /sister concern / Group companies having same ultimate parent, than the following additional documents are required:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company. <input type="checkbox"/> Shareholding pattern of the bidding entity as per audit reports. 	Tender conditions shall prevail
Vol.1	907	NEC Technologies India Pvt. Ltd	Volume I, Section 3.5 Prequalification Criteria, Note -6	37	<p>Bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or Sister Concern only.</p> <p>a) a 'holding company', in relation to one or more other companies, means a company of such companies are subsidiary companies; and</p> <p>b) a 'subsidiary company' in relation to any other company (that is to say the holding company), means a company in which the holding company— (i) controls the composition of the Board of Directors; or (ii) exercises or controls more than one-half of the total share capital at its own</p> <p>c) a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (i) controls the composition of the Board of Directors; or (ii) exercises or controls more than one-half of the total share capital at its own</p>	<p>Bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or Sister Concern/ Group COmpanies having same ultimate parent only.</p> <p>a) a 'holding company', in relation to one or more other companies, means a company of such companies are subsidiary companies; and</p> <p>b) a 'subsidiary company' in relation to any other company (that is to say the holding company), means a company in which the holding company— (i) controls the composition of the Board of Directors; or (ii) exercises or controls more than one-half of the total share capital at its own</p> <p>c) a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (i) controls the composition of the Board of Directors; or (ii) exercises or controls more than one-half of the total share capital at its own</p> <p>d) Group Companies having same ultimate parent</p>	Tender conditions shall prevail

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Vol.1	908	NEC Technologies India Pvt. Ltd	Volume I, Section 3.5 Prequalification Criteria, Note -7	38	In case where the bidder is dependent upon the technical experience of the subsidiary company or the parent company or the sister concern, with a view to ensure commitment and involvement of the parent/ subsidiary/sister company for successful execution of the contract, the participating bidder should enclose (i) an Agreement (as per format enclosed at Annexure 10 of this Volume) between the bidder and its parent / subsidiary/Sister concern company for fulfilling the obligation and deployment of expert during implementation phase for the Track/Component for which the experience is being used and (ii) Guarantee (as per format enclosed at Annexure 11 of this Volume) from the parent/ subsidiary/sister concern company in favor of GSCL.	In case where the bidder is dependent upon the technical experience of the subsidiary company or the parent company or the sister concern or group companies having same ultimate parent, with a view to ensure commitment and involvement of the parent/ subsidiary/sister company for successful execution of the contract, the participating bidder should enclose (i) an Agreement (as per format enclosed at Annexure 10 of this Volume) between the bidder and its parent / subsidiary/Sister concern company for fulfilling the obligation and deployment of expert during implementation phase for the Track/Component for which the experience is being used and (ii) Guarantee (as per format enclosed at Annexure 11 of this Volume) from the parent/ subsidiary/sister concern company in favor of GSCL. an undertaking on their Parent's company letter head duly signed by its Statutory Auditor/Chartered Accountant/Company Secretary/Board of Director authorizing the bidder to use the technical experience of the parent / 100% subsidiary/Sister concern/Group Companies having ultimate parent as the case may be for Government of India projects.	Tender conditions shall prevail
Vol.1	909	NEC Technologies India Pvt. Ltd	Volume I, 3.5. Pre Qualification Criteria	36	Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member	Kindly consider Certificate signed by the Company Secretary/statutory Auditor/certifying the project details, its value, completion status etc in absence of PO/Completion letter.	Bidder to Refer Point 1.04 of Amendment 01
Vol.1	910	NEC Technologies India Pvt. Ltd	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	40	B2 (Integrated Traffic Management System) : The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System	ATCS and RLVD/ANPR system being two different technologies kindly allocate separate marking for ATCS and RLVD/ANPR. OR kindly Consider " Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR <input type="checkbox"/> RLVD System / ANPR System. ATCS scope of Guwahathi is for 64 Junctions, considering the same please increase the minimum project value to 10 Cr. Also ATCS being a new technology and Guwahathi having larger no of junctions , kindly also consider ATCS OEM experience under this clause	Refer to AddendumVI
Vol.1	911	NEC Technologies India Pvt. Ltd	3.6.1 Technical Bid Criteria & Evaluation	42	VMS (OEM Criteria)	ATCS being a important and crucial component, please include OEM criteria in Technical evaluation also and allocate suitable marks.	Tender conditions shall prevail.
Vol.1	912	NEC Technologies India Pvt. Ltd	3.6.1 Technical Bid Criteria & Evaluation	44	Proof of Concept (POC)	Please include PoC for ATCS solution also using Simulation Tool.	Tender conditions shall prevail.
Vol.1	913	NEC Technologies India Pvt. Ltd	3.6.1 Technical Bid Criteria & Evaluation Page 44	44	Proposed resources (Max. 10 marks)	Please consider ATCS Expert also from Bidder/OEM.	Tender conditions shall prevail.
Vol.2	914	NEC Technologies India Pvt. Ltd	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	208	"Composite Signal Control Strategy" application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	"Composite Signal Control Strategy" being a proprietary application from CDAC, you are requested to kindly remove this clause and allow fair chance to all the global technologies.	Clause stands deleted
Vol.2	915	NEC Technologies India Pvt. Ltd	Volume 2 4.6.2 Existing Traffic Signal system	23	The infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems which are proposed and required under the scope of this project. The dismantled infrastructure shall be delivered at the GSCL designated location without damage at no extra cost.	As per RFP, dismantling of existing traffic infrastructure and their shifting to designated ware house location should be done at no extra cost. In the RFP details of these existing traffic signals is not available, so details of existing junctions should be included. Also as this activity involves a lot of expenditure in the form of machinery, manpower and transportation while dismantling the items and their shifting to some designated ware house, you are requested to add this whole activity as a separate line item in the Bill of Material.	Tender conditions shall prevail

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Vol.2	916	NEC Technologies India Pvt. Ltd	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	N.XII. Make available the network status and report viewing on Web.	This requirement is contradictory with the specification given on s. no. 27 on page 212 of RFP vol. 2 where it asks "Make available the network status and report viewing on the desktop GUI as per RFP" . Please clarify.	Clause to be read as Make available the network status and report viewing on the operator console
Vol.2	917	NEC Technologies India Pvt. Ltd	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) & 5.4.1.8	209 & 227	O. Pedestrian Actuated Traffic Control Signals at places where a large number of people cross the road with heavy vehicular traffic (near Schools, Hospitals, Shopping Centers, places of worship and similar other establishments). P. The pelican signals shall be installed on two diagonally opposite corners of the Zebra Crossing and shall be supported with facilities for the pedestrians to actuate traffic signal control. 5.4.1.8 Pedestrian / Pelican Traffic Signal Controller	In the RFP Pedestrian/ Pelican Traffic signal controllers are asked for mid block kind of junctions near the hospital, schools etc. but their quantity is not mentioned. Kindly provide the details of pelican junctions and include their quantity with traffic lights,poles etc. in the Bill of Material.	Please read Clause 'O' as Any additional item required to fulfil the functional requirement of pedestrian actuated traffic signals at selected junctions shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement " 'P' Clause stands deleted 5.4.1.8 Cluse stands deleted
Vol.2	918	NEC Technologies India Pvt. Ltd	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any thirdparty traffic controller that is UG405 or NTCIP or any other standard communication protocol compliant.	As per RFP Clause "4.6.2 Existing Traffic Signal system" all the existing hardware including traffic lights poles, controller etc. will be dismantled and replaced by the new items. For the ATCS system it needs an ATCS Application and its dedicated type of traffic controller, any other make of traffic controller which is not supported by this ATCS Application can not be controlled through the same. Hence request you to kindly modify the clause as mentioned below: Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol.	Clause to be read as ATSC shall use UG405 or NTCIP or OCIT or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any third-party traffic hardware that is UG405 or NTCIP or any other standard communication protocol compliant.
Vol.2	919	NEC Technologies India Pvt. Ltd	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.2 Countdown timer : Nos 226	In the RFP specifications of Count Down Timers are not given anywhere, secondly count down timers are suitable for Non Adaptive system only where Cycle time and stage time remains constant. But here the system to be deployed is Adaptive in which signal timing will keep on changing based on real time detection data. Request you to kindly remove this item from the Bill of Material.	Item mentioned in BOM stands deleted
Vol.2	920	NEC Technologies India Pvt. Ltd	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 226 1.2.10 Pedestrian lamp heads – Walk Man : Nos 226	As per the list of Traffic Junctions given in RFP, it is observed that out of 64 ATCS junctions, 33 junctions are Three Arm, 28 junctions are Four Arm and 3 junctions are Five Arm type. So for all these junction types, 1 primary vertical LED Aspect, 1 primary horizontal LED Aspect and 1 secondary LED aspects should be there for vehicles in each arm for better visibility of lights. Also there should be 2 LED aspects for pedestrians on both sides for each arm. Hence the quantity of some items mentioned in the Bill of Material should be modified as given below: 1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 485 1.2.6 Traffic Light Aspects – Red : Nos 678 1.2.7 Traffic Light Aspects – Amber : Nos 678 1.2.8 Traffic Light Aspects – Green : Nos 1737 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452

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Vol.3	921	NEC Technologies India Pvt. Ltd	Volume 3 43.6.4. City surveillance & ICT Component related performance levels	38	8. Bidder should keep minimum 10% spare at any given point of project execution. Infrastructure equipment should be replaced or repaired after complaint logging from Authority officials Measurement Tool: System generated call log at Helpdesk	ATCS Controllers is of high value item and also has MTBF more then 9 years. Hence 10% is not required. Instead kindly mention Sufficient spare to meet SLA or 10% minimum.	Refer SI 3.18 of Addendum-1
Vol.1	922	NEC Technologies India Pvt. Ltd	Vol 1; Cl. 4.6	51	The Employer will, if requested by the CONTRACTOR, make mobilization advance payments of 10(%) percent of the Awarded Contract Value to the CONTRACTOR to assist in defraying the initial expenses that will necessarily be incurred by the CONTRACTOR for mobilization and design. The Mobilization Advance will be given to the CONTRACTOR with Simple Interest of 10 % (Percent) per annum.	Request for interest free advance.	Response to this query provided above may be referred.
Vol.3	923	NEC Technologies India Pvt. Ltd	Vol 3; Cl.13	16	Intellectual Property Rights 13.1. Retention of Ownership except for the rights expressly granted to the Licensee under this Agreement, the Licensor shall retain all right, title and interest in and to the Licensed Technology, including all worldwide Technology and intellectual property and proprietary rights. 13.2. Preservation of Notice Licensee shall not remove, efface or obscure any copyright notices or other proprietary notices or legends from any Licensed Technology or materials provided under this Agreement, and shall reproduce all such notices and legends when incorporating Licensed Technology or materials into any Integrated Products. 13.3. SI must ensure that while using any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person/Company. SI shall keep the Authority indemnified against all costs, expenses and liabilities howsoever, arising out any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or violation of any permission/license terms or infringement of any Intellectual Property Rights by SI or SI's Team during the course of performance of the Services. SI's liability is excluded regarding any claim based on any of the following (a) anything Authority provides which is incorporated into the Solution; (b) the Authority's modification of the solution; 13.4. Authority shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by SI solely during the performance of Services and for the	we understand this clause is not applicable for Core IPR of any product. Please clarify.	Refer SI 3.13 of Addendum-1

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Vol.3	924	NEC Technologies India Pvt. Ltd	Vol 3; Cl.15	18	<p>15. Indemnity</p> <p>15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:</p> <p>a. any negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or</p> <p>b. any breach of any of the terms of SI's did as agreed, the RFP and this Contract by SI</p> <p>c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof</p> <p>15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc.</p> <p>15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims</p>	<p>1. Limitation of Liability shall be capped at 100% of Contract Value.</p> <p>2. Request you to delete all Carve Out/ Exclusions from Limitation of Liability</p> <p>3. Either party under no legal theory shall have right to claim for consequential losses and damages</p>	Refer SI 3.03 of Addendum-1
Vol.3	925	NEC Technologies India Pvt. Ltd	Vol 3; Cl.22	21	<p>22. Force Majeure</p> <p>22.1. Force Majeure shall not include any events caused due to acts/ omissions of SI resulting in a breach/ contravention of any of the terms of the Contract and/or SI's Bid. It shall also not include any default on the part of SI due to its negligence or failure to implement the stipulated/ proposed precautions, as were required to be taken under the Contract.</p> <p>22.2. The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.</p> <p>22.3. In case of a Force Majeure, all Parties shall endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.</p> <p>22.4. Force Majeure shall not apply to any obligation of the Owner to make payments to the Contractor</p>	<p>Request you to incorporate the following</p> <ul style="list-style-type: none"> • Request to add events beyond the control of either Party or both the Parties. • Right of EOT and price implication • Both the parties shall have termination rights to both the parties for prolonged suspension due to FM conditions for period more than 60 days continuous and / or 90 days cumulative. • In case of termination SI shall be entitled to be paid for work completed and work in progress 	Refer SI 3.02 of Addendum-1

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Vol.3	926	NEC Technologies India Pvt. Ltd	Vol 3; Cl.24	22	<p>24. Insurance</p> <p>24.1. The Goods supplied under this Contract shall be comprehensively insured by SI at his own cost, against any loss or damage, for the entire period of the contract. SI shall submit to the Authority, documentary evidence issued by the insurance company, indicating that such insurance has been taken.</p> <p>24.2. SI shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods and also the charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective sites of installation shall also be borne by SI.</p> <p>24.3. SI shall take out and maintain at its own cost, on terms and conditions approved by the Authority, insurance against the risks, and for the coverages, as specified below;</p> <p>a. At the Authority's request, shall provide evidence to the Authority showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.</p> <p>b. Employer's liability and workers' compensation insurance in respect of the Personnel of the Company, in accordance with the relevant provisions of the Applicable Law as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate</p>	SI shall undertake comprehensive insurance cover valid till scheduled completion period, in case of extension of time for reasons not attributable to SI, period of cover shall be extended by SI at the cost of GSCL.	Refer SI 3.04 of Addendum-1
Vol.3	927	NEC Technologies India Pvt. Ltd	Vol 3; Cl.25	22	<p>25. Transfer of Ownership</p> <p>25.1. SI must transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide source code, transfer IPR and ownership right of only those solutions which would be customized by bidder for the use of Guwahati Smart City Limited. For any pre-existing work, SI and Guwahati Smart City Limited shall be held jointly responsible and its use in any other project by SI shall be decided on mutual consent.</p> <p>25.2. Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by the Authority, SI shall deliver to the Authority all Documents provided by or originating from the Authority and all Documents produced by or from or for SI in the course of performing the Services, unless otherwise directed in writing by the Authority at no additional cost. SI shall not, without the prior written consent of the Authority store, copy, distribute or retain any such Documents</p>	IP rights cannot be transferred or assigned in manner to GSCL.	Refer SI 3.14 of Addendum-1

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.3	928	NEC Technologies India Pvt. Ltd	Vol 3; Cl.28	24	<p>28. Liquidated Damages: 28.1. If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. 28.2. The deduction shall not in any case exceed 10 % of the contract value. 28.3. The Authority may without prejudice to its right to effect recovery by any other method, deduct the amount of liquidated damages from any money belonging to SI in its hands (which includes the Authority's right to claim such amount against SI's Bank Guarantee) or which may become due to SI. Any such recovery or liquidated damages shall not in any way relieve SI from any of its obligations to complete the Work or from any other obligations and liabilities under the Contract. 28.4. Delay not attributable to SI shall be considered for exclusion for the purpose of computing liquidated damages.</p>	<p>1. Request you to cap the overall LD for delay in completion at 5% of the Contract Value. 2. Request you to add the following wordings "Levy of LD shall be sole and exclusive remedy available to GSCL."</p>	Tender conditions shall prevail
Vol.3	929	NEC Technologies India Pvt. Ltd	Vol 3; Cl.29	24	<p>29. Limitation of Liability: Limitation of Bidder's Liability towards the Authority: 29.1. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or wilful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out the Services, SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher. 29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services</p>	<ul style="list-style-type: none"> • Limitation of Liability shall be capped at 100% of Contract Value. • Request you to delete all the Carve Out/ Exclusions from Limitation of Liability • Either party under no legal theory shall have right to claim for consequential losses and damages 	Refer to addendum VI
Vol.1	930	NEC Technologies India Pvt. Ltd	2.29. Eligible Goods and Services, and OEM Criteria	27	OEM Criteria	ATCS being a important component of the RFP, you are requested to please include suitable OEM criteria of ATCS.	Tender conditions shall prevail.
Vol.1	931	NEC Technologies India Pvt. Ltd	2.29. Eligible Goods and Services, and OEM Criteria	28	The OEM of each product or technology should have valid quality certifications like ISO 9001.	ATCS being a engineering tool, you are requested to consider CMML3 for Traffic Controller OEM.	Agreed. Bidder to Refer Point 1.03 of Amendment 01. "The OEM of each product or technology should have valid quality certifications like ISO 9001 or CMMI Level 3 or better."
Vol.1	932	NEC Technologies India Pvt. Ltd	3.5. Pre-Qualification Criteria	33	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also. ATCS being a new technology and Guwahathi having larger no of junctions, kindly also consider ATCS OEM experience under this clause. Also consider "Adaptive Traffic Signal Control" in place of Traffic signal Control.	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	933	NEC Technologies India Pvt. Ltd	3.5. Pre-Qualification Criteria P	36	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also.	Tender conditions shall prevail.
Vol.1	934	NEC Technologies India Pvt. Ltd	3.5. Pre-Qualification Criteria	36	Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member	Kindly consider Certificate signed by the Company Secretary/statutory Auditor/certifying the project details, its value, completion status etc in absence of PO/Completion letter.	Bidder to Refer Point 1.04 of Amendment 01
Vol.1	935	Astrikos Consulting private limited	Vol1, 2.29, Eligible Goods and Services, and OEM Criteria	28	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	Please modify as "e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.1	936	Astrikos Consulting private limited	Vol1, 7.10, Manufacturers'/Producers' Authorization Form	82	The support for such offered product/s will be available for minimum of 10 years from the date of bidding	Please modify as "The support for such offered product/s will be available for the period of 60 months from the date of Go-live"	Refer to AddendumVI
Vol.2	937	Astrikos Consulting private limited	5.2.3 Workstation with Joystick Controller	132	Processor : Latest generation 64-bit x86 Dual core CPU with 3.33GHz or more	Latest generation 64-bit x86 octa core CPU with 5.00 GHz or more supported clock speed .	Tender conditions shall prevail
Vol.2	938	Astrikos Consulting private limited	5.2.3 Workstation with Joystick Controller	132	Memory : Minimum 8 GB Memory	Minimum 16 GB Memory DDR4	Tender conditions shall prevail
Vol.2	939	Astrikos Consulting private limited	5.2.3 Workstation with Joystick Controller	132	Graphics card : Graphics card with 2 GB video memory (non shared)	Professional series Graphics card with 4 GB memory (NVIDIA Quadro / AMD Radeon)	Tender conditions shall prevail
Vol.2	940	Astrikos Consulting private limited	5.2.3 Workstation with Joystick Controller	132	Monitor: 22" TFT LCD monitor, Minimum 1920 x1080 resolution, 5 ms or better response time, TCO 03 (or higher) certified	Suggested for Minimum 23.8" FHD monitor with TCO 8 or higher certified	Tender conditions shall prevail
Vol.2	941	Astrikos Consulting private limited	5.2.4 Desktop PC for ICC	134	Operating system + SW :MS Office 2016	Please confirm the required MS Office version / SKU . Suggested for pre-loaded MS Office 2019 professional	Tender conditions shall prevail
Vol.2	942	Astrikos Consulting private limited	5.3.3 Data Center Out of Band Switches	169	6. Should support minimum 8MB buffer.	Please modify clause as "6. Should support minimum 4MB buffer." For DELL EMC to participate	6. Should support minimum 4MB buffer
Vol.2	943	Astrikos Consulting private limited	5.3.9 SIEM Solution, point 22	192	Bidder should propose separate hardware for SIEM solution.	Please confirm if purpose built Appliance with guaranteed performance is required or software based solution is OK ?	SIEM solution should be dedicated appliance based or software based. In case of software based solution Bidders should include separate dedicated hardware in their proposed SIEM solution meeting the warranty requirement. Details of which should be mentioned in the bill of material.
Vol.2	944	Astrikos Consulting private limited	5.3.9 SIEM Solution, point 3	190	SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	In case logs and Packet solution will be from different OEM, it will lead to challenge of integration and delay in detecting of nation state attacks? Please confirm if customer is OK with this.	SIEM for Logs and deep packet inspection can be from same or different OEM.
Vol.2	945	Astrikos Consulting private limited	Vol 2, 5.3.11 Storage Specifications, clause 5 (b)	199	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels (5, 6/DP or equivalent)	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.

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Vol.2	946	Astrikos Consulting private limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 2.4	202	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with appropriate cache capacity with redundancy and additional to usable storage.	Tender conditions shall prevail
Vol.2	947	Astrikos Consulting private limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 6.1	203	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz Hyper-V & VMware.	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware.	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware or RedHat or KVM or AHV or Xen
Vol.2	948	Astrikos Consulting private limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 6.7	204	The solution shall support provisioning across multihypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	The solution shall support provisioning hypervisor (e.g.: VMware ESXi 6.5 or higher/ Microsoft Hyper-V 2016 or higher/ System Center 2016 or higher) virtual and public cloud environments.	The solution shall support provisioning hypervisor (e.g.: VMware or Microsoft Hyper-V or System Center or Red hat or KVM or AHV or Xen) virtual and public cloud environments
Vol.2	949	Astrikos Consulting private limited	Vol 2, 5.3.12 Hyper Converged Infrastructure (HCI), clause 6.8	204	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs. Shall have the capability to install on multiple Hypervisor's like VMware & Hyper-V.	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs.	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs
Vol.2	950	Astrikos Consulting private limited	Volume 2, 5.3.5 Intranet Firewall with IPS	180 (1.3)	Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	Kindly change this clause to - "Appliance must Support at least 30 Million Concurrent firewall connections on device from day 1" so that next 5 years scalability can be addressed.	Tender conditions shall prevail
Vol.2	951	Astrikos Consulting private limited	Volume 2, 5.3.5 Intranet Firewall with IPS	180 (1.4)	Firewall must support 400K of new connections/sec	Kindly change this cause to "Firewall should must support 1000K new connections per second" so that next 5 years scalability can be addressed.	Firewall must support 250K of new connections/sec
Vol.2	952	Astrikos Consulting private limited	Volume 2, 5.3.5 Intranet Firewall with IPS	180 (1.7)	No limitation for client connecting using SSL VPN	Kindly clarify whether SSL/IPsec VPN clients are to be included in the commercial offer. If yes, kindly mention number of VPN clients are to be included. May kindly update the clause to "No limitation for client connecting using SSL/IPsec VPN and 500 VPN clients are to be included from day-1".	The device should support 1000 SSL VPN clients from day-1
Vol.2	953	Astrikos Consulting private limited	Volume 2, 5.3.5 Intranet Firewall with IPS	180 (1.8)	Should support at least i) 8x1000BaseT ports ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port	10/100/1000BaseT interfaces are not required in high end Next generation Firewall. Considering minimum 5 years life of the product and the way bandwidth requirement is going up, 100G port should be considered. Kindly change the clause to the following: i) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) ii) 2x40/100G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iii) Should have additional 2x40/100G ports for connectivity to both the Core Routers. iv) 1x1000BaseT management port v) 1xConsole Port	Should support at least ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port
Vol.2	954	Astrikos Consulting private limited	Volume 2, 5.3.5 Intranet Firewall with IPS	180 (2.2)	The appliance must not have reported a backdoor vulnerability in OS in past five years	Kindly change this clause to - "The appliance must not have reported a backdoor vulnerability in OS in past three years" to allow participation of more OEMs.	Clause deleted
Vol.2	955	Astrikos Consulting private limited	Volume 2, 5.3.5 Intranet Firewall with IPS	180 (2.7)	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	As this is Intranet firewall, SD-WAN functionality wont be used. Kindly remove this clause.	Tender conditions shall prevail

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Vol.2	956	Astrikos Consulting private limited	Volume 2. 5.3.6 Next Generation Firewall	184 (4)	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one	The Next Generation Firewall should be loaded with 100G ports to accommodate high traffic volume. 10/100/1000BaseT ports are required on such high end firewall. Kindly change this clause to : "The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40/100 Gig SFP28 ports from Day one"	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	957	Astrikos Consulting private limited	Volume 2. 5.3.6 Next Generation Firewall	184 (6)	Should support 5 Gbps of IPsec VPN throughput and must support minimum 10000 VPN user	5 Gbps of IPsec VPN throughput for 10,000 users would lead to only 0.5 Mbps throughput per user. Kindly change this clause to "Should support 5 Gbps of IPsec VPN throughput and must support minimum 5000 VPN user" so that each user gets at least 1 Mbps throughput.	Should support 5 Gbps of IPsec VPN throughput and must support minimum 5000 VPN user
Vol.2	958	Astrikos Consulting private limited	Volume 2. 5.3.6 Next Generation Firewall	184 (7)	Firewall should support 8 Million concurrent sessions and 200K new connections per second.	These are critical performance figure for any high end NetGen firewall and mentioned parameters may lead to performance bottle neck during next 5 years operation. Kindly change this clause to "Firewall should support 40 Million concurrent sessions and 1000K new connections per second.	Tender conditions shall prevail
Vol.2	959	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-5	83	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	4 x 10/100/1000 (PoE+) + 2 x 10/100/1000 port and 2xGigabit SFP or combo, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	960	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-10	83	b) Static Routing Protocols	Remove this Clause	Tender conditions shall prevail
Vol.2	961	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-12	83	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BootP/DCHP snooping, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP)/FTP support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS).	Tender Conditions shall prevail
Vol.2	962	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-13	83-84	IEEE 802.3bt.	Please remove this clause	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.
Vol.2	963	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-15	84	Flash Memory 1 GB or Better	Flash Memory 16 MB or Better	Tender conditions shall prevail
Vol.2	964	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-17	84	Power Requirement- Internal power supply	Power Requirement- Redundant power supply	Tender conditions shall prevail
Vol.2	965	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-18	84	48V to 57V (Able to run on both AC or DC supply)	48V to 57V (Able to run on AC/DC supply)	Point 18 - Able to run on either AC or DC supply. In case of DC based solution Bidder have to provision DC source at their own cost.

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Vol.2	966	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-22	84	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001.	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent
Vol.2	967	Astrikos Consulting private limited	Vol.02,Section-5.1.3.6, S.No-27	84	Port Security for binding MAC address of IP Cameras to an interface.	Port Security for binding IP/MAC address of IP Cameras to an interface.	Tender conditions shall prevail
Vol.2	968	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-5	85	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+) + 4x1G Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	969	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-10	85	b) Static Routing Protocols c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1. d) Layer 3 multicast routing from day 1	Kindly remove this clause	Clause Deleted - (c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1.)
Vol.2	970	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-12	86	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, STP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BootP/DCHP snooping, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, STP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP)/FTP support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS).	Tender Conditions shall prevail
Vol.2	971	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-15	86	Flash Memory 1 GB or Better	Flash Memory 16 MB or Better	Tender conditions shall prevail
Vol.2	972	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-17	86	Power Requirement- Internal power supply	Power Requirement- Redundant power supply	Tender conditions shall prevail
Vol.2	973	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-18	86	48V to 57V (Able to run on both AC or DC supply)	48V to 57V (Able to run on AC/DC supply)	Point 18 - Able to run on either AC or DC supply. In case of DC based solution Bidder have to provision DC source at their own cost.
Vol.2	974	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-22	87	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001.	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent
Vol.2	975	Astrikos Consulting private limited	Vol.02,Section-5.1.3.7, S.No-27	87	Port Security for binding MAC address of IP Cameras to an interface.	Port Security for binding IP/MAC address of IP Cameras to an interface.	Tender conditions shall prevail
Vol.2	976	Astrikos Consulting private limited	Volume 2, 5.5.3.1 Core Router	296 (8)	Should support up to 16K MAC addresses	16K MAC address support is too low for the Core Router of Smart City Network. Kindly change this clause to "Should support up to 1 Million MAC addresses".	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	977	Astrikos Consulting private limited	Volume 2, 5.5.3.1 Core Router	296 (9)	Shall support - minimum 256K IPv4 and IPv6 routes - minimum 4K multicast routes	Service Provider grade router is required for the Core Router of Guwahati Smart City. Routing parameters are too low. Kindly change this clause to "Shall support - minimum 2 Million IPv4 and 2 Million IPv6 routes - minimum 128 K multicast routes	Tender conditions shall prevail
Vol.2	978	Astrikos Consulting private limited	Volume 2, 5.5.3.1 Core Router	297 (45)	Segment Routing	Kindly explain the use case of "SR and LDP integration support" feature asked under segment routing. May remove this Segment routing features to avoid ambiguity and participation of more OEMs.	i) Segment routing for IPv4 ii) Segment routing for IPv6 iii) Topology-Independent Loop-Free iv) Alternate (TI-LFA) for faster convergence v) Remote-LFA

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Vol.2	979	Astrikos Consulting private limited	Volume 2, 5.5.3.1 Core Router	297 (27)	Hierarchical QoS	Kindly change this clause to "Hierarchical QoS with 256k queues" so that minimum QoS performance parameter is set.	Tender conditions shall prevail
Vol.2	980	Astrikos Consulting private limited	Volume 2, 5.5.3.3, Technical Specification of L2 Switches at POP Sites for DWDM/OTN	302 (1)	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports.	Kindly change the clause to "24*10/100/1000 Base-TX/FX ports, 4 nos of 10G uplink ports and 2 nos. of 40G Ports for ring creation" for better performance.	Tender conditions shall prevail
Vol.2	981	Astrikos Consulting private limited	Volume 2, 5.5.3.3, Technical Specification of L2 Switches at POP Sites for DWDM/OTN	302 (2)	Switch type Layer 2	Kindly change the clause to "Switch type Layer 2 / Layer 3" for deployment flexibility.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	982	Astrikos Consulting private limited	Volume 2, 5.5.3.3, Technical Specification of L2 Switches at POP Sites for DWDM/OTN	302 (8)	Operating Temperatures - 0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	The highest-ever temperature recorded in Guwahati was 40.3°C in May 1960. Kindly change this clause to "Operating Temperatures - 0° to 45° C, shall support 0% to 85% noncondensing humidity conditions.	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	983	Astrikos Consulting private limited	Volume 2, 5.5.3.3, Technical Specification of L2 Switches at POP Sites for DWDM/OTN	303 (18)	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	"jumbi frame" looks like a typo error and jumbo frame support requirement should be mentioned. Request to change this clause to "Support upto 4K VLANs and 9216 bytes jumbo frame"	Support upto 4K VLANs with jumbo frame handling capability of 9K or 13K packet size
Vol.2	984	Astrikos Consulting private limited	Volume 2, 5.5.3.3, Technical Specification of L2 Switches at POP Sites for DWDM/OTN	303 (28)	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	985	Astrikos Consulting private limited	Volume 2, 5.5.3.3, Technical Specification of L2 Switches at POP Sites for DWDM/OTN	303 (28)	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	986	Astrikos Consulting private limited	Volume-2, 5.3.8 Load Balancer with Web Application Firewall	188	It should be dedicated Appliance based solution with purpose-build hardware and the solution should not be a part of Router or UTM or NGFW.	For scalability and security we request to amend the clause as - " It should be dedicated Appliance based solution with purpose-build hardware and the solution should not be a part of Router or UTM or NGFW. It must have capability to host 3rd party and open source network functions like Linux CentOS, Ubuntu & others on same appliance	Tender conditions shall prevail
Vol.2	987	Astrikos Consulting private limited	Volume-2, 5.3.8 Load Balancer with Web Application Firewall	188-189	Should support inbound/outbound load balancing, server load balancing and SSL offloading	For inbound load balancing DNS feature is must. Also HA parameter is missing. We request to amend the clause as - " Should support inbound/outbound load balancing, server load balancing and SSL offloading. Solution should support HA configurations using standard VRRP protocol. It should be capable of handling complete Full DNS bind records including A, MX, AAAA, CNAME, PTR, SOA etc."	Tender conditions shall prevail

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Vol.2	988	Astrikos Consulting private limited	Volume-2, 5.3.8 Load Balancer with Web Application Firewall	189	Web Application Firewall - Handle OWASP Security Attack Classification, WAF should support for IPv4 and IPv6 traffic, Support DNSSEC functionality	For better surface security we request to amend the clause as "Web Application Firewall - Handle OWASP Security Attack Classification, WAF should support for IPv4 and IPv6 traffic, Support DNSSEC functionality. Proposed WAF module should be from different OEM than Firewalls and Load Balancers for better surface security"	Tender conditions shall prevail
Vol.1	989	eCentric Solutions Private Limited	Vol 1	Page 28, 2.29. Eligible Goods and Services, and OEM Criteria	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	In vol 2., it is mentioned as follows: 4) OEM undertaking that the quoted product will not become end of sale within next 12 months. 5) OEM undertaking that the quoted product will not become end of support/end of life for next 5 years. We feel this is the point which needs to be followed since Vol II is for scope of work and technical specifications. Please clarify 6 x 10/100/1000 (PoE+ on all ports) + 2 x combo or dedicated Gigabit SFP, Switch should support Rugged SFPs and all the transceiver should be from the same OEM as the switch	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.2	990	eCentric Solutions Private Limited	Page 82, 4 Port POE switch, clause no. 5	Page 82, 4 Port POE switch, clause no. 5	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	6 x 10/100/1000 (PoE+ on all ports) + 2 x combo or dedicated Gigabit SFP, Switch should support Rugged SFPs and all the transceiver should be from the same OEM as the switch	Tender conditions shall prevail
Vol.2	991	eCentric Solutions Private Limited	Page 82, 4 Port POE switch, clause no. 7	Page 82, 4 Port POE switch, clause no. 7	120 W or Better	180W or Better	Tender conditions shall prevail
Vol.2	992	eCentric Solutions Private Limited	Page 82, 4 Port POE switch, clause no. 8	Page 82, 4 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 09 Mbps or better Switching capacity: 12 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 16 Gbps or better	Tender conditions shall prevail
Vol.2	993	eCentric Solutions Private Limited	Page 82, 4 Port POE switch, clause no. 10	Page 82, 4 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 along with multicasting should be supported for future enhancements without changing the hardware.	This is minimum requirement, bidder can propose better solutions
Vol.2	994	eCentric Solutions Private Limited	Page 83, 4 Port POE switch, clause no. 14	Page 83, 4 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	995	eCentric Solutions Private Limited	Page 83, 4 Port POE switch, clause no. 17	Page 83, 4 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	996	eCentric Solutions Private Limited	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail
Vol.2	997	eCentric Solutions Private Limited	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	998	eCentric Solutions Private Limited	Page 84, 4 Port POE switch, clause no. 19	Page 84, 4 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.

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Vol.2	999	eCentric Solutions Private Limited	Page 84, 4 Port POE switch, clause no. 25	Page 84, 4 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	1000	eCentric Solutions Private Limited	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	1001	eCentric Solutions Private Limited	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	1002	eCentric Solutions Private Limited	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QoS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	1003	eCentric Solutions Private Limited	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	1004	eCentric Solutions Private Limited	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	1005	eCentric Solutions Private Limited	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1006	eCentric Solutions Private Limited	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	1007	eCentric Solutions Private Limited	Page 85, 8 Port POE switch, clause no. 10	Page 85, 8 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 and multicast should be supported for future enhancements without changing the hardware.	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1
Vol.2	1008	eCentric Solutions Private Limited	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail
Vol.2	1009	eCentric Solutions Private Limited	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1010	eCentric Solutions Private Limited	Page 86, 8 Port POE switch, clause no. 14	Page 86, 8 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1011	eCentric Solutions Private Limited	Page 86, 8 Port POE switch, clause no. 17	Page 86, 8 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	1012	eCentric Solutions Private Limited	Page 86, 8 Port POE switch, clause no. 19	Page 86, 8 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	1013	eCentric Solutions Private Limited	Page 87, 8 Port POE switch, clause no. 25	Page 87, 8 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	1014	eCentric Solutions Private Limited	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail

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Vol.2	1015	eCentric Solutions Private Limited	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	1016	eCentric Solutions Private Limited	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QOS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	1017	eCentric Solutions Private Limited	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	1018	eCentric Solutions Private Limited	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.4	1019	eCentric Solutions Private Limited	BOQ-27684	Schedule-B, Serial No. 5.3.2	New Request and Clarification	The Internet router has been considered as only 1 in quantity in the Schedule B of the BOQ file. This lacks resiliency and becomes a single point of failure. Hence, we are requesting to increase the quantity to at least 2. Further, the specs in Vol. 2 has the specs for Internet switch and not as Internet Router, so we are assuming that it is a typo on the BOQ file and it should be Internet switch on both BOQ and specs of Vol. 2 of the RFP. Pls confirm on the same.	Tender conditions shall prevail
Vol.2	1020	eCentric Solutions Private Limited	Page 136, Internet Switch - L3, clause no. 9	Page 136, Internet Switch - L3, clause no. 9	Power supply:230V AC PSU	"Power supply:Redundant and field replaceable 230V AC PSU "	Tender conditions shall prevail
Vol.2	1021	eCentric Solutions Private Limited	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	1022	eCentric Solutions Private Limited	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	1023	eCentric Solutions Private Limited	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	1024	eCentric Solutions Private Limited	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	1025	eCentric Solutions Private Limited	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 2000 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	1026	eCentric Solutions Private Limited	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 50,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	1027	eCentric Solutions Private Limited	Page 168, Spine & Leaf Switch, clause no. 39	Page 168, Spine & Leaf Switch, clause no. 39	The solution must have virtualization feature.	The solution must have virtualization feature and should support at least 1000 VRFs	Tender conditions shall prevail
Vol.2	1028	eCentric Solutions Private Limited	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all OEMs are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	1029	eCentric Solutions Private Limited	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	1030	eCentric Solutions Private Limited	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1031	eCentric Solutions Private Limited	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted

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Vol.2	1032	eCentric Solutions Private Limited	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1033	eCentric Solutions Private Limited	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	1034	eCentric Solutions Private Limited	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	1035	eCentric Solutions Private Limited	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	1036	eCentric Solutions Private Limited	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1037	eCentric Solutions Private Limited	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	1038	eCentric Solutions Private Limited	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1039	eCentric Solutions Private Limited	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	1040	eCentric Solutions Private Limited	Intranet Firewall with IPS	Intranet Firewall with IPS	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replaceable	Tender conditions shall prevail
Vol.2	1041	eCentric Solutions Private Limited	Vol 2+F46	Page no-184, Next generation Firewall , Clause No 4	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Suggestions in Justifications 10G interfaces are back compatible to 1G thus if network really has 1G requirement than 10G ports can be used there. Also for a 40G day 1 support means the network is 40G ready and the required number of 1G and 10G becomes redundant as the uplink and downlink can be on 40G and removed.	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	1042	eCentric Solutions Private Limited	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail
Vol.2	1043	eCentric Solutions Private Limited	Next generation Firewall	Next generation Firewall	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replacabile	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1044	eCentric Solutions Private Limited	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	1045	eCentric Solutions Private Limited	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	1046	eCentric Solutions Private Limited	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	1047	eCentric Solutions Private Limited	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to Addendum XII
Vol.2	1048	eCentric Solutions Private Limited	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Storage solution should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Tender conditions shall prevail
Vol.2	1049	eCentric Solutions Private Limited	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)
Vol.2	1050	eCentric Solutions Private Limited	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels 1, 6, 10 or equivalent Erasure Coding Configurations	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.
Vol.2	1051	eCentric Solutions Private Limited	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	1052	eCentric Solutions Private Limited	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	1053	eCentric Solutions Private Limited	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Storage shall have minimum front-end support for 16Gb and backend support for minimum 12Gb.	Each Storage controller/Node shall have minimum front-end (network) support for 25Gb and backend support for minimum 12Gb.	Clause deleted
Vol.2	1054	eCentric Solutions Private Limited	page No. 200, Storage Specifications	page No. 200, Storage Specifications	All the necessary software (GUI Based) to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.
Vol.2	1055	eCentric Solutions Private Limited	page No. 201, Storage Specifications	page No. 201, Storage Specifications	Additional parameter	Storage feature: The solution should provide inbuilt native deduplication and compression capabilities	Tender conditions shall prevail

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Vol.2	1056	eCentric Solutions Private Limited	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	1057	eCentric Solutions Private Limited	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	The solution should be offered with redundancy of Compute, Hard disk and Connectivity.	The solution should be offered with one additional node for ensuring that there would be no performance degradation in case of 1 node failure.	Tender conditions shall prevail
Vol.2	1058	eCentric Solutions Private Limited	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with minimum 800GB cache capacity additional to usable storage. Proposed HCI solution shall be able to scale twice the current mentioned capacity.	Tender conditions shall prevail
Vol.2	1059	eCentric Solutions Private Limited	Page No. 203, Hyper Converged Infrastructure (HCI)	Page No. 203, Hyper Converged Infrastructure (HCI)	Proposed solution shall be able to Track and manage firmware versions ,display & report inventory across all proposed Servers.	Proposed solution shall be able to centrally Track and manage firmware versions ,display & report inventory across all proposed Servers at DC & DRC.	Tender conditions shall prevail
Vol.2	1060	eCentric Solutions Private Limited	L2 Switch for POP	L2 Switch for POP	Change Request	Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	1061	eCentric Solutions Private Limited	Page 302, L2 Switch for POP, Clause No. 1	Page 302, L2 Switch for POP, Clause No. 1	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports. All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half duplex ports.	The device must support 18x 1GE+ 6 x 10GE.Considering the growth in traffic number of 10G interfaces should be more.18x1G interfaces are sufficient to connect IE switche ring.	The device must support 16x 1GE SFP, 4 x 10GE SFP+ ports. Should have future scalability for minimum 2x40Gbps interface. All proposed transceivers should be from same OEM.
Vol.2	1062	eCentric Solutions Private Limited	Page 302, L2 Switch for POP, Clause No. 2	Page 302, L2 Switch for POP, Clause No. 2	Layer 2	The device should be Layer3 switch or Router with IP/MPLS capabilities.As per city network design,all IE switch ring will terminate on this switch/router. This will act as pre aggregatin or aggregation for nrtwork.Having layer 3 and IP/MPLS capabilities on this will ensure that broadcast domain is limited and Servies like Layer3 ,Layer2 ,Multicast can be enabled from this node.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	1063	eCentric Solutions Private Limited	Page 302, L2 Switch for POP, Clause No. 4	Page 302, L2 Switch for POP, Clause No. 4	Minimum 128Gbps Switching fabric capacity	Since the devcie will act as pre aggregation/Agregation device suggest to increase the throughput to 200Gbps.	Minimum 128Gbps Routing Throughput
Vol.2	1064	eCentric Solutions Private Limited	Page 302, L2 Switch for POP, Clause No. 7	Page 302, L2 Switch for POP, Clause No. 7	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum of 64K IPv4/32K IPv6 routes or better
Vol.2	1065	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	All the devcies will deployed in filed and will require high temperature sustainability.Request to increase the temperature to 0 to 65	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	1066	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 9	Page 303, L2 Switch for POP, Clause No. 9	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum 64K IPv4/IPv6 routes/hosts

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Vol.2	1067	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	New features	Multicast will be one of the key feature as we intend to connect cameras and other applicatins in future.The devices must support 4K Multicast routes to achieve the ultimate goal of city network.	Tender conditions shall prevail
Vol.2	1068	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 10	Page 303, L2 Switch for POP, Clause No. 10	Packet Forwarding Rate should be 95 Mpps or better	Since the devicie will act as pre aggregation/Agregation device suggest to increase the Packet Forwarding Rate should be 200 Mpps or better	Clause deleted
Vol.2	1069	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 18	Page 303, L2 Switch for POP, Clause No. 18	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	Jumbo frame standard is is 9000 MTU pls change it to 9000.	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet size or better
Vol.2	1070	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 20	Page 303, L2 Switch for POP, Clause No. 20	Support Multicasting	The devices must suport multicast layer 3 VPN,PIM,PIM SSM,IGMP V1,V2,V3.	Clause 20. Support Multicasting with below features ready- i) IPv4 and IPv6 multicast ii) PIM-SM, PIM-SSM iii) IGMPv3, IGMP snooping iv) 4K Multicast Routes
Vol.2	1071	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 22	Page 303, L2 Switch for POP, Clause No. 22	Should support Ring protection	The devcies must support all the ring protection mechanism like IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or IPFRR, MPLS-TE FRR,LFA remote and Local, TI-LFA, BFD with 3.3 msec to achieve ring protection within 50-ms.
Vol.2	1072	eCentric Solutions Private Limited	Page 303, L2 Switch for POP, Clause No. 28	Page 303, L2 Switch for POP, Clause No. 28	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	The devcies must support all the ring protection mechanism like G.8032, IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	1073	eCentric Solutions Private Limited	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The devcies must support 2 Level HQOS for granular Quality of Service	Tender conditions shall prevail
Vol.2	1074	eCentric Solutions Private Limited	Page 304, L2 Switch for POP, Clause No. 39	Page 304, L2 Switch for POP, Clause No. 39	Should support 4 groups of RMON	RMON is very old methodology for network monitoring there are new protocols like Telemetry ,SNMP which should be allowed for better network managemnt and logging	Should support 4 groups of RMON or Telemetry ,SNMP
Vol.2	1075	eCentric Solutions Private Limited	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The router/layer3 switch must support following layer3 proticools: 1.OSPF V2 and V3,ISIS 2.BGP (IPv4,VPNv4,IPv6) 3.MPLS LDP 4.Multicast VPN,Layer2 VPN,Layer3 VPN,VPLS 5.Segment routing 6.TI-LFA 7.EVPN 8.SR v6	Tender conditions shall prevail
Vol.2	1076	eCentric Solutions Private Limited	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing FLeX-algo should be supported to ensure each category of traffic is getting bandwidth as per their Latency and SLA requirement	Tender conditions shall prevail
Vol.2	1077	eCentric Solutions Private Limited	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing Data Plane monitoring should be supported to ensure that traffic is not blackholed and not dropped due to network issues.	Tender conditions shall prevail
Vol.2	1078	eCentric Solutions Private Limited	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The device must support minimum 8 label depth for Segment routing to work as desired.	Tender conditions shall prevail
Vol.2	1079	eCentric Solutions Private Limited	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	Certification	The device series should be CE3.0 certified	Tender conditions shall prevail
Vol.2	1080	eCentric Solutions Private Limited	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	1081	eCentric Solutions Private Limited	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	1082	eCentric Solutions Private Limited	Page No. 299, DWDM/OTN, Clause No. 4	Page No. 299, DWDM/OTN, Clause No. 4	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card)	Clarification Request	Refer to Addendum VII (sl no 17)

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Vol.2	1083	eCentric Solutions Private Limited	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card.100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	1084	eCentric Solutions Private Limited	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC,1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	1085	eCentric Solutions Private Limited	Page No. 299, DWDM/OTN, Clause No. 7	Page No. 299, DWDM/OTN, Clause No. 7	The offered system should be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradable in service to carry 100 Gbit/s channels along with 10G channels.	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	1086	eCentric Solutions Private Limited	Page No. 300, DWDM/OTN, Clause No. 10	Page No. 300, DWDM/OTN, Clause No. 10	2) Relative humidity: Up to 90% at non-condensing for the DWDM.	Pls change the relative humidity to 85%.	Refer to Addendum VII (sl no 17)
Vol.2	1087	eCentric Solutions Private Limited	Page No. 300, DWDM/OTN, Clause No. 11	Page No. 300, DWDM/OTN, Clause No. 11	The attenuation per Km for fibre shall be taken as 0.25 db per km. The link shall be designed with a fibre and OSNR margin of 3db.	We need a network/topology to design.	Refer to Addendum VII (sl no 17)
Vol.2	1088	eCentric Solutions Private Limited	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	1089	eCentric Solutions Private Limited	Page No. 295, Core Router, Clause No. 7	Page No. 295, Core Router, Clause No. 7	Should have a minimum capacity of 2Tbps	Should have a minimum capacity of 4 Tbps	Tender conditions shall prevail
Vol.2	1090	eCentric Solutions Private Limited	Page No. 295, Core Router, Clause No. 10	Page No. 295, Core Router, Clause No. 10	Should have minimum 32GB RAM	Should have minimum 24GB RAM from Day 1 with support to go upto 32GB for future scalability	Should have minimum 16GB RAM
Vol.2	1091	eCentric Solutions Private Limited	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	1092	eCentric Solutions Private Limited	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	1093	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workload refers to Containerised Applications or VM based Application along with Application stack workload. Please Confirm.	This is not part of ICCC stack but part of DC management toolset.
Vol.2	1094	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workloads that refer to automating business processes through events/ batch / streaming modes.e.g Business process in smart cities could refer to transfer of data from IoT devices to the BI layer. Please Confirm	This is not part of ICCC stack but part of DC management toolset.
Vol.2	1095	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Since workloads are configured at unitary levels encompassing API's, procedures, scripts, applications- it is next to impossible to determine costs associated, Request you to please rephrase this as "The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into configuration of each workload"	This is not part of ICCC stack but part of DC management toolset.
Vol.2	1096	eCentric Solutions Private Limited	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	9. Should be additional wireless APs can be registered and configured	Request you to please move this ask from EMS section to Wireless Controller section, As Wireless APs are primarily configured and registered to Wireless Controller, NMS/EMS tool can monitor the fault and performance of network devices using SNMP.	Clause deleted

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Vol.2	1097	eCentric Solutions Private Limited	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	11. Comprehensive event log provides network issue resolution. Solution should be inclusive with hardware, OS, patches, database and any other licenses for their monitoring etc.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications. Please confirm.	Tender conditions shall prevail
Vol.2	1098	eCentric Solutions Private Limited	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	134 It should have an integrated CMDB for strong Change Management capabilities. Should integrate with existing Helpdesk deployed.	Integrating with existing Helpdesk tool will restrict the participation. And ownership of integration with existing Helpdesk will be a challenge for bidder. It is suggested to remove this clause. Also, solution from Single OEM for monitoring and Helpdesk, will give seamless integration capabilities, Out of box Connectors, Better root cause navigation and Intelligent ticketing, better event enrichment and noise suppression. Bidder should be free to propose new Helpdesk ITIL 2011 based solution with single unified CMDB for better management.	Tender conditions shall prevail
Vol.2	1099	eCentric Solutions Private Limited	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	It is recommended, Server Automation solution should analyze servers for Patching, compliance with internal policies or industry standards, based on powerful compliance rules out-of-the-box. Are you also looking for such functionalities? Please Confirm	102. Configuration and patch management: Management platform must provide a tool which tracks and analyses hardware, database, OS, application server software configurations and patches. Bidder may provide separate tool to achieve the desired requirement. All the proposed tool should be integrated with EMS.
Vol.2	1100	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	201 The solution should provide workload automation that provides full stack visibility and control:- resources aware, Application aware, Database aware	It is recommended, Server Automation solution should allow administrators to configure and schedule tasks from a centralized console, including rolling out software, upgrading operating systems, executing commands remotely and targeting computers based on specific hardware and software attributes. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1101	eCentric Solutions Private Limited	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	29. Should have ability to correlate events across the entire infrastructure components of SDC.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events. Please confirm.	29. Should have ability to correlate events across the proposed Data Center infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events.
Vol.2	1102	eCentric Solutions Private Limited	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	125. Proposed incident tracking system would be ITIL 2011compliant	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Complete 10+ ITIL 2011 process flow for Incident, problem, Change and release, Asset and Service level Management. Please confirm.	Tender conditions shall prevail
Vol.2	1103	eCentric Solutions Private Limited	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	130. It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Helpdesk with Mobile based App so that all the tickets can be effectively manage and monitor for timely action by the Agent. Also, User can raise requests at their ease from Mobile App instead of login to Web URL. Please Confirm.	Tender conditions shall prevail

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Vol.2	1104	eCentric Solutions Private Limited	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	9. Asset / Inventory Management	As a good practice, Asset and Inventory management data should be stored on Single CMDB, for effective management and mapping of Assets, same CMDB should be accessed by Helpdesk to any asset related raise incidents/tickets. The Common database will help in seamless tracking and management of assets. Are you looking for Common database or CMDB of helpdesk and Asset Management? Please Confirm	9. Asset / Inventory Management shall be stored on single CMDB.
Vol.2	1105	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended for smooth flow of automation process, "The solution should orchestrate the entire IT workload execution of jobs & processes automatically without manual intervention. It should have the ability to configure recovery of jobs in case of failure." Are you looking for such functionalities? Please Confirm.	This is not part of ICCG stack but part of DC management toolset.
Vol.2	1106	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should provide configurable Business workflows for tasks such as management of data applications. The solution should be able to use learning methods to forecast jobs by monitoring workflows. The Solution should map workflows to business services and their respective deadlines and allows for proactive alerting when a workflow is in danger of missing an SLA. Are you looking for such functionalities? Please Confirm	This is not part of ICCG stack but part of DC management toolset.
Vol.2	1107	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should have a consolidated view of all jobs and IT process workloads in a centralized dashboard. Are you looking for such functionalities? Please Confirm	This is not part of ICCG stack but part of DC management toolset.
Vol.2	1108	eCentric Solutions Private Limited	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	General Query	It is recommended, Server Automation solution should be able to scan all servers (Windows, Linux and Unix OS to be supported by Server Automation solution) with in the network for missing security patches and compliance. The detection shall be automated and shall trigger the patch through central system. Are you looking for such functionalities? Please Confirm	This is not part of ICCG stack but part of DC management toolset.
Vol.2	1109	eCentric Solutions Private Limited	Page 112,5.2.2.1 Integrated Command Control Platform	Page 112,5.2.2.1 Integrated Command Control Platform	5. The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	1110	eCentric Solutions Private Limited	Page 115,5.2.2.1 Integrated Command Control Platform	Page 115,5.2.2.1 Integrated Command Control Platform	48 Adapter studio must have capability to consume data from multiple sources with different communications such as web services, Web Sockets, FTP, Fileserver, MQTT, real-time streams, etc.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	1111	eCentric Solutions Private Limited	Page 252,5.4.3.5 System Management Requirements	Page 252,5.4.3.5 System Management Requirements	i) The system shall be compiled with automated File Transfer Protocol (FTP) software; this software will push generated speeding incident files to the central control room automatically as they are generated. The software will use the FTP protocol.	It is important that various interactions in the smart city processes necessitate a lot of file transfers. Also it is important that secure channels to send or receive files through HTTPS, SFTP methods. Are you looking for such functionalities? Please Confirm	Tender conditions shall prevail
Vol.2	1112	eCentric Solutions Private Limited	New Request	New Request		The OEM should provide the specific solution designing & Core implementation (OEM Low Level Design, DC Core Implementation) support to make sure that their supplied technology & products work as per the design objectives.	Tender conditions shall prevail
Vol.2	1113	eCentric Solutions Private Limited	New Request	New Request		Provide an Operations Support Manager for every year from OEM who is familiar with (Customer) business, processes, and technical support history to continually monitor customer technical support needs, track every open service request, and make sure that IT resources, both at OEM and within Customer organization, are aligned appropriately to resolve issues quickly and completely.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	1114	Shapoorji Pallonji & Co. Pvt. Ltd.	Volume I, Clause no. 2.8	Page no. 16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS/Bank Guarantee in case of offline payment from any Bank. Kindly allow EMD in the form of Bank Guarantee as well	EMD amount shall be Rs. 2,15,00,000/-. Bidder to Refer Point 1.01 of Amendment 01. Regarding mode of payment of EMD, Bid condition shall prevail.
Vol.1	1115	Shapoorji Pallonji & Co. Pvt. Ltd.	Volume I, Clause no. 2.8	Page no. 16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	Please confirm what is correct EMD amount as per Clause no. 2.8 or Bid data sheet	EMD shall be INR 2,15,00,000/-. Bidder to Refer Point 1.01 of Amendment 01.
Vol.1	1116	Shapoorji Pallonji & Co. Pvt. Ltd.	Volume I, Clause 1.3 Bid data sheet, Point no. 12	Page no. 7	Bid Security/Earnest Money Deposit (EMD) INR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) online deposit through e Procurement porta	Please confirm what is correct EMD amount	EMD amount shall be INR 2,15,00,000/-. Bidder to Refer Point 1.01 of Amendment 01
Vol.1	1117	Shapoorji Pallonji & Co. Pvt. Ltd.	Volume I, Clause 3.6.1 Technical Bid Criteria & Evaluation	Page no. 39	MANPOWER: Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) working in the business unit providing "specific business areas" as mentioned in the above criteria as on date of release of RFP. Marks shall be allotted as given below: Number of FTE Marks >500 FTE 4 marks >400 FTE to <=500 FTE 3 marks >300 FTE to <=400 FTE 2 marks <=300 FTE 1 marks	MANPOWER: Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) working in the business unit providing "specific business areas" as mentioned in the above criteria as on date of release of RFP. Marks shall be allotted as given below: Number of FTE Marks >200 FTE 4 marks >150 FTE to <=200 FTE 3 marks >100 FTE to <=150 FTE 2 marks <=100 FTE 1 marks	Refer to AddendumVI
Vol.2	1118	Shapoorji Pallonji & Co. Pvt. Ltd.	Volume 2: Scope of Work & Technical Specifications	Page no. 339	5.5 Civil Works, Floor & Interior Work 5.5.1 Civil Work - False-Ceiling, Raised flooring in Server Room, etc. SQF 5000 5.5.2 Floor Carpet SQF 5000 5.5.3 Painting SQF 20000 5.5.4 HVAC System for Video Monitoring Room (20 TR) Nos 1 5.5.5 Ductable Split AC (10 TR) for Equipment Room & Meeting Rooms Nos 1 5.5.6 Furniture (Work Stations - Desk and Chairs) for ICCC - 15 Seater Nos 15 5.5.7 Furniture (Work Stations - Desk, Chairs) for ICCC Operation Manager Cabin Nos 4 5.5.8 Furniture for Meeting Rooms (6-Seats x 2 Nos) Nos 2 5.5.9 Furniture for Security Desk /Guard Room Nos 1 5.5.10 Furniture for Help Desk - 5 Seater Nos 5	Values are not matching so need clarification on these points. e.g. Page 138 > i. Helpdesk Capacity SI is required to provide a minimum 10-seater helpdesk at Command Control Center during all operation hours as specified in the RFP. Page 399 Furniture (Work Stations - Desk and Chairs) for ICCC - 15 Seater Furniture (Work Stations - Desk and Chairs) for ICCC - 15 Seater Furniture (Work Stations - Desk, Chairs) for ICCC Operation Manager Cabin > 4	Tender conditions shall prevail
Vol.2	1119	Vmware	RFP Vol 2; Hyper Converged Infrastructure - Virtualization	Page 203; Vol II; Inside Point 5.3.12, Point No 6	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V & VMware.	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed.	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware or RedHat or KVM or AHV or Xen

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	1120	Honeywell Automation India Limited	Volume I, 3.5. Pre-Qualification Criteria	35 of 104	<p>3. The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.</p> <p>Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract) Details on the supporting document requirement is provided below under Note (point 1 to 7)</p>	<p>Request to amend a follows: The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 5 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City/ cities in India.</p> <p>Documentary evidence (Copy of completion/ Ongoing client certificate/ <u>CA Certificate</u> and Work Order/ Contract) Details on the supporting document requirement is provided below under Note (point 1 to 7).</p>	Refer to Addendum VI
Vol.1	1121	Honeywell Automation India Limited	Volume I, 3.5. Pre-Qualification Criteria	35 of 104	<p>The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date</p> <p>Note: <input type="checkbox"/> In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. <input type="checkbox"/> In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility.</p> <p>Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract) Details on the supporting document requirement is provided below under Note (point 1 to 7)</p>	<p><u>Request to ammend as follows:</u> The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date</p> <p>Note: <input type="checkbox"/> In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. <input type="checkbox"/> In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility.</p> <p>Documentary evidence (Copy of completion/ Ongoing client certificate/ <u>CA Certificate</u> and Work Order/ Contract) Details on the supporting document requirement is provided below under Note (point 1 to 7)</p>	Refer to Addendum VI
Vol.1	1122	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	41 of 104	<p>B3. The Sole Bidder or any consortium member (in case of consortium) having followings Valid certifications <input type="checkbox"/> ISO 20000(latest) for IT Service Management <input type="checkbox"/> ISO 27001(latest) for Information Security Management System <input type="checkbox"/> CMM level 3 or above certification</p> <p>Profile Three of the above-5 Marks Any two of the above- 4 Marks Any one of the above- 3 Marks</p>	<p><u>Request to amend a follows:</u> B3. The Sole Bidder or any consortium member (in case of consortium) or subsidiaries of Ultimate Parent Company having the followings Valid certifications * ISO 9000: 2015 / ISO 14000: 2015 * ISO 20000(latest) for IT Service Management/ ISO 27001(latest) for Information Security Management System * CMM level 3 or above certification</p> <p>Profile Any Two of the above-5 Marks Any One of the above- 4 Marks</p>	Tender condition shal prevail
Vol.1	1123	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	42 of 104	<p>B4.2 Integrated Command and Control Centre Solution (OEM Criteria) No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. Max marks allotted- 5</p> <p>Copy of Completion Certificates from Client mentioning name of CCC Software.</p>	<p>Request to amend a follows: B4.2 Integrated Command and Control Centre Solution (OEM Criteria) No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 5 years as on date of submission of bid. Marking will be done on Pro-rata basis. Max marks allotted- 5</p> <p>Copy of Completion Certificates from Client mentioning name of CCC Software. In case of ongoing project, self-declaration by bidder/ OEM mentioning project status & name of CCC software</p>	Refer to Addendum VI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	1124	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	42 of 104	B4.2 Integrated Command and Control Centre Solution (OEM Criteria) No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. Max marks allotted- 5 Copy of Completion Certificates from Client mentioning name of CCC Software.	Kindly confirm: Please provide marks allotment details per project & how many maximum projects required to be submitted	Refer to Addendum VI
Vol.1	1125	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	42 of 104	B4.3 No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Request to amend as follows: B4.3 No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 5 years as on date of submission of bid. Marking will be done on Pro-rata basis. Copy of Completion Certificates from Client mentioning name of VMS Software. In case of ongoing project, self declaration by bidder/OEM mentioning project status along-with name of VMS software	Refer to Addendum VI
Vol.1	1126	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	42 of 104	B4.3 No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Please provide marks allotment details per project & how many maximum projects required to be submitted	Refer to Addendum VI
Vol.1	1127	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	42 of 104	B6 Sole Bidder or consortium Ref. Note 1 to 7 under section: 3.5 of RFP volume I	We understand for ongoing large projects, CA certificate to be submitted mentioning status of the project instead of ongoing client certificate. <u>Please confirm.</u>	Refer to Addendum VI
Vol.1	1128	Honeywell Automation India Limited	Volume I, 3.6.1 Technical Bid Criteria & Evaluation	39 of 104	A2 Sole Bidder or consortium Certificate from the Head of HR Department or equivalent on bidding entity's letter head countersigned by authorized signatory for this bid holding written special power of attorney on stamp paper	Request to amend as follows: A2 Sole Bidder or consortium Certificate from the Head of HR Department or Bidder's authorized signatory or equivalent on bidding entity's letter head countersigned by authorized signatory for this bid holding written special power of attorney on stamp paper	Refer to Addendum VI
Vol.1	1129	Honeywell Automation India Limited	Volume I, 3.6.3 Key Personnel Criteria	46 of 104	6. Integrated Traffic Management Expert – 1 mark a. Education: Full time M.Tech/ B.E./ B.Tech or Graduation/Post Graduation in Transportation from a reputed institute b. Total Experience: At least 10 years in IT sector c. Should have experience in designing & implementing Integrated Traffic Management system for minimum 2 projects.	Request to amend as follows: 6. Integrated Traffic Management Expert – 1 mark a. Education: Full time M.Tech/ B.E./ B.Tech or Graduation/Post Graduation from a reputed institute b. Total Experience: At least 10 years in IT sector c. Should have experience in designing & implementing Integrated Traffic Management system for minimum 2 projects.	Refer to Addendum VI
Vol.2	1130	Honeywell Automation India Limited	Volume 2, 5.1.4.12 VMS System Size	103 of 400	2. The VMS OEM must have at least one project experience of minimum 2000 cameras in India. (PO copy required to be submitted).	Kindly clarify requirement of VMS qualification- whether reference of 1000 IP camera to be shown as per Volume I, 3.6.1 Technical Bid Criteria & Evaluation, B4.3 or 2000 cameras as per Vol 2 clause.	Refer to Addendum IV
Vol.2	1131	Honeywell Automation India Limited	Volume 2, 6.1.6.8 Physical Infrastructure Management and Maintenance Services	328 of 400	The SI shall have to stock and provide adequate onsite and offsite spare parts and spare component to ensure that the uptime commitment as per SLA is met. To provide this service it is important for the SI to have back to back arrangement with the OEMs. The SI needs to provide a copy of the service level agreement signed with the respective OEMs.	We understand OEM MAF letter to be submitted for this, please confirm	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1132	Honeywell Automation India Limited	Volume 2, 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT	347 of 400	10. Bidders should ensure warranty and support for all equipment from OEMs during the contract period. All the back-to-back service agreements should be submitted along with the Technical Bid.	We understand OEM MAF letter to be submitted for this, please confirm	Tender conditions shall prevail
Vol.2	1133	Honeywell Automation India Limited	Volume 2, 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT	347 of 400	14) Both Bidder and OEM should submit following certificate along with the bid document: A. This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to: I. Inhibit the desires and designed function of the equipment. II. Cause physical damage to the user or equipment during the exploitation. III. Tap information resident or transient in the equipment/network. B. The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software	We understand this clause is part of MAF & no separate undertaking required to be submitted from OEM, please confirm	Tender conditions shall prevail
Vol.1	1134	Honeywell Automation India Limited	Volume I, 2.29. Eligible Goods and Services, and OEM Criteria	28 of 100	o)OEM of all active IT components should have online portal to raise tickets for support and services p) Product serial numbers of all IT active components should be available in the OEM's online portal for ease of call log, maintenance and support.	We understand this clause is applicable for IT components OEMs only- Router, switches, Servers & storage. Please confirm	Refer to Addendum IV
Vol.1	1135	Honeywell Automation India Limited	Volume I, 5.2.2.1 Integrated Command Control Platform	117 of 400	oSmart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	<u>Request to amend this clause as follows as:</u> oSmart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers OR OEM should have atleast 5 smart city projects in India/abroad. Self declaration to be submitted by the OEM for the same.	Refer to Addendum IV
Vol.2	1136	Honeywell Automation India Limited	Additional clause			<u>Request to include the following for ICCO OEM criteria:</u> 1.ICCC OEM should adopt ISA 62443 as the standard to govern products around Security for Industrial Automation and Control Systems that covers Identification & Authentication Control, Use Control, System Integrity, Data Confidentiality, Restricted Data Flow, Timely Response to Event and Resource Availability 2.It should consider Secure Design, Threat Modeling, Privacy Assessment, Binary & Static Analysis, Security Code Review and security assessment before launch of any version. 3.OEM should be a founder member of 'ISA - Global Cyber Security Alliance'	Tender conditions shall prevail
Vol.2	1137	Honeywell Automation India Limited	Volume 2, 7.0 ANNEXURE II: PAYMENT SCHEDULE AND MILESTONES	342-346	(a) On supply – 60 % of approved rate (b) On Installation – 15 % of approved rate (c) On Commissioning -15 % of Approved Rate (d) On Go-live – 10 %	<u>Request to amend this clause as follows:</u> (a) On supply – 70 % of approved rate (b) On Installation – 10 % of approved rate (c) On Commissioning -10 % of Approved Rate (d) On Go-live – 10 %	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.3	1138	Honeywell Automation India Limited	vol.3- 11.7	18	11.7. Site Not Ready: Authority hereby agrees to make the project sites ready as per the agreed specifications, within the agreed timelines. Authority agrees that SI shall not be in any manner liable for any delay arising out of Authority's failure to make the site ready within the stipulated period.	Request to amend this clause as follows: 11.7. Site Not Ready: Authority hereby agrees to make the project sites ready as per the agreed specifications, within the agreed timelines. Authority agrees that SI shall not be in any manner liable for any delay arising out of Authority's failure to make the site ready within the stipulated period and MSI shall be entitled to mutually agreed delay cost.	Refer to Addendum IV
Vol.3	1139	Honeywell Automation India Limited	vol.3- 13	19	13. Intellectual Property Rights	Request to amend this clause as follows MSI hereby grants to Authority a non-exclusive, non-sub licensable and perpetual license and right to use the deliverables, formats, material and the documentation solely for Authority's own internal business operations as set forth under the this Agreement. MSI's software license under this Agreement does not include the right to (a) sell, lease, exchange, mortgage, pledge, license, sub-license, assign or in any other way convey, transfer or alienate MSI property in favour of any person (either for commercial consideration or not (including by way of transmission) and/or (b) reverse compile or in any other way arrive at or attempt to arrive at the source code of the MSI property. All the software licenses and warranties pertaining to any software and/or hardware supplied under this agreement shall be as per MSI's license terms and conditions and/or End User License Agreement	Refer to Addendum VI
Vol.3	1140	Honeywell Automation India Limited	vol.3- 15	21	15. Indemnity 15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: a. any negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or b. any breach of any of the terms of SI's did as agreed, the RFP and this Contract by SI c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof 15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc. 15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and it's liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party	Request to amend this clause as follows 15. Indemnity 15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: a. any gross negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or b. any breach of any of the terms of SI's did as agreed, the RFP and this Contract by SI c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof 15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc. 15.3. Regardless of anything contained (except for SI's liability for bodily injury and it's liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims.	Refer to Addendum VI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.3	1141	Honeywell Automation India Limited	vol.3- 17.4	23	17.4. Where the Authority is of the view that no further extension of the term be granted to SI, the Authority shall notify SI of its decision at least 3 (three) months prior to the expiry of the Term. Upon receipt of such notice, SI shall continue to perform all its obligations hereunder, until such reasonable time beyond the Term of the Contract within which, the Authority shall either appoint an alternative agency/SI or create its own infrastructure to operate such Services as are provided under this Contract.	Please delete this clause	Refer to Addendum IV
Vol.3	1142	Honeywell Automation India Limited	vol.3- 22	25	22. Force Majeure	Please include as follows: Vandalism and terrorism as Force Majeure. Notwithstanding anything to the contrary, in light of the COVID-19 pandemic, the effects of which cannot be foreseen, the parties agree that parties shall consider this event as Force Majeure under the terms of this contract.	Refer to Addendum VI
Vol.3	1143	Honeywell Automation India Limited	vol.3- 26	27	26. Exit Management Plan	Please include as follows: :Exit management hereof shall not affect any accrued right or liability of either Party nor affect operation of provisions of Contract that are expressly or by implication intended to come into or continue in force on or after such exist management.	Refer to Addendum IV
Vol.3	1144	Honeywell Automation India Limited	vol.3- 28	29	28.2. The deduction shall not in any case exceed 10 % of the contract value.	Request to amend as: to be capped at 5 % of the Contract Value.	Refer to Addendum IV
Vol.3	1145	Honeywell Automation India Limited	vol.3- 29	29	29. Limitation of Liability: Limitation of Bidder's Liability towards the Authority: 29.1. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or wilful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher. 29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services. the Services,	Request to amend as: 29. Limitation of Liability: Limitation of Bidder's Liability towards the Authority: 29.1. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or wilful misconduct on the part of SI, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage upto the total payments payable under the Contract to SI.	Refer to Addendum VI

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Vol.3	1146	Honeywell Automation India Limited	vol.3- 34.1	32	34.1. SI shall not, either during the term or after expiration of this Contract, disclose any proprietary or confidential information relating to the Services/Contract and/or Authority's business/ operations, information, Application/software, hardware, business data, architecture schematics, designs, storage media and other information / documents without the prior written consent of the Authority.	Request to delete- " or after expiration".	Refer to Addendum IV
Vol.3	1147	Honeywell Automation India Limited	vol.3- 34.5	32	34.5. SI shall be liable to fully recompense the Authority for any loss of revenue arising from breach of confidentiality.	Request to delete this clause	Refer to Addendum IV
Vol.3	1148	Honeywell Automation India Limited	Additional clause		New Provision- Delay	Request to include this clause: Where SI incurs additional cost due to a delay to the date of completion (need to be agreed) from the date of PO/Work Order caused by Authority or their suppliers or their sub-contractors then SI shall be entitled to claim additional delay costs for such delay.	Refer to Addendum IV
Vol.3	1149	Honeywell Automation India Limited	Additional clause		Payment Delinquency	Request to include this clause If Customer is delinquent in its payment obligation to SI, SI may upon written notice to Customer stop work and withhold future shipments until all delinquent amounts and late interest, if any, are paid. If SI reasonably determines in its sole discretion that Customer fails to qualify for the above payment terms at any time, then SI may without notice to Customer modify or withdraw credit terms including, but not limited to, requiring advance payment, guarantees or other security.	Refer to Addendum IV
Vol.1	1150	Honeywell Automation India Limited	1	50	During the comprehensive warranty period, the successful bidder shall provide all product(s) and documentation updates, patches/fixes, and version upgrades within 15 days of their availability and should carry out installation and make operational the same at no additional cost to Authority.	Request to exclude Version upgrades from Bidder's scope	Refer to Addendum IV
Vol.2	1151	Honeywell Automation India Limited	Scope of Work	61	4.27 Project Defect Liability Period (DLP) / Warranty of Product & Services Bidder shall be responsible for Operation and Maintenance of each components (HW, SW, SW Patches, Upgrades and Service) related to this RFP for period of Five (5)-Years after final acceptance testing and handover to client. • All hardware items should to be quoted with 5 years replacement warranty from OEM and onsite support and services. • All software/subscription/licenses should be quoted with 5 years warranty, updates, upgrades (wherever applicable), support and services from OEM"	Request to exclude Version upgrades from Bidder's scope	Tender conditions shall prevail
Vol.2	1152	Honeywell Automation India Limited	6.1.6.3 Basic Infrastructure Services	325	Contact Centre Manpower for operationalization of the systems (9 resources in normal working in shift & 2 resources each in day shifts for Field O&M)	Please confirm this includes the relievers or not.	Yes, 9 Resources (3 resources in each shift) and 2 resources in dayshift is required as contact center manpower. Total 11 resources
Vol.2	1153	Honeywell Automation India Limited	7.2 Milestones and Payment Schedules for Operations and Maintenance Phase	346	Payment of Operations and maintenance phase will be made on quarterly basis (at completion of each quarter)	Request to amend as follows: Payment of Operations and maintenance phase to be made on quarterly basis at <u>start of each quarter in advance</u>	Tender conditions shall prevail
Vol.3	1154	Honeywell Automation India Limited	3	32	43.2. Performance Penalty for not meeting a measurement parameter for any two months in consecutive quarters shall result in twice the penalty percentage of that respective measurement parameter in the third quarter for all the three months	Request to amend as follows: 43.2. Performance Penalty for not meeting a measurement parameter for any two months in consecutive quarters shall result in twice the penalty percentage of that respective measurement parameter in the third month for all the three months	Refer to Addendum IV

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Vol.3	1155	Honeywell Automation India Limited	3	32	43.3. Maximum Penalty applicable for any quarter shall not exceed 30% of the 'applicable fees' for the respective quarter.	Request to amend as follows: 43.3. Maximum Penalty applicable for any quarter shall not exceed <u>10%</u> of the 'applicable fees' for the respective quarter.	Refer to Addendum VI
Vol.3	1156	Honeywell Automation India Limited	3	32	43.4. Three consecutive quarterly deductions of 30 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Request to amend as follows: 43.4. Three consecutive quarterly deductions of <u>10 %</u> of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Refer to Addendum VI
Vol.3	1157	Honeywell Automation India Limited	3	38	Bidder should keep minimum 10% spare at any given point of project execution.	Request to amend as follows: Bidder should keep minimum <u>2%</u> spare at any given point of project execution.	Refer to Addendum VI
Vol.1	1158	Honeywell Automation India Limited	VOL 1/clause no 2.8	16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2.59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank	Request you to allow us to furnish Bank Guarantee from scheduled Commercial Bank for earnest money deposit	Refer to Addendum VI
Vol.1	1159	Honeywell Automation India Limited	VOL 1/clause no 2.15	22	Prices quoted by the Bidder shall remain firm during the entire contract period and not subject to variation on any account	It seems from the clause that statutory variation is not available as per the terms of the tender . request you to include mentioned clause by way of corrigendum" our contract price would be amended if there is any amendment of existing taxes /duties/levies or there is introduction of any new taxes /duties/ levies by any state Government or central Government "	Refer to Addendum IV
Vol.1	1160	Honeywell Automation India Limited	VOL 1/clause no 2.11.3	21	The Bidder must submit the Commercial Bid as per format in Volume IV. Bidder shall submit the Commercial Bid online through E-procurement portal website only.	It is understood that we have to quote a basic rate inclusive of taxes . Request you to provide separate column to mention the taxes so that it would form the base for calculation and amendment of price if there is any statutory variation	Refer to Addendum IV
Vol.1	1161	Honeywell Automation India Limited	VOL 1/ clause no 4.3	49	Within fifteen (15) working days from the date of issuance of LOI, the successful Bidder shall at his own expense submit unconditional and irrevocable Performance Bank Guarantee (PBG) to the Authority. The PBG shall be from a Nationalized Bank having branch at Guwahati in the format prescribed in Section 8 -	Request you to allow us to furnish the Performance Bank Guarantee from Scheduled commercial bank	Refer to Addendum IV
Vol.1	1162	Honeywell Automation India Limited	VOL 1/ clause no 4.3	49	This Performance Bank Guarantee shall be valid up to six (6) months after successful completion of the contract for the total contract duration i.e., 'Go- Live' + 60 months of O&M.	Request you to confirm whether initially we can provide Performance security up to period of 3.5 years along with the letter mentioning that New PBG will be issued for future required period before expiring this BG	Refer to Addendum IV
Vol.3	1163	Honeywell Automation India Limited	VOL III / Clause no 12.5	16	All payments to SI shall be subject to the deductions of tax at source under Income Tax Act, and other taxes and deductions as provided for under any law, rule or regulation.	Request you to confirm that Labour cess /BOCW would not be deducted from our payment	Refer to Addendum IV
Vol.3	1164	Honeywell Automation India Limited			General Query 1	Request you to confirm whether ,Guwahati Smart City Limited is a Government organisation under GST Act definition .	Guwahati Smart City Limited is not a Govt. Company under GST Act
Vol.3	1165	Honeywell Automation India Limited			General Query 2	Request you to provide supporting documents to substantiate if the answer to general query 1 is yes	NA
Vol.3	1166	Honeywell Automation India Limited			General Query 3	Request you to confirm ,whether the original work/service taken under this contract is used by Guwahati Smart city Limited for other than for commerce, industry, or any other business or profession. & work/service under this contract are in relation to work entrusted by Central/State Govt or union territory or local Authority	The project is under Smart City Mission guidelines issued by MoHUA, GOI.
Vol.2	1167	Honeywell Automation India Limited	Vol-2 3.4 Project Objectives	11	Intelligent Video analytics at edge devices locations and centralized.	Intelligent Video analytics at edge devices locations or centralized.Please allow bidder to choose as per their design	Refer to addendum XII
Vol.2	1168	Honeywell Automation India Limited	Vol-2 4.21 Network Connectivity (OFC & RF)	14	Deployment of OFC Network and O&M of all passive components will be taken care by State-owned Network Provider/NW Service Provider.	Bidder will provide only BOQ line item for OFC network and as per this clause all other active/passive component will be provided by NW service provider for all backbone and access rings to camera/switches and same will be maintained by State owned NW	Deployment of Backbone OFC Network will be taken care by State-owned Network Provider/NW Service Provider and OFC Deployment in Access Network (from POP sides to Field Sensors) and Police Station Viewing Centres, POP Sites to ICCS and SDC will be under Bidder Scope.

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Vol.2	1169	Honeywell Automation India Limited	Vol2-4.5 Finalization of Detailed Technical Architecture	20	All the personnel working on the Project and having access to the Servers / Data Center should be on direct payroll of the SI/OEM/Consortium partner.	All the personnel working on the Project and having access to the Servers / Data Center should be on direct payroll of the SI/OEM/Consortium partner/OEM affiliated Partner .Please allow	Tender conditions shall prevail
Vol.2	1170	Honeywell Automation India Limited	Vol 2-4.16 Civil and Electrical Works	39	Laying of GI Pipes (B Class) complete with GI fitting	Please confirm that GI Pipes will be used only for road crossings and normal HDPE pipe will be used otherwise	GI pipes will be used at all locations where direct exposed to air and visible, otherwise for underground work HDPE pipes with wall thickness is more than 4 mm will be used.
Vol.2	1171	Honeywell Automation India Limited	Vol2-5.3.1.2 IT Infrastructure for Data centre	163	Minimum requirement provided in the RFP. In case any other components/features,if required, should be mentioned by the bidder in their proposal.	Bidder will provide requirement only in technical bid submission and will not consider the sme in Price bid if required.Please confirm	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	1172	Honeywell Automation India Limited	Vol2-7. Provisioning IT Security Equipment	164	DC shall work in an Active-Active mode.	DC shall work in an Active-Passive mode.As RTO/RPO is mentioned and RTO is of 10 minutes please allow DC High availability working in Active/Passive mode.This will optimize cost and also able to meet RTO. Please confirm	Tender conditions shall prevail
Vol.2	1173	Honeywell Automation India Limited	Vol2-7. Provisioning IT Security Equipment	165	Technology refresh is to be considered at the end of five years and SI must submit the report for the same.	Bidder will provide updates/pgrades if required and as O&M is only for 5 years we assume that this clause is applicable only when contact will be for renewal	Without renewal the contract bidder has to give this report.
Vol.2	1174	Honeywell Automation India Limited	Vol-2 Storage Specifications	201	For Secondary Storage, specification of Primary Storage may be considered changing the capacity to same or higher TB.	As mentioned in other clauses in RFP"balance 60 days will be on low cost secondary storage /tape library.".Please allow bidder to design secondary storage as per their design specification	Refer to Addendum IV
Vol.2	1175	Honeywell Automation India Limited	Vol-2 Storage Specifications	200	Should support disaster recovery mechanism natively	Please delete the same as it can restrict OEM Participation	Tender Clause prevails
Vol.2	1176	Honeywell Automation India Limited	Vol2-11.10 Business Continuity Planning and Disaster Recovery	359	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure and related IT & OT applications. IT & OT applications and processes should be supported from the disaster recovery site.	Bidder will use State Data Centre DR site only and all connectivity will be taken care by SDC and if required will be reimbursed to bidder as other charges related to SDC	Tender Clause prevails
Vol.2	1177	Honeywell Automation India Limited	Vol2-11.10 Business Continuity Planning and Disaster Recovery	359	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure and related IT & OT applications. IT & OT applications and processes should be supported from the disaster recovery site.	Please confirm location of Disaster recovery Site for Current SDC which will help to design complete solution part	NA
Vol.3	1178	Honeywell Automation India Limited	Vol-3 Penalties	32	Maximum Penalty applicable for any quarter shall not exceed 30% of the 'applicable fees' for the respective quarter.	Maximum Penalty applicable for any quarter shall not exceed 10% of the 'applicable fees' for the respective quarter.	Refer to Addendum IV
Vol.2	1179	Honeywell Automation India Limited	Vol2: 5.1.2.5 Other General Requirements A. Management/Integration functionality	Pg68	d) The Surveillance System shall support alarm management. The alarm managementshall allow for the continuous monitoring of the operational status and eventtriggered alarms from system servers, cameras and other external devices.	Since Alarm management is sub component of Incident Management and Incident management is already part of Command control platform, same RFP Volume 2, section 5.2.1 point 9 and 5.1.4.2 point 2, so to avoid duality, kindly modify below; d) The Surveillance/Command Control System shall support alarm management. The alarm managementshall allow for the continuous monitoring of the operational status and eventtriggered alarms from system servers, cameras and other external devices.	Refer to Addendum IV
Vol.2	1180	Honeywell Automation India Limited	Vol2: 5.1.2.5 Other General Requirements A. Management/Integration functionality	Pg68	e) It should be possible to integrate the Surveillance System with 3rd-party software, to enable the users to develop customized applications for enhancing the use of video surveillance solution. For e.g., integrating alarm management to initiate SMS, EMail, VoIP call etc.	Since Alarm management is sub component of Incident Management and Incident management is already part of Command control platform, same RFP Volume 2, section 5.2.1 point 9 and 5.1.4.2 point 2, so to avoid duality, kindly modify below; e) It should be possible to integrate the Surveillance System/Command Control with 3rd-party software, to enable the users to develop customized applications for enhancing the use of video surveillance solution. For e.g., integrating alarm management to initiate SMS, EMail, VoIP call etc.	Refer to Addendum IV

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Vol.2	1181	Honeywell Automation India Limited	Vol2: C. Rules	Pg69	C. Rules • Set non-default live frame rate • Set non-default recording rate	Kindly delete	Tender conditions shall prevail
Vol.2	1182	Honeywell Automation India Limited	Vol2: 5.1.2.5 Other General Requirements G. Alarm Management Module	Pg70	G. Alarm Management Module	Since Alarm management is sub component of Incident Management and Incident management quite is already part of Command control platform so to avoid duplicity, kindly modify below; G. Alarm Management Module from ICCC	It is required that the functionality is to be provided in totality, this may be by either by VMS / ICCC or any other application.
Vol.2	1183	Honeywell Automation India Limited	Vol2: 5.1.2.5 Other General Requirements G. Alarm Management Module	Pg70	e) Based on alarms/alerts, customized/standard alert messages should be published on VMB/PA, after authorization by a supervisor/operator.	We understand this requirement is for ICCC since incident management is part of ICCC, please confirm,	Refer to Addendum IV
Vol.2	1184	Honeywell Automation India Limited	Vol2: H. Other Miscellaneous Requirements	Pg71	d) SI shall be required to provide a standardized Mobile Application to integrate smart phones and tablets for 2-way communication with the Surveillance System in a secure manner. Guwahati Police may provide such tablets / smart phones to the designated Police Personnel. It will be responsibility of SI to configure such tablets / Smartphone, for the Surveillance System being implemented a part of this project and ensure that all the necessary access is given to these mobile users. Functionalities to be provided through mobile application: Viewing of any video stream from Central VMS, uploading of video / pictures central VMS, Location based GIS Map access, tagging of mobile device/location information for all relevant functionalities.	Since Mobile application is already part of Command control platform so to avoid duplicity, bidder can propose Mobile application from ICCC with all desired features. pl confirm	It is required that the functionality is to be provided in totality, this may be by either by VMS / ICCC or any other application.
Vol.2	1185	Honeywell Automation India Limited	Vol2: 5.1.4 Video Management System (VMS)	Pg91	16. All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of highresolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	Since GIS will be integral part of Command control platform so all CCTV cameras will be mapped on GIS and will be part of ICCC UI and GIS. Same has been already mentioned in RFP Volume 2, section 5.1.4.2 point 2, Kindly modify below; 16. All CCTV cameras locations shall be overlaid in graphical map in the VMS/ICCC Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of highresolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	Refer to Addendum IV
Vol.2	1186	Honeywell Automation India Limited	Vol2: 5.1.4 Video Management System (VMS)	Pg92	28. The VMS shall be capable of intrusion detection: Detection of moving objects in selected areas covered by the camera (those that are specified as restricted areas like those before some major events, etc.). Avoid false alarms due to wildlife or other moving objects (e.g., tree leaves). 29. The VMS shall be capable of tracing of a specific person or object in multi-camera videos: Track a specific person or object across several surveillance (e.g., to trace and identify criminals and/or anti-social elements). 30. The VMS shall be capable of counting of people and detection of abnormal crowdbehavior: Detection of people flow and counting of people in selected areas. To identify abnormal crowd behavior and raise alarms to avoid untoward incidences in public places and maintaining law & order.	Requirement is relevant to Video analytics hence bidder can achieve these functionalities through ICCC/VMS/Video analytics software, kindly confirm	Refer to Addendum IV

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Vol.2	1187	Honeywell Automation India Limited	Vol2: 5.1.4.2 VMS General	Pg94	6. Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection 7. Off-Line Video Analytics should allow for quick retrieval of video footage to metadata stored with each image. System should provide results within few seconds, system should support for below listed the user's query.	Requirement is relevant to Video analytics hence bidder can achieve these functionalities through ICCV/VMS/Video analytics software, kindly confirm	It is required that the functionality is to be provided in totality, this may be by either by VMS / ICCV / VA or any other application.
Vol.1	1188	Honeywell Automation India Limited	Volume 1, 2.29. Eligible Goods and Services, and OEM Criteria.	28	General	Request the authorities to kindly allow some weightage to MSIs quoting competent MSMEs as OEM partner for Software provision.	Refer to Addendum IV
Vol.2	1189	Honeywell Automation India Limited	Volume2, 5.1.4.14, a) Video Analytics Features	107	VA should enable any combination of analytics rules to run on the same camera simultaneously, without limitations.	In addition to the given requirement, kindly consider the below suggestion to enhance the ease in user experience from operator point of view. The system should allow deployment of any analytics to run on any camera without any MAC level or IP level locking. Any analytics should be deployable and redeployable on any camera or video source as far as the camera view supports such use cases to be deployed. The user interface should have a matrix to assign, start, stop and schedule any use-case on any camera.	Refer to Addendum IV
Vol.2	1190	Honeywell Automation India Limited	Volume2, 5.1.4.14, a) Video Analytics Features	106	10. The VMS should escalate the Events to recipients in the form of SMS/emails if the Events are not acknowledged by the operators within a specific period.	The mentioned requirement is an essential part of the Video Analytics software. Request you to kindly consider the following suggestion: The VA system should escalate the Events to recipients in the form of SMS/emails if the Events are not acknowledged by the operators within a specific period.	Refer to Addendum IV
Vol.2	1191	Honeywell Automation India Limited	Volume2, 5.1.4.14, a) Video Analytics Features	106	11. The VMS should send HTTP messages to any external server on receipt of the Events.	The mentioned requirement is an essential part of the Video Analytics software and can be better fulfilled using VA software. Request you to kindly consider the following suggestion: The VA system should send HTTP messages to any external server on receipt of the Events.	Refer to Addendum IV
Vol.2	1192	Honeywell Automation India Limited	Volume2, 5.1.4.14, a) Video Analytics Features	106	The VMS should show the Event messages on detection of Analytics events on the same Client live view panel instantly. On clicking on the message, relevant snap of the scene should appear on screen. On dragging the message to any video tile in the live view panel, the relevant portion of the video should be replayed automatically.	The mentioned requirement is an essential part of the Video Analytics software. Request you to kindly consider the following suggestion: The VA should show the Event messages on detection of Analytics events on the same Client live view panel instantly. The system should provide the following key UI screens: Event Notifications: The result of any video analytics app should be in the form of events that contain the screenshot with other metadata describing the event, such as detected objects, timestamp, camera/video that generated the event and all other metadata representing the event from different apps. The User Interface should have a grid and list view with all the events from different cameras etc. Data Analytics Dashboard: The user interface should also have an analytics dashboard listing all the patterns of events from different cameras and apps with a heat map of number of events on an hourly basis. App Camera Grid: The user interface should have a matrix to assign, start, stop and schedule any app on any camera. The status of active and non-active apps should be clearly visible with color coded information.	Refer to Addendum IV

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Vol.2	1193	Honeywell Automation India Limited	5.1.3.1 Dome CCTV Cameras	73	1. Three-level password protection, IP Address filtering, User Access Log, HTTPS encryption 2. 802.1x network authentication with EAP/TLS 3. Signed Firmware 4.FTP disabled and Telnet closed, 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471	Please delete "Three-level password protection" Please amend 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471 and add "or any cyber security certification from UL/EN/IEC" Please complete the statement 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions and add " is tested for cyber security and will not tap information regarding network, network users and information stored on the network that is classified and or related to national Security, there by contravening Official Secrets Act 1923 and are / will be free from Trojans, Viruses, worms, Spy wares or any malicious software offered or Software that will be developed. " Please add "OEM of CCTV Camera should have supplied for outdoor installation at least 2000 Cameras in a single project in India"	Refer to Addendum IV
Vol.2	1194	Honeywell Automation India Limited	5.1.3.1 Dome CCTV Cameras	73	ONVIF profile S, G & T	Please delete ONVIF T. Please add the following: Camera should be listed in ONVIF website as a conformant model and ONVIF Certificate should be downloadable for each of the proposed models from the ONVIF website.	Refer to Addendum IV
Vol.2	1195	Honeywell Automation India Limited	5.1.3.1 Dome CCTV Cameras	74	Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	Please delete this clause.	Refer to Addendum IV
Vol.2	1196	Honeywell Automation India Limited	5.1.3.2 Fixed Bullet CCTV Cameras	75	Multiple Streams: Quad stream	Please amend to "Triple streaming fully configurable / Multi-streaming"	Refer to Addendum XII
Vol.2	1197	Honeywell Automation India Limited	5.1.3.2 Fixed Bullet CCTV Cameras	75	Auto adjustment + Remote Control of Image settings : Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 5 Privacy masks, noise reduction, SNR >50 dB	Please amend to " Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB"	Refer to Addendum IV
Vol.2	1198	Honeywell Automation India Limited	5.1.3.2 Fixed Bullet CCTV Cameras	76	1. Three-level password protection, IP Address filtering, User Access Log, HTTPS encryption 2. 802.1x network authentication with EAP/TLS 3. Signed Firmware 4.FTP disabled and Telnet closed, 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471	Please delete "Three-level password protection" Please amend 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471 and add "or any cyber security certification from UL/EN/IEC" Please complete the statement 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions and add " is tested for cyber security and will not tap information regarding network, network users and information stored on the network that is classified and or related to national Security, there by contravening Official Secrets Act 1923 and are / will be free from Trojans, Viruses, worms, Spy wares or any malicious software offered or Software that will be developed. " Please add "OEM of CCTV Camera should have supplied for outdoor installation at least 2000 Cameras in a single project in India"	Refer to Addendum IV
Vol.2	1199	Honeywell Automation India Limited	5.1.3.2 Fixed Bullet CCTV Cameras	76	Crowd density estimation.	Please delete crowd density estimation.	Refer to Addendum IV
Vol.2	1200	Honeywell Automation India Limited	5.1.3.2 Fixed Bullet CCTV Cameras	76	ONVIF profile S, G & T	Please delete ONVIF T. Please add the following: Camera should be listed in ONVIF website as a conformant model and ONVIF Certificate should be downloadable for each of the proposed models from the ONVIF website.	Refer to Addendum IV
Vol.2	1201	Honeywell Automation India Limited	5.1.3.2 Fixed Bullet CCTV Cameras	74	Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	Please delete this clause.	Refer to Addendum IV
Vol.2	1202	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	78	Multiple Streams: Quad stream	Please amend to "Triple streaming fully configurable / Multi-streaming"	Refer to Addendum XII

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Vol.2	1203	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	79	1. Three-level password protection, IP Address filtering, User Access Log, HTTPS encryption 2. 802.1x network authentication with EAP/TLS 3. Signed Firmware 4.FTP disabled and Telnet closed, 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471	Please delete "Three-level password protection" Please amend 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471 and add "or any cyber security certification from UL/EN/IEC" Please complete the statement 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions and add " is tested for cyber security and will not tap information regarding network, network users and information stored on the network that is classified and or related to national Security, there by contravening Official Secrets Act 1923 and are / will be free from Trojans, Viruses, worms, Spy wares or any malicious software offered or Software that will be developed. " Please add "OEM of CCTV Camera should have supplied for outdoor installation at least 2000 Cameras in a single project in India" Please add "All proposed Camera models should be RoHS certified"	Refer to Addendum IV
Vol.2	1204	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	79	Camera must have edge base analytics Viz; Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera	Please delete edge analytic requirement from PTZ Cameras	Refer to Addendum IV
Vol.2	1205	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	80	IP66 Rated	Please amend to "IP-67 & IK10 (full body including glass)"	Refer to Addendum IV
Vol.2	1206	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	80	Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interface	2 Input & 1 Output	Refer to Addendum IV
Vol.2	1207	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	80	ONVIF profile S, G & T	Please delete ONVIF T. Please add the following: Camera should be listed in ONVIF website as a conformant model and ONVIF Certificate should be downloadable for each of the proposed models from the ONVIF website.	Refer to Addendum IV
Vol.2	1208	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	80	Inbuilt 850nm intensity adjustable IR with minimum 180 meters range, with object identification	Please amend to "Inbuilt intensity adjustable IR with minimum 180 meters range"	Refer to Addendum IV

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1209	Honeywell Automation India Limited	4.20 Edge Analytics	80	<p>1. Three-level password protection, IP Address filtering, User Access Log, HTTPS encryption 2. 802.1x network authentication with EAP/TLS 3. Signed Firmware 4.FTP disabled and Telnet closed, 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions</p> <p>6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471</p>	<p>Please delete "Three-level password protection"</p> <p>Please amend 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471 and add "or any cyber security certification from UL/EN/IEC"</p> <p>Please complete the statement 5. OEM need to confirm on their letter head that any component/ hardware/ parts/assembly/ software including firmware used in the offered solutions and add " is tested for cyber security and will not tap information regarding network, network users and information stored on the network that is classified and or related to national Security, there by contravening Official Secrets Act 1923 and are / will be free from Trojans, Viruses, worms, Spy wares or any malicious software offered or Software that will be developed. "</p> <p>Please add "OEM of CCTV Camera should have supplied for outdoor installation at least 2000 Cameras in a single project in India"</p> <p>Please add "All proposed Camera models should be RoHS certified"</p>	Refer to Addendum IV
Vol.2	1210	Honeywell Automation India Limited	Volume-2/4.20 Edge Analytics	42	<p>4.20 Edge Analytics</p> <p>The SI will be responsible for designing and implementing edge analytics at camera level.</p> <p>Following listed use cases should be part of implementation and should be not be limited to:</p> <p>1. Safety: Detection and classification based on:</p> <p>a) Parking violation</p> <p>b) Loitering detection</p> <p>c) Crowd Detection</p> <p>d) Gesture recognition: Identification through gesture change</p> <p>2. Wrong way or illegal turn detection at ITMS Signal Crossing.</p>	<p>Please allow the MSI to choose either edge or central server based analytics.</p>	<p>Edge Analytics</p> <p>The SI will be responsible for designing and implementing edge analytics at either at camera level or server level. Following listed use cases should be part of implementation and should be not be limited to:</p> <p>1. Safety: Detection and classification based on:</p> <p>a) Parking violation</p> <p>b) Loitering detection</p> <p>c) Crowd Detection</p> <p>d) people counting,</p> <p>e) line crossing,</p> <p>f) Idle/removed object, scene change</p> <p>g) Follow route</p> <p>2. Wrong way or illegal turn detection.</p>
Vol.2	1211	Honeywell Automation India Limited	5.1.3.3 PTZ CCTV Cameras	80	<p>Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.</p>	<p>Please delete this clause.</p>	Refer to Addendum IV
Vol.1	1212	Honeywell Automation India Limited	Volume 1: 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	<p>2.29. Eligible Goods and Services, and OEM Criteria</p> <p>i) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.</p>	<p>As per the OEM eligibility criteria, ICCC OEM should have onboarded atleast 1000 Cameras/Sensors in atleast 2 Cities, which is acceptable as it proves the ICCC capability, however, ICCC OEM's are usually not in direct contact with the Clients, hence request you to accept the Installation/Completion report from the System Integrators.</p> <p>Hence request you to modify the clause as below:</p> <p>i) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from the System Integrators needs to be submitted along with the bid documents.</p>	Refer to Addendum IV

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1213	Honeywell Automation India Limited	Volume 2: 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	Page 116 of 400	Global Market Presence & Support System 74. Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	As per MoUD letter(Point 3 & 4), foreign certifications and restrictive clauses such as Gartner and Navigant listing for OEMs for Pre-Qualification are not valid and shall not provide level playing ground for all OEMs. Post this guidelines by MoUD none of the RFP's have come up with this clause and this clause restricts open competition. Hence authority is requested to delete this clause or else amend the clause as below to ensure quality OEM participation: OEM for Command Control Software should have deployed at least one project in state government /Government of India or globally.	This clause is deleted
Vol.2	1214	Honeywell Automation India Limited	Volume 2: 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	Page 124 of 400	Dispatch System for Command and Control Operations 158. The proposed Communication Platform should streamline communications and enhances productivity with integrated presence, Chat, voice and video, desktop sharing, UHF/ VHF communication and conferencing capabilities. The System must be capable of calling between operator, UHF/ VHF, VoIP and PSTN or mobile network. The system should have capabilities of achieving collaboration between any users of control room, the system should have capabilities enabling HD Video meetings between Smart City Team and other departments like Fire, Ambulance, Police, Traffic, etc. IP-based dispatch console: 183. The dispatch console shall be a Microsoft Windows program with Windows 10 support. 184. The Dispatch Console shall provide control of radio resources through an on-screen interface 185. The dispatch software shall run on a standard PC platform, and extend existing push-to-talk (PTT) radio channels so that users with a variety of communication devices can participate in incident communication 186. It shall enable users to monitor and coordinate emergency response across incompatible radio systems and between multiple departments and agencies.	We would like to inform that while the Unified Communication System is a must have in the Smart City Command Centre, it needs to be considered as an independent solution and not part of the ICC Platform Specifications. A separate BOQ Line Item needs to be introduced for this solution. This Platform is available as a COTS Product from multiple reputed vendors (Motorola, Avaya, etc) hence it requires a separate Dispatch Console that allows the integration of multiple stake holders on IP Phone, UHF/ VHF, Mobile network or PSTN into a conference. This is most often used by Distaster Management Agencies & Emergency Services Agencies with the option to integrate multiple OEM Solutions. Currently by placing it under the ICC Specifications, it will limit the participation of the ICC & UC Platform OEM's and will favor only a specific OEM.	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.
Vol.2	1215	Honeywell Automation India Limited	Volume 2: 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	Page 122 of 400	Unified Communication Platform for Smart ICC Operation 158. The proposed Communication Platform should streamline communications and enhances productivity with integrated presence, Chat, voice and video, desktop sharing, UHF/ VHF Communication and conferencing capabilities. The System must be capable of calling between operator, UHF/ VHF, VoIP and PSTN or mobile network. The system should have capabilities of achieving collaboration between any users of control room, the system should have capabilities enabling HD Video meetings between Smart City Team and other departments like Fire, Ambulance, Police, Traffic, etc.	We would like to inform that while the Unified Communication System is a must have in the Smart City Command Centre, it needs to be considered as an independent solution and not part of the ICC Platform Specifications. A separate BOQ Line Item needs to be introduced for this solution. This Platform is available as a COTS Product from multiple reputed vendors (Motorola, Avaya, etc) hence it requires a separate Dispatch Console that allows the integration of multiple stake holders on IP Phone, UHF/ VHF, Mobile network or PSTN into a conference. This is most often used by Distaster Management Agencies & Emergency Services Agencies with the option to integrate multiple OEM Solutions. Currently by placing it under the ICC Specifications, it will limit the participation of the ICC & UC Platform OEM's and will favor only a specific OEM.	This tool / platform can be internal or external to ICC. However, if external, ICC should support seamless integration with third party tool / platform.

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Vol.1	1216	STL - Sterlite Technologies Limited	Vol 1 Section 3 Pre-Qualification Criteria Serial No 3	34	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	Kindly modify the clause and reduce the IP CCTV required to 350 instead of 1000. As this is QCBS bid and bidder's need to score higher in TQ also, kindly allow Bidder's to meet the Pre-qualification by reducing the number of cameras. It will enable us to participate in the bid. Kindly modify the clause as: The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 350 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	Tender conditions shall prevail.
Vol.2	1217	STL - Sterlite Technologies Limited	Volume-2 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	42	To expedite the project deployment, GSCL intended to use the State-Owned Network's OFC Connectivity along with their existing POP sites' Space, Backbone OFC (Between POP Sites to SDC & ICC) and Power Infrastructure. SI will design the OFC network in coordination with State Owned NW service Provider and deploy the Active Components (Transmission Equipment & other Devices) at provided POP sites spac	Kindly confirm the below points . a. Kindly confirm , is this State-Owned Network's is a Govt. network. b. This state-owned network to be used for Backbone network ? c. Or complete New OSP network to be planned ?	a. State owned Network is Govt Enterprises Network. b. This state-owned network to be used for Backbone network only. c. For remaining NW (access & aggregate), SI bidder shall deploy the new OFC network for the GSCL.
Vol.2	1218	STL - Sterlite Technologies Limited	Volume-2 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	42	To expedite the project deployment, GSCL intended to use the State-Owned Network's OFC Connectivity along with their existing POP sites' Space, Backbone OFC (Between POP Sites to SDC & ICC) and Power Infrastructure. SI will design the OFC network in coordination with State Owned NW service Provider and deploy the Active Components (Transmission Equipment & other Devices) at provided POP sites spac	Kindly share the state -owned Network's OFC Route Kml/kmz file .	This will be share after selection of SI bidder.
Vol.2	1219	STL - Sterlite Technologies Limited	Volume-2 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	42	To expedite the project deployment, GSCL intended to use the State-Owned Network's OFC Connectivity along with their existing POP sites' Space, Backbone OFC (Between POP Sites to SDC & ICC) and Power Infrastructure. SI will design the OFC network in coordination with State Owned NW service Provider and deploy the Active Components (Transmission Equipment & other Devices) at provided POP sites spac	Kindly share the state -owned Network's existing POP sites name and latitude-longitude details.	This will be share after selection of SI bidder.
Vol.2	1220	STL - Sterlite Technologies Limited	Volume-2 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	43	2. State-owned Network Provider/NW Service Provider shall provide the 20-30 Nos of POP sites across the Guwahati city and bidder shall decide the final locations and count of POS sites and also design the OFC network with coordination with State-owned Network Provider/NW Service Provider.	What do you mean by State-owned Network Provider/NW Service Provider ? This is Private Telecom Operator network or Govt network. Kindly confirm.	State owned NW Provider = Govt Enterprises & Network Service Provider = Any NW (govt or Private NW Provider)
Vol.2	1221	STL - Sterlite Technologies Limited	Volume-2 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	43	7. The provisioning of the POPs for the City Network Backbone at the Junction and other field locations will be mutually agreed upon by the GSCL and the SI for the city surveillance and ITMS project.	We believe these tentative POPS for city Network Backbone at the Junction and other field location will be Govt. office building / Police Station locations etc. Kindly confirm .	These POP locations are throughout the city and mostly on Govt Premises or Owned by Govt NW Service Provider.
Vol.2	1222	STL - Sterlite Technologies Limited	Volume-2 4.22 Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICC	49	3. a) Supply, Install and Commission of IT Infrastructure including site preparation in DC (State Data Center) and ICC (First temporary locations & then after shifting the all HW & SW to new permanent building)	Kindly share the building name and Latitude/Longitude of DC(State Data Center).	Will be provided to winning bidder.

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Vol.2	1223	STL - Sterlite Technologies Limited	Volume-2 5.1.2.4 Storage/Recording Requirements	66	c) Redundancy of first 30 days storage will be provided by SI either in State Data Centre or Near Disaster Recovery Centre. (Near DR)	Kindly share the building name and Latitude/Longitude of Near Disaster Recovery Centre(Near DR)	There is no disaster Recovery Centre planned in this RFP.
Vol.2	1224	STL - Sterlite Technologies Limited	5.5.2 OFC Deployment Guidelines & Specification K) Constructions of Pre-Cast JP/LP Chambers	279	J) Joint-Pit & Loop Pit Chambers The Joint-Pit Chambers are provided at every joint to keep the O.F.C. joint well protected and also to keep extra length of cable, which may be, required to attend the faults at a later date. Jointing chambers are to be prepared normally at a distance of every 2 KMs in City Area. Actual location of jointing chamber depends on length of cable drum and appropriateness of location for carrying out jointing work. The location is finalized by Engineer-in-charge. The jointing chambers are constructed either of brick masonry work at site & pre cast RCC for covers or by way of fixing pre cast RCC chambers and covers as per the instructions from site Engineer-In-charge. This OFC Ducting for city roads, hence we have planned to keep Loop-Pit Chambers on every 200 Meters of intervals for better connectivity of field devices and sensors. A broad indicating architecture are mentioned below figures.	We understand that Joint Pit-chamber at every 2 km interval and Loop-Pit chamber at every 200 meter interval for entire underground work . Kindly confirm.	Joint Pit Chambers will be on every 2 KMS and Loop Pits will be on every 200 Meters.
Vol.2	1225	STL - Sterlite Technologies Limited	Volume-2 5.5.2 OFC Deployment Guidelines & Specification	279	The jointing chambers are constructed either of brick masonry work at site & pre cast RCC for covers or by way of fixing pre cast RCC chambers and covers as per the instructions from site Engineer-In-charge.	Kindly share the complete drawing and dimension of pre cast RCC chamber and cover.	Refer to RFP- Vol.2 Page No. 279, K) Constructions of Pre-Cast JP/LP Chambers-Parameters.
Vol.2	1226	STL - Sterlite Technologies Limited	Volume-2 5.5.2.1 Under-Ground (UG) – OFC Specifications	287	• HDPE Duct 1 Numbers (RED and GREEN) or as approved by authority (GSCL). For Crossings, specifications for the respective crossings to be followed if specified.	We understand that 1 No. of HDPE Duct to be laid in entire network route. For Crossings, specifications for the respective crossings to be followed if specified.	Yes 1 Nos of HDPE Duct (Red or Green) or as approved by GSCL.
Vol.2	1227	STL - Sterlite Technologies Limited	Volume-2 5.5.2.1 Under-Ground (UG) – OFC Specifications	288	• RCC Rectangular/Cylinder Chamber can be constructed as per specification at zero lid depth from NGL (Normal Ground Level).	Kindly share the complete drawing of Cylinder Chamber with dimension.	Refer to RFP- Vol.2 Page No. 279, K) Constructions of Pre-Cast JP/LP Chambers-Parameters.
Vol.2	1228	STL - Sterlite Technologies Limited	Volume-2 L) Route Markers (RM)	283	L) Route Markers (RM) b) Physical RM should be placed at every 100 Meter on route and every corner turning, crossing, culvert, JP, LP locations.	Route Marker(RM) to be placed at every 100 meter or 200 meter distance ? Kindly confirm, as at different pages it is mentioned different distance.	RM are at every 100 Meters
Vol.2	1229	STL - Sterlite Technologies Limited	Volume-2 5.5.2.1 Under-Ground (UG) – OFC Specifications	291	24. Route Markers Every 200 Meter and at Major Crossing, Major Trench Deviation or route diversion at both end	Route Marker(RM) to be placed at every 100 meter or 200 meter distance ? Kindly confirm, as at different pages it is mentioned different distance.	RM are at every 100 Meters
Vol.2	1230	STL - Sterlite Technologies Limited	Volume-2 5.5.2.1 Under-Ground (UG) – OFC Specifications	290	20. NH/SH Crossing • In case of multiple road crossings, Loop Chamber to be placed at every 500 Meter.	Kindly clarify , in volume-2 page no. 279 it is said that loop chamber will be at every 200 Meters of intervals whereas on page no. 290 it is said Loop Chamber to be placed at every 500 meter.	This clause stand deleted
Vol.2	1231	STL - Sterlite Technologies Limited	Volume-2 5.5.2.1 Under-Ground (UG) – OFC Specifications	290	24. Route Markers • Electronic Route Markers shall be buried at depth of 0.9 Meter from ground in the trench during backfilling the trench and at 100 Meter Distance, wherever applicable	We understand that at every 100 meter , we are going to place both Electronic Route Marker as well as Physical Route Marker. Kindly confirm.	RM are at every 100 Meters
Vol.2	1232	STL - Sterlite Technologies Limited	Volume-2 5.5.2.2 Over-Head (OH) - OFC	292	Permanent Aerial Cabling • Pole should be undergrounded at least 1 M and fix with proper 1:2:4 concreting(200mm(dia)*500mm(Height) all-around of pole	Kindly share the complete Aerial Pole specifications which are going to be used in Permanent Aerial Cabling . Kindly include this line item in Schedule of Requirement(SOR) sheet with Quantity.	Tender conditions shall prevail

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Vol.2	1233	STL - Sterlite Technologies Limited	Volume-2 5.5.2.2 Over-Head (OH) - OFC	292	Permanent Aerial Cabling • Pole should be undergrounded at least 1 M and fix with proper 1:2:4 concreting(200mm(dia)*500mm(Height) all-around of pole	In permanent Aerial Cabling, can we use the existing electric pole installed in city ? Kindly confirm .	Yes, we can use the existing electricity Pole (APDCL) for aerial cabling.
Vol.2	1234	STL - Sterlite Technologies Limited	Volume-2 5.5.2.2 Over-Head (OH) - OFC	292	Permanent Aerial Cabling • Approx. 2- 3MM dia GI string wire to be used for support of OFC and OFC not to be tighten directly by wire.	Kindly share the complete Aerial Accessories to be considered viz. Helix Type-I /Helix Type-II / Wedge in Permanent Aerial Cabling .	Tender conditions shall prevail
Vol.2	1235	STL - Sterlite Technologies Limited	Volume-2 5.5.2.6 HDPE Duct (PLB Type)	294	HDPE Duct Size : 40 mm outer dia & 32 mm internal dia	Standard size is 40 mm outer dia & 33 mm internal dia. Kindly confirm to proceed with this dimension	Tender conditions shall prevail
Vol.2	1236	STL - Sterlite Technologies Limited	Volume-2 5.5.2.6 HDPE Duct (PLB Type)	294	HDPE DUCT-Service Life-50 Years	Ideally it should be 25 year. Kindly confirm.	Tender conditions shall prevail
Vol.2	1237	STL - Sterlite Technologies Limited	Volume-2 5.5.2.7 Joint Closure (Splice Closure)	295	JOINT CLOSURE-Splice Capacity-Splice capacity of 96F	As we are going to use 24 F OFC cable it should have splice capacity of minimum 24 F	Accepted - 24F OFC Joint Closure
Vol.2	1238	STL - Sterlite Technologies Limited	Volume-2 5.5.2.7 Joint Closure (Splice Closure)	295	JOINT CLOSURE-Splice Capacity-Splice capacity of 96F	Kindly share the number of tray and per tray capacity to be considered for the same .	Accepted - 24F OFC Joint Closure
Vol.2	1239	STL - Sterlite Technologies Limited	Volume-2 5.5.2.8 Patch Panel (LIU)	295	PATCH PANNEL (LIU) & CONNECTOR (8 Port & 48 Port)	Kindly share the Connector Type for 8 port and 48 port LIU.	As we are using 24F OFC in Access & Backbone Network, but we need 46F LIU and connector type shall be SC/APC
Vol.2	1240	STL - Sterlite Technologies Limited	Volume-2 12.6 Tentative POP Site Locations	393	12.6 Tentative POP Site Locations PoP Locations (Smart City)	Kindly share all 23 Smart City PoP Locations latitude and longitude.	Will be provided to winning SI bidder
Vol.2	1241	STL - Sterlite Technologies Limited	Volume-2 12.7 Bill of Material (BOM) Summary	397	3. 0. OFC - Network 3.1.13 FDMS/LIU Equipment - 23 Nos.	We understand that this is 48 Port FMDS Quantity . Kindly confirm	As we are using 24F OFC in Access & Backbone Network, but we need 46F LIU and connector type shall be SC/APC
Vol.2	1242	STL - Sterlite Technologies Limited	Volume-2 12.7 Bill of Material (BOM) Summary	397	3.1.11 Overhead OFC Deployment Cost (Including OFC, Pole, RM, JC Closure & Fixture)-150 Km	Kindly share the tentative Pole Quantity as a separate line item for 150 Km scope .	This would be done by winning SI bidder then after we will be able to share exact QTY.
Vol.2	1243	STL - Sterlite Technologies Limited	Volume-2 12.7 Bill of Material (BOM) Summary	397	3.1.11 Overhead OFC Deployment Cost (Including OFC, Pole, RM, JC Closure & Fixture)-150 Kms 3.1.11 Underground OFC Deployment Cost (Including OFC, HDPE Ducts, Couplers, RM, Chambers JC Closures)- 200 Kms	We understand that there is total 150+200= 350 Km deployment scope . Kindly confirm	Yes, This figure can be increased or decreased. This Lum-Sum QTY is only for bid evaluation.
Vol.2	1244	STL - Sterlite Technologies Limited	5.5.5 Wireless RF for redundant Connectivity – Short Distance	306	Sr. No. 26 . Latency should not exceed 20 ms with full traffic load condition	Please clarify, 20 ms Latency on RF connectivity or End -end connectivity.	Tender conditions shall prevail
Vol.2	1245	STL - Sterlite Technologies Limited	5.5.5 Wireless RF for redundant Connectivity – Short Distance	306	Radio should support Wind speed (operational) of 170km/h.	As per our understanding, Tower & Pole infrastructure support the 170 Km/h . Kindly confirm.	Tender conditions shall prevail
Vol.2	1246	STL - Sterlite Technologies Limited	5.5.5 Wireless RF for redundant Connectivity – Short Distance	306	The radio should support IPv4 & IPv6 protocol filtering and prioritization	Please clarify, RF radio presently working on IPv4 Protocol Only	Tender conditions shall prevail
Vol.2	1247	STL - Sterlite Technologies Limited	5.5.7 Point-to-Point (P2P) Connectivity – Long Distance	312	39 Wind Survival 200 km/h	Please clarify, Wind Radio should support Wind speed 200M or 170 KM ?	Tender conditions shall prevail

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Vol.2	1248	STL - Sterlite Technologies Limited	Vol 2; Section 13	21	GIS Integration- SI shall undertake detail assessment for integration of the Surveillance System and all other components with the Geographical Information System (GIS). SI is required to carry out the seamless integration to ensure ease of use of GIS in the Dashboards in Command Control Centre. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. SI is to check the availability of such data and it's suitability for the project.SI is required to update GIS maps from time to time.	Understand that scope of SI is limited to updation in GIS of the components supplied by SI. The supply also include the land base of Guwahati city. Kindly confirm.	Tender conditions prevail refer to response at SL no 579
Vol.2	1249	STL - Sterlite Technologies Limited	Vol 2; Section 15.2	23	The ICCC Application should have roadmap to integrate with key initiatives of State namely Portal Services, Citizen Contact Centre, Certifying Authority etc	Any application which is ready to be integrated with ICCC will be integrated. Requesting GSCL to have a Single Point of Contact for co-ordination with various departments and ensure availability of required APIs/interfaces. Any delay in providing APIs for integration will be excluded from Project timelines and the Go-Live will be done without the integrations which are not ready/APIs not available. Kindly confirm	GSCL will provide the Single Point of Contact for co-ordination with various departments and ensure availability of required APIs/interfaces.
Vol.2	1250	STL - Sterlite Technologies Limited	Vol 2; Section 4.6.1	23	Prior to starting the site clearance, the SI shall carry out survey of field locations as specified in Annexure VIII under section of 12.0, for buildings, structures, fences, UG utilities' – Power Cables & Water Pipelines, OFC NW of other Operators, Trees, existing installations, etc. The GSCL shall be fully informed of the results of the survey and the amount and extent of the demolition and site clearance shall then be agreed with the GSCL.	Kindly confirm that GSCL will facilitate the approvals for any demolition, cutting of trees etc. Any charges regarding the same will be reimbursed by GSCL. Further, any delay in obtaining the permissions for the same will not be part of project implementation timeline. Kindly confirm.	Tender conditions prevail Additionally pl refer to Clause 4.6.4 (1) of Volume II, Page 24
Vol.2	1251	STL - Sterlite Technologies Limited	Vol 2; Section 5.2.19	157	Training	Kindly confirm the number of persons and batches required for Complete training GSCL personnel pertaining to this scope	Tender conditions shall prevail
Vol.2	1252	STL - Sterlite Technologies Limited	Vol 2; Section 6.1.5	324	Project Go-Live	Request Project Go-Live at 90% of the scope. Any sites which are delayed beyond the reasonable control of SI to be excluded from Go-Live	Tender conditions shall prevail
Vol.2	1253	STL - Sterlite Technologies Limited	Vol 2; Section 6.1.5	324	The SI shall ensure that all the data migration is done from existing systems (if any).	Pls confirm the scope of data migration	Tender conditions shall prevail
Vol.2	1254	STL - Sterlite Technologies Limited	Vol 2; 6.1.10.1	335	The SI agrees that the requirements given in the Bidding Documents are minimum requirements and are only indicative. The SI would need to fetch out the details at the time of preparing the design document prior to actual implementation. It shall be the responsibility of the SI to meet all the requirements of technical specifications contained Guwahati Smart City Limited in the RFP and any upward revisions and/or additions of quantities, specifications sizes given in the Bidding Documents required to be made during execution of the works, shall not constitute a change order and shall be carried out without a change order and shall be carried out without any time and cost effect to Purchaser.	Understand any variation in quantities during detailed design due to increase/change in sites or change in specifications will be considered as part of change management with additional cost. Kindly confirm	Yes, Change Management will be applicable in this RFP.
Vol.2	1255	STL - Sterlite Technologies Limited	4.15 Power & UPS - for Field Locations	Page 39 of 400	3. SI shall carry out a study and identify locations to provide UPS backup, depending upon power situation across city, to meet the camera and other field equipment's uptime requirements.	Power utility will be connected through Utility Power companies and it will be beyond in control to the bidders. Kindly provide the power backup time and bidder will maintain the SLA based on the UPS backup time	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1256	STL - Sterlite Technologies Limited	Vol.02 :4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	Page 37 of 400	4. The size of outdoor cabinet / Junction Boxes shall be sufficient to house all the system components, which may be installed at the intersection or nearby. Boxes shall be dustproof and impermeable to splash-water. They shall be suitable for the Guwahati's environmental conditions. They shall have separate lockable doors for: i. Power cabinet: This cabinet shall house the electricity meter, online UPS system and the redundant power supply system ii. Control cabinet: This cabinet shall house the controllers for all the field components at that location e.g. PTZ, Fixed cameras etc. 7. The Junction Box for UPS with Battery bank needs to be considered separately.	Kindly clarify that separate junction box for UPS with battery and network , controller equipments or compartalizaion within one Junction box needs to be provided as clause 4 & 7 are contradictory to each other. Also please provide the size of the junction box	Deleted the clause no. 4.14 Sr, No. 7. The Junction Box for UPS with Battery bank needs to be considered separately. Bidder can Propose the Single Junction box that can be sufficient to house all power equipments, battery and control/networking unit in a single box.
Vol.2	1257	STL - Sterlite Technologies Limited	Vol.02:5.1.3.5 Poles for Camera	Page 82 of 400	4 Height 10 Meters (or higher), as-per requirements for different types of cameras & Site conditions	The pole height of the 10 mtr is on higher side for the camera installation and as per general practice camera height should be 6 mtr. Kindly change the pole height to 6 mtr for better visibility.	Tender conditions shall prevail
Vol.2	1258	STL - Sterlite Technologies Limited	Vol.02:5.1.3.8 Online UPS for Field Locations	Page 88 of 400	13 Battery Backup 30 Mins Power backup Required. Adequate and required battery backup to achieve required uptime of field device as well as SLA of the overall solution.	Kindly remove the clause for "Adequate and required battery backup to achieve required uptime of field device as well as SLA of the overall solution." as power utility will be connected through Utility Power companies and it will be beyond in control to the bidders. Also please clarify that battery backup of 30 min will be taken on the UPS capacity or connected load	Tender conditions shall prevail
Vol.2	1259	STL - Sterlite Technologies Limited	Vol.02:5.1.3.8 Online UPS for Field Locations	Page 88 of 400	15 General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	As industry standards UPS operating temperature range will be 0 to 40 Degree C hence request you to change the operating Temp. range.	15 General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions
Vol.2	1260	STL - Sterlite Technologies Limited	Vol.02:5.2.11.8 Water leak detection system -ICCC	Page 147 of 400	The Water Leak Detection System shall be installed to detect any seepage of water into the critical area and alert the security control room for such leakage.	Kindly clarify the critical area of the ICCC for the water leak detection system deployment	Will be defined at the time of implementation
Vol.2	1261	STL - Sterlite Technologies Limited	Vol.02:5.2.16 Diesel Generator Set (DG) 75 KVA - ICCC	Page 150 of 400	2. Capacity 75 KVA	AS UPS capacity is mentioned as 50 KVA we understand that DG set capacity will not suffice as Facility load will also added to UPS power hence kindly change the capacity to 125 KVA. Also please clarify the redundancy level of the DG set as per BOQ no redundancy is mentioned.	Tender conditions shall prevail
Vol.2	1262	STL - Sterlite Technologies Limited	Vol.02:5.2.17 Electrical work for Data Center & ICCC	Page 154 of 400	o) The SI shall use fire retardant cables of rated capacity exceeding the power requirements of existing and proposed components to be used at maximum capacity.	Kindly clarify the design margin percentage for the cable size calculation over the total component powers to cater the exceeding power requirement	Tender conditions shall prevail
Vol.2	1263	STL - Sterlite Technologies Limited	Vol.02:5.2.18.3 Electrical Distribution System	Page 156 of 400	c) Connection between UPS system and the network switch racks shall be redundant. No single point of failure shall exist in the power connectivity between network racks and UPS system.	As per our understanding , In the field single source of power supply along with single UPS system needs to be provided hence there is provision of the single power source only so it will be not applicable at field level. Kindly confirm	Tender conditions shall prevail
Vol.2	1264	STL - Sterlite Technologies Limited	Vol.02:5.2.18.4 Air Conditioning and Natural Connection	Page 156 of 400	Since ICCC are a critical area, precision air conditioning system shall be exclusively installed to maintain the required temperature.	Since Precession AC is recommended for the Equipment area hence kindly clarify that Precision AC for all the area of the ICCC (NOC room, Helpdesk room and Meeting room) or bidder needs to provide the comfort AC for the ICCC	This for temp. ICCC location and Permanent ICCC locations work is in separate tender.
Vol.2	1265	STL - Sterlite Technologies Limited	Vol.02:5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 247 of 400	13 Battery Backup 60 Mins Power backup Required. Adequate and required battery backup to achieve required uptime of field device as well as SLA of the overall solution.	Kindly remove the clause for "Adequate and required battery backup to achieve required uptime of field device as well as SLA of the overall solution." as power utility will be connected through Utility Power companies and it will be beyond in control to the bidders. Also please clarify that battery backup of 60 min will be taken on the UPS capacity or connected load	13 online UPS Full load battery back up 60 Mins Power backup Required. Adequate and required battery backup to achieve required uptime of field device as well as SLA of the overall solution.
Vol.2	1266	STL - Sterlite Technologies Limited	Vol.02:5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	Page 248 of 400	15 General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	As industry standards UPS operating temperature range will be 0 to 40 Degree C hence request you to change the operating Temp. range.	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1267	STL - Sterlite Technologies Limited	Vol.02;Enclosure requirements	Page 256 of 400	2 Thickness 1.5 mm Stainless steel + reinforcement Material if required 3 Protection Type min. IP (Ingress Protection) 65 Rated	Kindly clarify that enclosure requirements refers to the sensor elements and for the field junction bidder needs to follow to clause 5.1.3.4 Field Junction Box.	Clause to be read as Thickness 1.5 mm MS powder coated
Vol.2	1268	STL - Sterlite Technologies Limited	Vol.02;12.7 Bill of Material (BOM) Summary	Page 399 of 400	5.4.2 UPS with battery backup - 50 KVA Nos 1	Based on the BOQ there is no redundancy required at UPS. If required, Kindly update the quantities in the BOQ	Tender conditions shall prevail
Vol.2	1269	STL - Sterlite Technologies Limited	Vol.02;4.22 Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICCC	Page 49 of 400	3. SI has to ensure that redundancy is provided for all the key components to ensure that no single point of failure affects the performance of the overall system. It will be SI's responsibility to: a) Supply, install and Commission of IT Infrastructure including site preparation in DC (State Data Center) and ICCC (First temporary locations & then after shifting the all HW & SW to new permanent building)	Kindly confirm that Bidder needs to provide the equipments as per Clause 12.7 Bill of Material (BOM) as No redundancy requirements are mentioned for the UPS, DG set etc. If redundancy is required for the UPS and DG set kindly update the quantities	This power equipments required at temporary ICCC locations (where redundancy not planned) and after shifting to permanent ICCC building this same equipments will be used as a redundant equipments.
Vol.2	1270	STL - Sterlite Technologies Limited	Vol.02;4.22 Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICCC	Page 49 of 400	2. Temporary location of ICCC is identified and address is as mentioned below; BSNL Bhawan 5th Floor, Administrative Building Cotton Road, Pan Bazar, Guwahati - 781001	Kindly provide the layout of the ICCC area as identified at BSNL 5th Floor so bidder can provide the design for the ICCC.	Will be provided to winning bidder.
Vol.2	1271	STL - Sterlite Technologies Limited	Vol.02;4.13 Earthing System	Page 35 of 400	The entire applicable IT infrastructure i.e. field locations/traffic junctions or command centre shall have adequate earthing. Further, earthing should be done as per Local state national standard in relevance with IS standard. B. Permanant Locations of ICCC	Kindly provide the detailed earthing specification at Field level. Also confirm that chemical earthing with 2.4 mm Cu bonded rod will be used for the earthing.	Bidder do the earthing as per the system requirements.
Vol.2	1272	STL - Sterlite Technologies Limited	Vol.02;B. Permanant Locations of ICCC	393	A piece of land has been identified near Panjabari, Guwahati & GSCL will construct the G+4 building within 24 Months. SYSTEM INTEGRATOR shall be required to shift all installation from the temporary space to the Permanent space and resume ICCC services as per agreed timeline.	Please share the location details (Permanent) along with complete address along with floor details as well plus Lat/long details for network connectivity plan in future.	Will be provided to winning SI bidder
Vol.2	1273	STL - Sterlite Technologies Limited	Vol.02;3.1 Project Background	8 66	Data Centre & Disaster Recovery Centre shall be remains with State Data Center irrespective of ICCC locations. Redundancy of first 30 days storage will be provided by SI either in State Data Centre or Near Disaster Recovery Centre. (Near DR)	Please share the location details along with complete address along with floor details as well plus Lat/long details for network connectivity plan. Plus DC and DR at the same location or different location. If yes please share DR location details as well.	DC Address: State Data Centre (SDC) Assam Secretariat (Civil), Dispur, Guwahati-781006, Assam There is no DR planned in this RFP.
Vol.2	1274	STL - Sterlite Technologies Limited	Vol.02;4.23 Installation & Commissioning of a Sample Site – Proof of Concept (POC)	51	c) Functional test of storage system, switches, routers & other networking gears	Request to please confirm the detailed test cases which need to be demonstrated during POC. Request to please confirm the detail Bill of material which need to be demonstrated during POC. Also the time limit/duration for POC and location as well.	State Data Centre (SDC) location: BOM shall be exactly the same model as quoted or plan to quote
Vol.2	1275	STL - Sterlite Technologies Limited	Vol.02;5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	85	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Please provide the exact quantity of SFP's types in terms of SX/LX. Please include the same in SoR & price schedule.	Assam Secretariat (Civil),
Vol.2	1276	STL - Sterlite Technologies Limited	Vol.02;5.2.9 Internet Lease Line (ILL)	137	5.2.9 Internet Lease Line (ILL) A dedicated Internet Lease Line (ILL) shall be provided at ICCC locations with 1:1 contention ratio and unshared bandwidth on dual protection path of 50 Mbps speed.	Request to please share the Internet bandwidth in Mbps at ICMCC/DC/DR. Plus dual protection need to be considered. Please include in the SOR.	Dispur, Guwahati-781006, Assam
Vol.2	1277	STL - Sterlite Technologies Limited	Gen.	General	Servers and other ICT infrastructure	Please provide the technical specification of Top of the rack switch along with port density and exact requirement.	There is no DC planned in this RFP.
Vol.2	1278	STL - Sterlite Technologies Limited	Vol.02;12.6 Tentative POP Site Locations	393	12.6 Tentative POP Site Locations	Please share the Lat/Long for these location.	Will be provided to winning SI bidder

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Vol.2	1279	STL - Sterlite Technologies Limited	Vol.02;D. BUS STOPS	385	D. BUS STOPS	Please share the Lat/Long for these location.	Will be provided to winning SI bidder
Vol.2	1280	STL - Sterlite Technologies Limited	Vol.02;12.3 Locations for SVD	392	12.3 Locations for SVD	Please share the Lat/Long for these location.	Will be provided to winning SI bidder
Vol.2	1281	STL - Sterlite Technologies Limited	Vol.02;12.2 Locations for Traffic Junctions & ITMS	390	12.2 Locations for Traffic Junctions & ITMS	Please share the Lat/Long for these location.	Will be provided to winning SI bidder
Vol.2	1282	STL - Sterlite Technologies Limited	Vol.02;5.5.3.1 Core Router	296	Should have a minimum capacity of 2Tbps	Please specify the same whether 2Tbps is FD/HD.	Tender conditions shall prevail
Vol.2	1283	STL - Sterlite Technologies Limited	Vol.02;5.5.3.1 Core Router	296	Each Router shall have below routed ports - i) 32xSFP+ ports, populated with - 16x10Gbps, 10Km SM Transceivers - 4x10Gbps 40Km SM transceivers - remaining 12xSFP+ should support both 1Gbps and 10Gbps transceivers for future scalability. ii) 12x40Gbps QSFP ports, populated with - 8x40Gbps, 10km SM Transceivers to connect to PoPs - 4x40Gbps Cables/Transceivers (Multimode) required to connect Data Center Appliances as per design requirement..	Related to future requirement (12xSFP+), please specify how many are 1G and 10G SFP's and of why types (SX/LX).	Each Router shall have below routed ports - i) 32xSFP+ ports, populated with - 24x10Gbps, 10Km SM Transceivers - remaining 8xSFP+ should support both 1Gbps and 10Gbps transceivers for future scalability. ii) 8x40Gbps QSFP ports, populated with - 4x40Gbps Cables/Transceivers (Multimode) required to connect Data Center Appliances as per design requirement.. - remaining 4x40Gbps ready ports for future scalability
Vol.2	1284	STL - Sterlite Technologies Limited	Vol.02;NA	General	Data Centre - Interconnecting Switch required for connecting	Please share the specification and qty for interconnecting devices like DDOS, SSL Inspector, LLB and NGFW at the Perimeter side	Tender conditions shall prevail
Vol.2	1285	STL - Sterlite Technologies Limited	ICT Equipment in ICC	398	ICCC - for connecting for below IP Phones KVM Switches - 4 Port USB/HDMI Operator Workstations with Triple Monitor (City Control Room) Multi-Function Laser Printer (City Control Room) Office Desktop	Please share the specification and qty for interconnecting workstations and IP phones at ICC. Also please include in the SOR.	Operator Workstation =15, IP Phone=15, KVM Switch=10 Nos
Vol.2	1286	STL - Sterlite Technologies Limited	Vol.02;NA	General	TOR Switch/ Server Switch	Please share the specification and qty for the TOR Switch and Server switch.	Please refer the Technical Specification of Data Center Spine & Leaf Switching Solution
Vol.2	1287	STL - Sterlite Technologies Limited	Vol.02;Project Objectives	14	6. Phase wise Integration of the ICT systems with Integrated Command & Control Center (ICCC): a. Integrated Traffic Management System (ITMS) b. City Surveillance System - CCTV c. ANPR & RLVD System d. SVD Camera System e. Geographical Information System (GIS) f. Any other sensors/systems g. Grievance Management	Please clarify below points: 1. Please share the network design and architecture of these system. 2. Also the provisioned BW at these locations. 3. Is the above BW is the scope of SI or just integration. Please confirm. 4. Is sufficient no of ports are available on core router/switches at these locations. Please confirm or additional hardware need to be included. If yes please mention in the SOR.	Tender conditions shall prevail
Vol.2	1288	STL - Sterlite Technologies Limited	Vol.02;4.6.3.4.10 City Surveillance System – (CCTV Camera), Point no 8.d.	Page 30 of 400	d. Ensure that the pole is well placed for vibration resistance adhering to the road safety norms.	Kindly provide specifications for vibration proof Pole installation. Can the pole installation to be done confirming to IS codes? Kindly confirm	Bidder to choose the best solutions for the this and the pole installation to be done confirming to IS codes.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1289	STL - Sterlite Technologies Limited	Vol.02;4.6.3 4.10 City Surveillance System – (CCTV Camera), Point no 8.e.	Page 30 of 400	Collusion preventive barriers around the junction box & pole foundation in case it's installed in collision pre place.	Kindly provide area for demarkation and maetial specifications. Can SI consider the 25X3 mm MS L channel for corner and one strip in between with perforated GI mesh along with paint? Kindly confirm	Tender conditions shall prevail
Vol.2	1290	STL - Sterlite Technologies Limited	Vol.02;4.12 Lightning-Proof Measures & 4.13 Earthing System	Page 35 of 400	The SI shall comply with lightning-protection and anti-interference measures for system structure, equipment type selection, equipment earthing, power, signal cables laying. The SI shall describe the planned lightning-protection and anti-interference measures in the As-Is report. & 4.13 Earthing System 1. SI shall comply with the technical specifications considering lightning-proof and anti-interference measures for system structure, equipment type selection, equipment Guwahati Smart City Limited RFP System Integrator Vol.02 Page 36 of 400 earthing, power and signal cable laying. SI shall describe the planned lightning-proof and anti-interference measures in their technical bid.	1. The anti interference is not possible without EMI cage which is very costly hence requesting to allow SI to place lightning arrangement as per standards with separate earthing. Kindly confirm 2. While installation, the location to the selection in such a manner that interference issue should not present near the cabinet box. Kindly confirm	1. SI shall comply with the technical specifications considering lightning-proof and ant interference measures for system structure, equipment type selection, equipment earthing, power and signal cable laying. SI shall describe the planned lightning-proof and anti-interference measures in their technical bid. 1. SI to place lightening arrangement as per standards with separate earthing. 2. While installation, the location to the selection in such a manner that interference issue should not present near the cabinet box.
Vol.2	1291	STL - Sterlite Technologies Limited	Vol.02;4.13 Earthing System	Page 35 of 400	All electrical components are to be earthen by connecting two earth tapes from the frame of the component ring and will be connected via several earth electrodes. The cable arm will be earthen through the cable glands.	Kindly clarify the quantities at field level. As per our understanding we are considering one no. earthpit for the ICT equipment and UPS system and lightning arrestor will be grounded through pole foundation	Tender conditions shall prevail
Vol.2	1292	STL - Sterlite Technologies Limited	Vol.02;4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	Page 36 of 400	4. The size of outdoor cabinet / Junction Boxes shall be sufficient to house all the system components, which may be installed at the intersection or nearby. Boxes shall be dustproof and impermeable to splash-water. They shall be suitable for the Guwahati's environmental conditions. They shall have separate lockable doors for: i. Power cabinet: This cabinet shall house the electricity meter, online UPS system and the redundant power supply system ii. Control cabinet: This cabinet shall house the controllers for all the field components at that location e.g. PTZ, Fixed cameras etc. & 7. The Junction Box for UPS with Battery bank needs to be considered separately.	1. Redundant power supply system means ICT equipment will have two power module which will get power supply from one PDUs (UPS's output) 2. Electricity meter , ICT equipment , UPS & battery bank to be provided in single junction box with compartalization. Kindly confirm the above	Deleted the clause no. 4.14 Sr, No. 7. The Junction Box for UPS with Battery bank needs to be considered separately. Bidder can Propose the Single Junction box that can be sufficient to house all power equipments, battery and control/networking unit in a single box.
Vol.2	1293	STL - Sterlite Technologies Limited	Vol.02;4.15 Power & UPS - for Field Locations	Page 39 of 400	5. SI shall ensure that the UPS is suitably protected against storms, power surges and lightning.	As the UPS will be placed inside the cabinet henc UPS protection sgaunst storm is not applicable. Power surge protection will be considered. Lightining protection will be applicable along with pole where cabinets to be placed. Kindly confirm	Tender conditions shall prevail
Vol.2	1294	STL - Sterlite Technologies Limited	Vol.02;5.1.3.8 Online UPS for Field Locations Sr no 15. General Operating Temperature & Humidity	Page 88 of 400	Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	The UPS will derate drastically after 40 Dec C while operation and as per Guwahat Weather condition maximum operating temp can be taken 0 to 50 Deg C which will be cost effective rather than - 10 Deg C to 70 Deg C As the cabinet is equipped with fan. Kindly confirm the UPS operating temp will be 50 Deg C.	Temp.: (-)10 Degree C to (+) 55 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions
Vol.2	1295	STL - Sterlite Technologies Limited	Vol.02;Vol-2, 5.2.11.1 IP Phones	140	Display:2 line or more, Colour display for viewing features like messages, directory, Video	Please clarify if this requirment is for Video Phone or Simple IP Phone, since as per the solution Video is not required.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1296	STL - Sterlite Technologies Limited	Vol.02;Vol-2, 5.2.11.2.6 IP PABX and Communication System with Contact Center Solution.	141	IVRS should support various means of Alarm indications in case of system failures, e.g. Functional error, missing voice message prompt, etc., and shall generate error Logs. SI has to identify other required services from IVR solution.	We understand that Proposed solution can be integrate with existing NMS/EMS system over SNMPV1 to capture detail logs of system failure which can be presented over GUI as per requirement. Please validate if the understanding is correct	Yes, Proposed solution can be integrate with existing NMS/EMS system over SNMPV1 to capture detail logs of system failure which can be presented over GUI as per requirement.
Vol.2	1297	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.7 IP PABX and Communication System with Contact Center Solution.	141	IVRS shall be able to get information /text/data from databases, convert to voice, and speaks it back to the caller in relevant/desired language, including English and Hindi both	we understand that we need to fetch data from database and play voice prompt based on received data. That voice prompt would be pre-recorded in the system	Yes, we need to fetch data from database and play voice prompt based on received data. That voice prompt would be pre-recorded in the system
Vol.2	1298	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.8.4 IP PABX and Communication System with Contact Center Solution.	141	support Voice XML for ASR, TTS, and DTMF call flows	To support ASR/TTS/DTMF call flow, do not restrict with Voice XML. There are other industry standard protocol like SIP by which this use case can be achieved. Kindly amend with Voice XML/SIP.	Support Voice XML/SIP for ASR, TTS, and DTMF call flows
Vol.2	1299	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.8.5 IP PABX and Communication System with Contact Center Solution.	141	be able to Read data from HTTP and XML Pages be able to run outbound campaigns	we understand that Proposed solution is required to integrated with any third party database via API to provide details to run outbound campaigns. Kindly validate if the understanding is correct	Yes, Proposed solution is required to integrated with any third party database via API to provide details to run outbound campaigns
Vol.2	1300	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.20 IP PABX and Communication System with Contact Center Solution.	143	Multiline support	we understand that proposed solution is required to support Multiple PRI/E1/ SIP line. Please provide clarity. Or let us know if this would be relevant for IP Phones specifically	Proposed solution is required to support Multiple PRI/E1/ SIP line.
Vol.2	1301	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.20 IP PABX and Communication System with Contact Center Solution.	143	Multiline support	How many maximum no of concurrent calls are expected at moment in peak hours, this will help designing the solution in optimized way and also will help in selection of no. of PRI required or SIP connection bandwidth required.	SI bidder to assess the maximum calls.
Vol.2	1302	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.20 IP PABX and Communication System with Contact Center Solution.	143	Speed dial in IP phones	Request you to add this feature under IP phone specification rather in this sections.	Tender conditions shall prevail
Vol.2	1303	STL - Sterlite Technologies Limited	Vol-2 4.5 Finalization of Detailed Technical Architecture	21	SMS Gateway Integration- SI shall carry out SMS Gateway Integration with the Smart City System and develop necessary applications to send mass SMS to groups/individuals. Any external/third party SMS gateway can be used, but this needs to be specified in the Technical Bid, and approved during Bid evaluation.	If SMS/Email server/gateways are in the scope of SI, kindly add the line item in Bill of Material (BOM) Summary.	There is a line item in BOQ for any other missing item that bidder can quote.
Vol.2	1304	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.20 IP PABX and Communication System with Contact Center Solution.	143	System should be able to integrate with email / SMS gateway so that appropriate messages can be sent to the relevant stakeholders after the interaction and any updates thereon.	If SMS/Email server/gateways are in the scope of SI, kindly add the line item in Bill of Material (BOM) Summary.	Yes this is under SI scope.

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Vol.2	1305	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2.24.4 IP PABX and Communication System with Contact Center Solution.	145	Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures.	To support customized report please do not restrict it to Crystal Reports Developer's Toolkit and SQL stored procedures. Kindly allow customised reports as per requirement, independent of any platform. Moreover there would be overhead of License of Crystal reports developers toolkit.	Tender conditions shall prevail
Vol.2	1306	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2. IP PABX and Communication System with Contact Center Solution.		General Query.	We Suggest that Proposed solution should be implemented in 1 : 1 High Availability to support seamless transition of work in case of main server failure. Kindly Provide Clarity	Tender conditions shall prevail
Vol.2	1307	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2. IP PABX and Communication System with Contact Center Solution.		General Query.	We assume that Proposed solution is required in DC-DR setup. The required VPN/MPLS connectivity between DC-DR will be Provided by GSCL	Proposed solution is required for DC (SDC) only and No DR planned in this RFP. But Connectivity between SDC to ICCS is under SI bidder.
Vol.2	1308	STL - Sterlite Technologies Limited	Vol-2, 5.2.11.2. IP PABX and Communication System with Contact Center Solution.		General Query.	SI has an understanding that the connectivity for either PRI or SIP connection of contact centre solution will be provided by the purchaser. If not, kindly add the line time in Bill of Material summary.	This is under SI bidder and you share your offer describing additional item in any other Hardware or Software required to meet the RFP requirements line.
Vol.2	1309	STL - Sterlite Technologies Limited	Vol-2, 12.7 Bill of Material (BOM) Summary, 5.2.7	398	PRI Modem	Kindly provide the specifications for the PRI Modem.	This is open standard or provided by ISP.
Vol.2	1310	STL - Sterlite Technologies Limited	Vol.02:5.2.10 Help Desk	137	SI shall be required to setup a centralized helpdesk at two locations i.e. one at Command Control Center specifically for City Surveillance, and one at City Operation Center for rest of the solutions.	As per our understanding the segregation of the centralized helpdesk solution will be purely based on the operational setup. Kindly confirm	Yes, segregation of the centralized helpdesk solution will be purely based on the operational setup.
Vol.2	1311	STL - Sterlite Technologies Limited	Vol.02:5.3.4 NMS/EMS	173	36. Should have self-certification capabilities so that it can easily add support for new traps and automatically generate alarms	Please amend the clause as below: "Should be capable to easily add support for new traps and generate alarms with required customization"	Should be capable to add support for new traps and automatically generate alarms.
Vol.2	1312	STL - Sterlite Technologies Limited	Vol.02:5.3.4 NMS/EMS	176	79. Alerts should be shown on the Event Management map when thresholds are exceeded and should subsequently be able to inform Network Operations Center (NOC) and notify concerned authority using different methods such as pagers, emails, etc.	Please amend the clause as below: "Alerts should be shown on the Event Management map when thresholds are exceeded and should subsequently be able to inform Network Operations Center (NOC) and notify concerned authority using different methods such as emails, sms etc."	79. Alerts should be shown on the Event Management map/dashboard when thresholds are exceeded and should subsequently be able to inform Network Operations Center (NOC) and notify concerned authority using different methods such as SMS, emails, etc.
Vol.2	1313	STL - Sterlite Technologies Limited	Vol.02:5.3.4 NMS/EMS	171	7. Should provide direct connectivity to one, many, or all devices for configuration updates.	Please amend the clause with the following phrase: This clause should be limited to Network devices like routers, switches, etc.	Tender conditions shall prevail
Vol.2	1314	STL - Sterlite Technologies Limited	Vol.02:5.3.4 NMS/EMS	172	17. Should provide accessibility to database of the EMS via the Application GUI	Please amend the clause with the following phrase: Should provide accessibility to database of the EMS via the Application web/desktop tools.	Tender conditions shall prevail
Vol.2	1315	STL - Sterlite Technologies Limited	Vol.02:5.3.4 NMS/EMS	176	77. The Network Management function should also collect traffic statistics on client/server sessions, which cross the LAN on which it is running.	Request you to please share more details on this clause. Please conform if this clause refers to Session Limit of LAN host and related traffic statistics ?	Tender conditions shall prevail
Vol.2	1316	STL - Sterlite Technologies Limited	5.3.4 NMS/EMS	178	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	Request you to add the patch & configuration management feature under separate section/clause as the Patch management for OS, Database and application software needs separate tool and is not part of NMS/EMS.	Tender conditions shall prevail

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Vol.2	1317	STL - Sterlite Technologies Limited	Vol.02;5.3.4 NMS/EMS	179	120. It should be able to provide detail asset information on hardware and software inventory through seamless integration with asset management software.	This clause requires separate IT infra monitoring application that handles DC hardware and Software inventory and is different from NMS/EMS. Request you to please check and add specifications with required line items in BoQ.	Tender conditions shall prevail
Vol.2	1318	STL - Sterlite Technologies Limited	Vol.02;5.3.4 NMS/EMS	179	121. Each incident could be able to associate multiple activity logs entries manually or automatically events / incidents from other security tools or EMS / NMS.	Request you to please share more details on this clause. The clause retirement is does not clear the specific requirement.	Clause deleted
Vol.2	1319	STL - Sterlite Technologies Limited	Vol.02;5.3.4 NMS/EMS	171	General - NMS/EMS: Volumetrics for OSS Components	Kindly share the volumetrics for OSS solution - Total number of users for NMS - Total no. of users for Centralized Helpdesk System - Concurrent no. of users for Centralized Helpdesk System - Total number of users & operators for Ticketing System - Total number of operators for incident operator	Approx. - Total number of users for NMS - 40 Nos - Total no. of users for Centralized Helpdesk System - 20 Nos - Concurrent no. of users for Centralized Helpdesk System - 20 Nos - Total number of users & operators for Ticketing System - 20 Nos - Total number of operators for incident operator - 20 Nos
Vol.2	1320	STL - Sterlite Technologies Limited	4.5 Finalization of Detailed Technical Architecture	22	• The Infrastructure management and Monitoring System shall be used by SI to monitor the infrastructure (Both IT and Non-IT) hosted at the Data center and DR site.	As per our understanding DR is not required kindly confirm. If DR is required kindly share the location of the DR and scope of work for the DR	There is no disaster Recovery Centre planned in this RFP.
Vol.2	1321	STL - Sterlite Technologies Limited	Vol.02;5.1.2.1	65	It is estimated that not more than 5% of the cameras would be required to be viewed at higher FPS at a given point of time).	We will need specification of higher FPS and for what time to calculate BW requirement	This clause for CCTV Surveillance camera (Not for RLVD and ANPR) only. Higher FPS would be 50 ~ 60 FPS.
Vol.2	1322	STL - Sterlite Technologies Limited	Vol.02;5.1.4.14	105	All cameras must be capable to run two analytics in addition to motion detection and camera tampering as required at any given time.	Please clarify if our understanding is correct, that for VA licenses we will consider(number of cameras X 2)	Clause to be read as Bidder to design a solution VMS/VA/ Edge Camera Minimum 8 different types of analytics shall run simultaneously for each camera
Vol.2	1323	STL - Sterlite Technologies Limited	Vol.02;4.18	40	If the map/layer/dataset is not already available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc. as the part of this project	As mentioned, there are some GIS layers that are available with GSCL and some has to be built. Please specify layers available and what needs to be built for clear scoping.	Tender conditions prevail refer to response at SL no 577
Vol.2	1324	STL - Sterlite Technologies Limited	Vol.02;5.3.5	398	Supply of ICCV Application Software Integration with Operator Console, Integration of Video Management Software all CCTV Camera with 4 Analytics (min), Integration of ITMS (ATCS, ANPR, RLVD, SVDS, e-Challan), SMS Gateway Integration, Email Gateway Integration, Integration with EMS / NMS, Integration with Video Wall at Command Centre, Integration of City GIS, and other services related to this RFP.	Please specify number of analytics required to calculate licenses	Analytics required at all CCTV camera QTY.
Vol.2	1325	STL - Sterlite Technologies Limited	Vol.02;5.2.2.1	115	Platform must provide an ability for IOT devices to upload the data in Real-time into the platform	Please specify number and type of IoT devices we are looking for integration and communication.	Platform should enable integration with IT, OT, IoT, Video Analytics, VMS devices and other Smart City Applications to be deployed in future.
Vol.2	1326	STL - Sterlite Technologies Limited	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	3. Wrong Lane Driving / Stoppage with ANPR (WLD)	Exact Quantities are not mentioned in Bill of Materiel for the same. Please include add it in SOR BOQ and provide number of lanes for the same.	Bidder have to perform preliminary survey to certain the lanes so that complete stretch is covered

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Vol.2	1327	STL - Sterlite Technologies Limited	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	e) The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases.	Only one type of database is used among these databases with TVDS systems. Hence we request you to kindly amend the clause as "e) The system should support Microsoft SQL/MySQL, PostgreSQL/Oracle databases"	Point d and f as per bidder solution e) The system should support Microsoft SQL/MySQL/ PostgreSQL/Oracle databases.
Vol.2	1328	STL - Sterlite Technologies Limited	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	g) The ITMS Software should be NABL accredited lab for accuracy	Certificate issued by NABL accredited lab is issued for accuracy of Speed Violation Detection system and not for whole ITMS software. Hence we request you to kindly remove this clause .	NABL Clause stands deleted. Please read the clause as In ITMS, SVD system should have proper test report and certificate (Legal Decree/type approval/homologation). The test reports/certificates should be provided by domestic/international labs who have mandate to provide the same for speed enforcement system. The test reports should be in compliance to OIMLR91, D11 and WELMEC 7.2 norms.
Vol.2	1329	STL - Sterlite Technologies Limited	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230 of 400	-	Is Speed is required to be captured at junctions?	Not required
Vol.2	1330	STL - Sterlite Technologies Limited	Vol 2 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.2 Functional/General Requirements Red Light Violation Detection (RLVD) System	231 of 400	c) The system shall have in-built tool to facilitate the user to compose detail evidence by stitching video clips from any IP camera in the junction (including but not limited to the red-light violation detection camera, evidence camera), and any other surveillance cameras in the vicinity of the spot of incidence. The entire evidence should be watermarked and encrypted to stand the court of law.	Stitching of video clips is considered as tempering of the evidence video clip, which will not be acceptable in the court of law as an acceptable evidence for violation. Hence we request you to kindly amend the clause as : "c) The system shall have in-built tool to facilitate the user to compose detail evidence by RLVD Camera in the junction. The entire evidence should be watermarked and encrypted to stand the court of law."	The system shall have in-built tool to facilitate the user to compose detail evidence by RLVD Camera in the junction. The entire evidence should be watermarked and encrypted to stand the court of law
Vol.2	1331	STL - Sterlite Technologies Limited	Vol 2 5.4.2.4 Functional Requirements of Automatic Number Plate Recognition (ANPR) System	241 of 400	Event Type (e.g. ANPR, Red Light Violation, Speed Violation, etc.)	Speed Violation is a part of Speed Violation Detection System. Hence we request you to kindly remove "Speed Violation" from here.	Tender conditions shall prevail
Vol.2	1332	STL - Sterlite Technologies Limited	Vol 2 5.4.2.6 ANPR HW Requirements	246 of 400	28. Flexible angle adjustment : 30°, 45°, 60°, 90°	ANPR camera has a fixed field of view (i.e. 3.5 mtr in width) and its angle is also kept fixed to capture the number plate with good accuracy. Flexible angle adjustment is useful with surveillance cameras and not for ANPR application. Hence, we request you to kindly amend the clause as : "28. Flexible angle adjustment : as per design "	Flexible angle adjustment : as per OEM requirement

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Vol.2	1333	STL - Sterlite Technologies Limited	Vol 2 5.4.2.1 IR – Illuminator (In case of Separate IR)	246 of 400	3. Beam Angles : 10°, 20°, 30°, 60°, 80°, and 95°	ANPR camera has a fixed field of view (i.e. 3.5 mtr in width) and each lane/ANPR Camera has dedicated IR Illuminator to capture the number plates at night. Since the ANPR camera angle is fixed , Beam angle of IR is also kept fixed to capture the number plate with good accuracy. Multiple Beam angle is useful with surveillance cameras and not for ANPR application. Hence, we request you to kindly make it optional and amend the clause as : "3. Beam Angles : as per design "	Beam Angles : as per OEM requirement
Vol.2	1334	STL - Sterlite Technologies Limited	Vol 2 5.4.2.1 IR – Illuminator (In case of Separate IR)	247 of 400	8. Standards: UL, CE, FCC, EN	Since, this is an OEM specific requirement and preferring single OEM, hence, we request you to kindly amend this clause as "8. Standards: UL/CE/FCC/EN"	8. Standards: UL/CE/FCC/EN along with Eye Safety Certificate
Vol.2	1335	STL - Sterlite Technologies Limited	Vol 2 5.4.2.1 IR – Illuminator (In case of Separate IR)	247 of 400	9. Approved Makes: The Camera and IR Illuminator shall be of the same make	This clause is OEM specific kindly amend as " Approved Makes: The Camera and IR Illuminator shall be of the same/different make"	Clause to read as ANPR, RLVD with illuminator and Surveillance cameras shall be of same OEM
Vol.2	1336	STL - Sterlite Technologies Limited	Vol 2 5.4.3 Speed Violation Detection System (SVD) 5.4.3.1 Speed Violation Detection System (SVD)- General Requirements 5.4.3.2 Speed Violation Detection System Requirements:	248-257 of 400	Technology : 4D Object Tracking (Range, Angle, Speed, Time) with UHD Resolution, independent discrimination multiple targets at same speed and same range	<p>->Tender has been designed on 4D RADAR technology which is available with only One single foreign OEM.</p> <p>Proven technology based on Video based system has been barred here, which is also much cost effective as compared to 4D RADAR technology.</p> <p>There are more that 25 Smart Cities/ ITMS projects successfully deployed on Video based system, which has been kept out of this RFP</p> <p>There are hardly any successful 4D HD RADAR based ITMS system implementation in India and wherever they have been deployed, are facing legal hurdles due to sanctity of their challaning</p> <p>The RFP is also against "Make in India" regulations and Ministry of Commerce & Industry circular no. D.O. No. P-45021/12/2017-Public Procurement (BE-II) dated December 18, 2017 which states that "no specifications should be mentioned in public tenders which is barring Indian OEM to participate". Irrelevant specifications such as "Vehicle Detection at a speed of 300 Kmph is mentioned, which is not at all possible in the Indian Roads. In fact, there would hardly be any vehicle in Moradabad, whci can run at such speeds.</p> <p>Also, the proposed RADAR based system has its own challenges and not successful in city scenario. Same has been highlighted in OIML guidelines. Above point states that that radar should be calibrated by using a video based system, which is not being installed here.</p> <p>Hence we hereby request you to kindly revisit the specifications and allow Video based Speed violation Detection technology as well for detection of Speed. For your convenience, Speed Violation Detection system with Video based technology specifications are attached herewith.</p>	Tender conditions shall prevail
Vol.1	1337	STL - Sterlite Technologies Limited	Vol 1 : Clause 1.3(11)	7 of 104	INR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) online deposit through e Procurement portal	Request you to kindly allow submission of EMD in form of Bank Guarantee also	EMD amount shall be Rs. 2,15,00,000/- Bidder to Refer Point 1.01 of Amendment 01. Regarding mode of payment of EMD, Bid condition shall prevail.
Vol.1	1338	STL - Sterlite Technologies Limited	Vol 1 : Clause 2.1(f)	13 of 104	Bidder shall submit the Line of Credit for the amount of INR 21,59,00,000 (Twenty-One Crore , Fifty-Nine Lakhs Only) as per the format given in Annexure 9.	Request you to kindly allow submission of a Bankers Solvency Certificate	EMD amount shall be Rs. 2,15,00,000/- Bidder to Refer Point 1.01 of Amendment 01. Regarding mode of payment of EMD, Bid condition shall prevail.
Vol.1	1339	STL - Sterlite Technologies Limited	Vol 1 : Clause 2.8 Vol 1 : Clause 3.4.1(b) Vol 1 : Clause 3.4.1(c)	16 of 104 31 of 104	Earnest Deposit Money	Request you to kindly include the following clause: Return of EMD will be as follows: a. For bidders who do not qualify for the Technical Evaluation Stage / Financial Evaluation Stage - Immediately upon declaration of their disqualification by the Employer; b. For bidders who for the Financial Evaluation Stage - Immediately upon declaration of successful bidder by the Employer;	Refer to AddendumVI

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Vol.1	1340	STL - Sterlite Technologies Limited	Vol 1 : Clause 2.11.3	21 of 104	The Bidder must submit the Commercial Bid as per format in Volume IV. Bidder shall submit the Commercial Bid online through E-procurement portal website only	Volume IV not available	Bidder is requested to recheck as all the volumes are available in the portal.
Vol.1	1341	STL - Sterlite Technologies Limited	Vol 1 : Clause 2.28	27 of 104	Bidders are encouraged to include Micro, Small and Medium Enterprises (MSMEs) in the delivery of the project. Bidders should earmark a minimum of 20% of the total contract for procuring goods and services from MSEs. Activities that can be sub-contracted to MSME/MSE partners are restricted to those defined under Sub-Contracting Clause 2.27 above.	Request you to kindly delete this clause on following grounds: a. As per the prevailing MSME enactment, payment to MSME shall be made within a stipulated time period and the same may lead to cashflow mismatch for the successful bidder b. MSME categorization is based on the turnover and there stands a possibility that a sub-contractor may not stay an MSME for the entire period of the Contract	Tender conditions shall prevail.
Vol.1	1342	STL - Sterlite Technologies Limited	Vol 1 : Clause 3.4.3 (f)	32 of 104	If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer' estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analyses for any or all items of the price Bid, to demonstrate the internal consistency of those prices with the implementation methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.	Since the bidder is to submit a PBG of 10% of the contract value, request you to kindly delete this clause.	Tender conditions shall prevail.
Vol.1	1343	STL - Sterlite Technologies Limited	Vol 1 : Clause 4.3	49 of 104	Performance Bank Guarantee	Request you to kindly allow the following: a. CAPEX PBG @ 10% of CAPEX contract value to be submitted within fifteen (15) working days from the date of issuance of LOI, with a validity of Go-Live + 60 days b. OPEX PBG @ 10% of OPEX contract value to be submitted within fifteen (15) working days from Go-Live, with a validity of 60 months	Responses related to PBG provided above may be referred., refer Addendum-01
Vol.1	1344	STL - Sterlite Technologies Limited	Vol 1 : Clause 6.1 Table 1 (Sl. No.2)	57 of 104	Certificate from the Statutory Auditor on turnover details from the "specific business areas" over the last three (3) financial years	Request you to kindly allow certificate from a Chartered Accountant as mentioned in Clause 3.5 (Sl. No. 2)	Agreed
Vol.1	1345	STL - Sterlite Technologies Limited	Vol 1 : Clause 6.3.C	63 of 104	Self certified copy of Certificate from statutory auditor for Positive net worth as per audited consolidated financial statements for last three financial years shall be submitted	Request you to kindly allow certificate from a Chartered Accountant as mentioned in Clause 3.5 (Sl. No.4) & Clause 6.1 (Sl. No.4)	Agreed
Vol.2	1346	STL - Sterlite Technologies Limited	Vol 2 : Clause 4.6.3	23 of 400	The SI shall directly interact with APDCL for provision of mains power supply at all locations for ICCC field systems. The SI shall be responsible to pay the electricity bills including connection charge, meter charge, recurring charges etc. to the APDCL directly. SI shall have to submit the challan of bill submission to GSCL. GSCL will reimburse the amount deposited by the SI after verification in next billing cycle.	We understand that all provisioning and recurring charges towards electricity for ICCC and DR location will be borne by GSCL. Kindly confirm	Yes, all provisioning and recurring charges towards electricity for ICCC and DC location will be borne and paid by GSCL directly.
Vol.2	1347	STL - Sterlite Technologies Limited	Vol 2 : Clause 5.2.16	150 of 400	Diesel Generator Set (DG) 75 KVA - ICCC	We understand that all provisioning and recurring charges towards DG set for ICCC and DR location will be borne by GSCL. Kindly confirm	Only recurring charges toward DG set at ICCC location will be borne by GSCL. SDC doesn't required any power backup equipment.
Vol.2	1348	STL - Sterlite Technologies Limited	Vol 2 : Clause 6.1.9.2	333 of 400	Requirement of ICCC expert during O&M period	As per Clause 3.6.3 (Volume 1), Integrated Command and Control Centre (ICCC) Expert is required of "Need basis" during O&M period. Request to kindly align both the clauses	Please Read Clause of Vol.01 -3.6.3 - Integrated Command and Control Centre (ICCC) Expert is required at site 100% (8x5) working model (8 Hours a day and 5 days in a week)
Vol.2	1349	STL - Sterlite Technologies Limited	7.0 ANNEXURE II: PAYMENT SCHEDULE AND MILESTONES	341 of 400	Go-Live Payment Milestone	We request that the last 10% payment against Go-Live may be released upon commissioning against submission of a PBG of equivalent amount	Tender conditions shall prevail
Vol.2	1350	STL - Sterlite Technologies Limited	7.0 ANNEXURE II: PAYMENT SCHEDULE AND MILESTONES	341 of 400	Payment of Taxes	We understand that taxes on the invoice will be paid along the payment of the advance / invoice. Kindly confirm.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1351	STL - Sterlite Technologies Limited	7.0 ANNEXURE II: PAYMENT SCHEDULE AND MILESTONES	341 of 400	GSCL shall issue a "Request Order" in writing, indicating the number of units of Hardware and Software to be supplied along with the location (Project Site). Upon getting the Request Order, the SI shall promptly and as soon as possible within the lead time specified in the request order, supply, install and implement specified numbers of hardware and software at stated project site and commissioned the same. GSCL shall specify the Lead Time in Request Order	We understand that the payment against Supply, Installation & Commissioning will be done on pro-rata basis based on the number of units supplied, installed or commissioned, as the case may be. Kindly confirm	Tender conditions shall prevail
Vol.3	1352	STL - Sterlite Technologies Limited	Vol 3 : Clause 28	24 of 50	Liquidated Damages If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter.	Request you to kindly amend the clause as below: If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of undelivered contract value for a milestone/quarter.	Tender conditions shall prevail
Vol.3	1353	STL - Sterlite Technologies Limited	Vol 3 : Clause 17	17 of 50	SI shall bear all taxes and duties etc. levied or imposed on SI under the Contract including but not limited to, Customs duty, Excise duty, GST, , any other taxes and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire contract period, i.e., on account of material supplied and services rendered, and payments received by him from the Authority under the Contract. It shall be the responsibility of SI to submit to the concerned Indian authorities the returns and all other connected documents required for this purpose. SI shall also provide the Authority such information, as it may be required in regard to SI's details of payment made by the Authority under the Contract for proper assessment of taxes and duties. The amount of tax withheld by the Authority shall at all times be in accordance with Indian Tax Law and the Authority shall promptly furnish to SI original certificates for tax deduction at source and paid to the Tax Authorities	Request you to kindly include the below mentioned clause after the existing clause: For the purpose of the Contract, it is agreed that the Contract Price is based on the taxes, duties, levies and charges prevailing on seven (7) days prior to the deadline set for price bid submission in the country. If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of Contract, which was or will be assessed on the Contractor in connection with performance of the Contract, an equitable adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction therefrom, as the case may be, in accordance with Change in Laws and Regulations hereof.	Refer SI 3.05 of Addendum 1
Vol.3	1354	STL - Sterlite Technologies Limited	Vol 3 : Clause 43.4	32 of 50	Maximum Penalty applicable for any quarter shall not exceed 30% of the 'applicable fees' for the respective quarter.	Request you to kindly consider that 30% is a substantial amount and major of the O&M payment will be fixed in the nature of manpower. Hence 30% will directly impact the profitability and cashflow of the project for the bidder. Hence request you to kindly consider the below: Maximum Penalty applicable for any quarter shall not exceed 10% of the 'applicable fees' for the respective quarter.	Refer SI 3.16 of Addendum-1
Vol.3	1355	STL - Sterlite Technologies Limited	Vol 3 : Clause 28.2	24 of 50	The deduction shall not in any case exceed 10 % of the contract value.	Request you to kindly amend the existing clause as below: The deduction shall not in any case exceed 10 % of the CAPEX contract value.	Tender conditions shall prevail
Vol.2	1356	STL - Sterlite Technologies Limited	Vol 2 : Clause 7	13	Go-Live Payment Milestone	We request that the 10% payment against Go-Live may be released against submission of a PBG of equivalent amount, in case the Go-Live is not achieved in time, due to reasons not attributable to SI. Please confirm	Tender conditions shall prevail
Vol.3	1357	STL - Sterlite Technologies Limited	Vol 3: 43. Penalties	31	43.5 The payment to the agency shall be on Quarterly basis however the penalty shall be calculated on monthly basis as per the SLAs stated in the RFP.	In line with the industry standards, we request that the clause is amended as follows: "The payment to the agency shall be on Quarterly basis however and the penalty shall be calculated on monthly quarterly basis as per the SLAs stated in the RFP."	Tender conditions shall prevail
Vol.3	1358	STL - Sterlite Technologies Limited	Vol 3: 43. Penalties	50-51	43.6.6.1 Network Availability between Field elements and CCC	Since the bandwidth shall be provisioned by the TSP/ISP through a tri-partite agreement, request that the penalties on breach of SLA pertaining to bandwidth issues are directly embedded in that tri-partite agreement since the percentage of penalty on SI's contract value results in higher absolute value than the absolute value of cost of bandwidth provided by TSP/ISP thereby resulting in cost loading. Please confirm	Bidder's understanding is correct.
Vol.3	1359	STL - Sterlite Technologies Limited			General	In order to complete the project in the envisaged timeline of 12 months, it is requested that a provision for Deemed approval/Acceptance is introduced so that in case of delay beyond 15 days a) from the date of submission of documents for approval and/or b) notification to conduct Acceptance Testing, the system or part thereof is deemed to be accepted and eligible for invoicing.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1360	STL - Sterlite Technologies Limited	Vol 2: 6.1.10- Change Management & Control	335-336	The SI agrees that the requirements given in the Bidding Documents are minimum requirements and are only indicative. The SI would need to fetch out the details at the time of preparing the design document prior to actual implementation. It shall be the responsibility of the SI to meet all the requirements of technical specifications contained in the RFP and any upward revisions and/or additions of quantities, specifications sizes given in the Bidding Documents required to be made during execution of the works, shall not constitute a change order and shall be carried out without a change order and shall be carried out without any time and cost effect to Purchaser	We request that the clause is amended as follows: "The SI agrees that the requirements given in the Bidding Documents are minimum requirements and are only indicative. The SI would need to fetch out the details at the time of preparing the design document prior to actual implementation. It shall be the responsibility of the SI to meet all the requirements of technical specifications contained in the RFP and any upward revisions and/or additions of quantities, specifications sizes given in the Bidding Documents required to be made during execution of the works, shall not constitute a change order and shall be carried out without a change order and shall be carried out without any time and cost effect to Purchaser. <u>However, if there is change in quantities of the items listed in SOR/BoQ, resulting from physical survey and/or change in guidelines from Purchaser, it shall be processed as per the Change Management procedure</u> "	Tender conditions shall prevail
Vol.2	1361	STL - Sterlite Technologies Limited	Vol 2: 5.2.2.1- Integrated Command Control Platform	112	24. Sensor platform OEM shall provide Developer Program tools that help City to develop/integrate new applications, and/or use solution APIs to enhance or manage existing solution at no extra cost	We understand that enhancement/customization of existing solutions/systems to enable them for integration with new solutions/applications shall be facilitated by the Purchaser. Any delay in inputs/support from developer/owner of existing solution/system/application shall be excused for the purposes of levy of penalty/LD. Please confirm	Tender conditions shall prevail
Vol.2	1362	Hexagon Geospatial	Volume -2 , Section 5.2.2.1 , Point No 74	117	Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	Smart Cities Council or Navigant Research Report is Paid Private membership body , request you to refer it "Smart City Platform should be implemented in any ICC Implementation in India for Smart City / Emergency operation Center	This clause is deleted
Vol.1	1363	BSNL	Vol 1, 3.5. Pre- Qualification Criteria, Point 3	Page 35 of 104	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	Since this is a PQ criteria it is requested that the tender authority to allow project with 200 camera as well as not only outdoor but all manner of camera installation (indoor / outdoor) be allowed to fulfill this criteria.	Tender conditions shall prevail.
Vol.1	1364	BSNL	Vol 1, 3.5. Pre- Qualification Criteria, Point 3	Page 35 of 104	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	We request the tender authority to please consider allowing the following credential as well that is implementation of cameras with VMS on a short term services model for election commission	Refer to AddendumVI
Vol.1	1365	BSNL	Vol 1, 3.6.1 Technical Bid Criteria & Evaluation, B1 City Surveillance Projects	Page 40 of 104	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	Since in the PQ criteria project with 200 count is asked, we request the tender authority to please the same in TQ as requirement instead of minimum value of INR 15 Crores. Else reduce the minimum value to INR 5 Crores in order to encourage a wider participation	Refer to AddendumVI
Vol.1	1366	BSNL	Vol 1, 3.6.1 Technical Bid Criteria & Evaluation, B2 Integrated Traffic Management System	Page 40 of 104	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date)	Since this criteria encompasses Intelligent Traffic Management a minimum value of INR 7 Crores can to too strict. Hence we request the tender authority to reduce the minimum value to INR 5 Crores in order to encourage a wider participation	Refer to Addendum 7 (Sl. No. 21)

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	1367	BSNL	Vol 1, 10. Annexure 6 - Consortium Agreement, Point III	Page 93 of 104	The Parties shall be jointly and severally responsible and bound towards the Authority for the performance of the works in accordance with the terms and conditions of the BID document, and Contract.	Since it is a common practice in similar nature smart city tenders to have joint and several liability only for the lead bidder and other members being severally responsible for their respective scope. We request the tender authority to revise the liability clause as: The Lead bidder shall be jointly and severally responsible for complete scope including meeting the SLAs, whereas consortium partners shall be severally responsible only for their respective scope.	Tender conditions shall prevail.
Vol.2	1368	BSNL	Volume 2	42	Point no.6- Network between the SDC & ICCC will be on dual Protection Mode- Who shall provide.	Point no.6- Network between the SDC & ICCC on dual Protection Mode- Who shall provide the network.	MSI to ensure network availability in line with SLA requirements
Vol.2	1369	BSNL	Volume 2	42	Point No.10- Type of connectivity to PoP : DF/ILL/MPLS/P2P is not specified.	Point No.10- Type of connectivity to PoP : DF/ILL/MPLS/P2P is not specified.	MSI to ensure network availability in line with SLA requirements
Vol.2	1370	BSNL	Volume 2	42	Point no.9 – Proposed last mile network to be wired. However point 14 talks of RF redundancy.	Point no.9 – Proposed last mile network to be wired. However point 14 talks of RF redundancy.	MSI to ensure network availability in line with SLA requirements
Vol.2	1371	BSNL	Volume 2	45	4.21.2- When the PoP connectivity is on State N/w how SI to ensure the connectivity.	4.21.2- When the PoP connectivity is on State N/w how SI to ensure the connectivity.	For backbone connectivity State Owned NW will be used and O&M of that would be done by State owned NW provider as per SLA guidelines and monitoring and get rectified with help of NW provider is SI responsibility.
Vol.2	1372	BSNL	Volume 2	45	I. Provisioning Network Links.	I. Who will provide the backbone network?	State owned NW Service Providers
Vol.2	1373	BSNL	Volume 2	46	III-C Activity not defined.	III-C Activity not defined.	c) SI shall be responsible for the following activities: (further activities mentioned in sections below) IV. Network Access V. Internet Service Management VI. Infrastructure Management VII. Data Transmission VIII. Network Assessment
Vol.2	1374	BSNL	Volume 2	48	4.21.3- Point 2 Hosting Services	What shall be the quantum of the charges?	SDC usage policy is under implementation by dep't of IT (GOA). Uses charges of SDC will be paid by GSCL directly.
Vol.2	1375	BSNL	Volume 2	50	3d- To provide live video feed to 20 nos of PS.	d- What shall be the connectivity type to the PS and who shall pay & plan for the same?	Connectivity to PS will be on OFC in ring model.
Vol.2	1376	BSNL	Volume 2	50	How many external agency staff to be hosted in the ICCC?	How many external agency staff to be hosted in the ICCC?	5 to 6
Vol.2	1377	BSNL	Volume 2	304	Is it mandatory to provide the redundancy to Traffic points on RF Only?	Is it mandatory to provide the redundancy to Traffic points on RF Only?	Traffic Points shall both type of connectivity - OFC and RF
Vol.2	1378	BSNL	Volume 2	305	Point H?	Point H?	Tender conditions shall prevail
Vol.2	1379	BSNL	Volume 2	General	Who shall pay for the shifting from the Temporary to Permanent site?	Who shall pay for the shifting from the Temporary to Permanent site?	MSI to consider as part of their offer
Vol.2	1380	BSNL	Volume 2: 4.5 Finalization of Detailed Technical Architecture / 13. GIS Integration	Page 21 of 400	- SI is required to update GIS maps from time to time. - If such a data is already available with city, it shall facilitate to provide the same.	- What is the period of updation (half-yearly / annually) - Requested to share detailed of data availability (No. of layers, year of creation, GIS file format)	Tender conditions prevail refer to response at SL no 577 and 597
Vol.2	1381	BSNL	Volume 2: 4.18 Geographical Information System (GIS) platform	Page 40 of 400	- The SI will have to consult with GSCL and confirm what all GIS map/layer /dataset is available with the city. If the map/layer/dataset is not already available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc. as the part of this project. - SI will also be responsible to ensure that the GIS datasets are updated at regular frequency based on nature of datasets to ensure accuracy during the course of the entire project. - SI will also be responsible to ensure that the GIS datasets are updated at regular frequency based on nature of datasets to ensure accuracy during the course of the entire project.	- Clarification of details of GIS data availability is required. If available or in-progress, - What are the GIS layers are available? If in-progress, how much time is required to complete? Clarification on period of updation and nature of data updation is required	There is no any previous GIS data available with GSCL, Bidder shall coordinate with respective stakeholders related to CCTV & ITMS (Police & Traffic Department) for any updates.
Vol.2	1382	BSNL	Volume 2: 4.18 Geographical Information System (GIS) platform	Page 41 of 400	The scope of work for the SI while implementing GIS are: 1. Creation of City Base Map 2. Creation of layers for roads, properties, forest zones etc.	- Source of satellite data/Others for Base map creation . Requested to add the scale of Base Map? - Detailed information of property details are required? Assuming the property details like plint area, plot area, usage etc are available. How many properties are there?	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1383	BSNL	Volume 2: 5.1.2.5 Other General Requirements / H. Other Miscellaneous Requirements	Page 71 of 400	- Any hardware or software required to achieve the functional requirement and technical solution of the overall Project (may not be specified in the schedule) is to be proposed in the Bid and borne by the SI	Requested to provide clarification of the details of hardware and software (number of S/W License) specification	It is required that the functionality is to be provided in totality, this may be by fighter by VMS / ICCC or any other application.
Vol.2	1384	BSNL	Volume 2: 5.2.2 Technical Specification – ICCC / 5.2.2.1 Integrated Command Control Platform / GIS Map Support & Location engine / SI no. 9	Page 112 of 400	- b) Geospatial calculation: calculates distance between two, or more, locations on the map.	Requested to add both the linear and area measurement on the map	Tender conditions shall prevail
Vol.2	1385	BSNL	Volume 2: 5.3.13 GIS Map for Guwahati City	Page 204 of 400	- SI shall also be responsible for appropriate geo referencing & geo tagging on the map covering all relevant assets like bus stops, bus routes, street poles, high masts, traffic signals etc - SI shall be responsible for providing GIS map of Guwahati city	- All these street poles (e.g., both the electric pole and street light poles) are required to geotagg? - Is their any existing base map information is available? What is the scale of map?	Tender conditions prevail Street light poles to be implemented under Spinelessly works tender of GSCL would need to be geotagged. SI will coordinate with Assam Power Distribution Company Ltd (APDCL) for GIS data pertaining to transmission poles and other equipment/devices. GSCL will facilitate.
Vol.2	1386	BSNL	Volume 2: 5.3.13 GIS Map for Guwahati City	Page 205 of 400	- a) GIS maps shall be comprehensive and detailed up to roads, houses and building level. - c) GIS details procured shall include the following data with attributes: iii. Building footprints and names	- What is the source of information collection? Which satellite data will be used? - What is the source of data to create building footprint? Total number of property information is required	Tender conditions prevail refer to response at SL no 577
Vol.2	1387	BSNL	Volume 2: 5.3.13 GIS Map for Guwahati City	Page 206 of 400	- Xi GIS base maps shall be installed on work stations at City Operation Centre and City Operation center	Base map can not be installed, it may be hosted in server or cloud, Clarification required	Accepted Now read as- "The desktops/display stations in the ICCC and other remote locations will display the base maps and allow the functionalities that are customised as per the requirements of the RFP, from the centralised location."
Vol.2	1388	BSNL	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	1389	BSNL	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1Q, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1390	BSNL	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	1391	BSNL	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1392	BSNL	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 22 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	1393	BSNL	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNTP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNTP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	1394	BSNL	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1395	BSNL	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.2	1396	BSNL	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	1397	BSNL	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	1398	BSNL	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	1399	BSNL	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	1400	BSNL	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 3900 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	1401	BSNL	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 90,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	1402	BSNL	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all Oems are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	1403	BSNL	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	1404	BSNL	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1405	BSNL	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted
Vol.2	1406	BSNL	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1407	BSNL	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	1408	BSNL	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	1409	BSNL	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	1410	BSNL	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1411	BSNL	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	1412	BSNL	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1413	BSNL	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	1414	BSNL	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail
Vol.2	1415	BSNL	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail

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Vol.2	1416	BSNL	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	1417	BSNL	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICSA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	1418	BSNL	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to Addendum XII
Vol.2	1419	BSNL	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	1420	BSNL	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	1421	BSNL	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	1422	BSNL	L2 Switch for POP	L2 Switch for POP	Change Request	Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	1423	BSNL	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	1424	BSNL	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1425	BSNL	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card. 100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	1426	BSNL	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC, 1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	1427	BSNL	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	1428	BSNL	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	1429	BSNL	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.1	1430	BSNL	2.29. Eligible Goods and Services, and OEM Criteria	27	OEM Criteria	ATCS being a important component of the RFP, you are requested to please include suitable OEM criteria of ATCS.	Tender conditions shall prevail.
Vol.1	1431	BSNL	2.29. Eligible Goods and Services, and OEM Criteria	28	The OEM of each product or technology should have valid quality certifications like ISO 9001.	ACTS being a engineering tool, you are requested to consider CMML3 for Traffic Controller OEM.	Agreed. Bidder to Refer Point 1.03 of Amendment 01. "The OEM of each product or technology should have valid quality certifications like ISO 9001 or CMMI Level 3 or better."
Vol.1	1432	BSNL	3.5. Pre-Qualification Criteria	33	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also. ATCS being a new technology and Guwahathi having larger no of junctions , kindly also consider ATCS OEM experience under this clause. Also consider "Adaptive Traffic Singal Control " in place of Traffic signal Control.	Refer to AddendumVI
Vol.1	1433	BSNL	3.5. Pre-Qualification Criteria P	36	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also.	Tender conditions shall prevail.
Vol.1	1434	BSNL	3.5. Pre Qualification Criteria	36	Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member	Kindly consider Certificate signed by the Company Secretary/statutory Auditor/certifying the project details, its value, completion status etc in absence of PO/Completion letter.	Bidder to Refer Point 1.04 of Amendment 01

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	1435	BSNL	3.6.1 Technical Bid Criteria & Evaluation	40	B2 (Integrated Traffic Management System) : The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System	ATCS and RLVD/ANPR system being two different technologies kindly allocate separate marking for ATCS and RLVD/ANPR. OR kindly Consider " Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR <input type="checkbox"/> RLVD System / ANPR System. ATCS scope of Guwahathi is for 64 Junctions, considering the same please increase the minimum project value to 10 Cr. Also ATCS being a new technology and Guwahathi having larger no of junctions , kindly also consider ATCS OEM experience under this clause	Refer to Addendum 7 (Sl. No. 21)
Vol.1	1436	BSNL	3.6.1 Technical Bid Criteria & Evaluation	42	VMS (OEM Criteria)	ATCS being a important and crucial component, please include OEM criteria in Technical evaluation also and allocate suitable marks.	Tender conditions shall prevail.
Vol.1	1437	BSNL	3.6.1 Technical Bid Criteria & Evaluation	44	Proof of Concept (POC)	Please include PoC for ATCS solution also using Simulation Tool.	Tender conditions shall prevail.
Vol.1	1438	BSNL	3.6.1 Technical Bid Criteria & Evaluation Page 44	44	Proposed resources (Max. 10 marks)	Please consider ATCS Expert also from Bidder/OEM.	Tender conditions shall prevail.
Vol.2	1439	BSNL	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	208	"Composite Signal Control Strategy" application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	"Composite Signal Control Strategy" being a proprietary application from CDAC, you are requested to kindly remove this clause and allow fair chance to all the global technologies.	Clause stands deleted
Vol.2	1440	BSNL	Volume 2 4.6.2 Existing Traffic Signal system	23	The infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems which are proposed and required under the scope of this project. The dismantled infrastructure shall be delivered at the GSCL designated location without damage at no extra cost.	As per RFP, dismantling of existing traffic infrastructure and their shifting to designated ware house location should be done at no extra cost. In the RFP details of these existing traffic signals is not available, so details of existing junctions should be included. Also as this activity involves a lot of expenditure in the form of machinery, manpower and transportation while dismantling the items and their shifting to some designated ware house, you are requested to add this whole activity as a separate line item in the Bill of Material.	Tender conditions shall prevail
Vol.2	1441	BSNL	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	N.XII. Make available the network status and report viewing on Web.	This requirement is contradictory with the specification given on s. no. 27 on page 212 of RFP vol. 2 where it asks "Make available the network status and report viewing on the desktop GUI as per RFP" . Please clarify.	Clause to be read as Make available the network status and report viewing on the operator console
Vol.2	1442	BSNL	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) & 5.4.1.8	209 & 227	O. Pedestrian Actuated Traffic Control Signals at places where a large number of people cross the road with heavy vehicular traffic (near Schools, Hospitals, Shopping Centers, places of worship and similar other establishments). P. The pelican signals shall be installed on two diagonally opposite corners of the Zebra Crossing and shall be supported with facilities for the pedestrians to actuate traffic signal control. 5.4.1.8 Pedestrian / Pelican Traffic Signal Controller	In the RFP Pedestrian/ Pelican Traffic signal controllers are asked for mid block kind of junctions near the hospital, schools etc. but their quantity is not mentioned. Kindly provide the details of pelican junctions and include their quantity with traffic lights, poles etc. in the Bill of Material.	Please read Clause 'O' as Any additional item required to fulfil the functional requirement of pedestrian actuated traffic signals at selected junctions shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement " 'P' Clause stands deleted 5.4.1.8 Clause stands deleted

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1443	BSNL	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any thirdparty traffic controller that is UG405 or NTCIP or any other standard communication protocol compliant.	As per RFP Clause "4.6.2 Existing Traffic Signal system" all the existing hardware including traffic lights poles, controller etc. will be dismantled and replaced by the new items. For the ATCS system it needs an ATCS Application and its dedicated type of traffic controller, any other make of traffic controller which is not supported by this ATCS Application can not be controlled through the same. Hence request you to kindly modify the clause as mentioned below: Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol.	Clause to be read as Q. ATSC shall use UG405 or NTCIP or OCIT or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any third-party traffic hardware that is UG405 or NTCIP or any other standard communication protocol compliant.
Vol.2	1444	BSNL	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.2 Countdown timer : Nos 226	In the RFP specifications of Count Down Timers are not given anywhere, secondly count down timers are suitable for Non Adaptive system only where Cycle time and stage time remains constant. But here the system to be deployed is Adaptive in which signal timing will keep on changing based on real time detection data. Request you to kindly remove this item from the Bill of Material.	Item mentioned in BOM stands deleted
Vol.2	1445	BSNL	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 226 1.2.10 Pedestrian lamp heads – Walk Man : Nos 226	As per the list of Traffic Junctions given in RFP, it is observed that out of 64 ATCS junctions, 33 junctions are Three Arm, 28 junctions are Four Arm and 3 junctions are Five Arm type. So for all these junction types, 1 primary vertical LED Aspect, 1 primary horizontal LED Aspect and 1 secondary LED aspects should be there for vehicles in each arm for better visibility of lights. Also there should be 2 LED aspects for pedestrians on both sides for each arm. Hence the quantity of some items mentioned in the Bill of Material should be modified as given below: 1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 485 1.2.6 Traffic Light Aspects – Red : Nos 678 1.2.7 Traffic Light Aspects – Amber : Nos 678 1.2.8 Traffic Light Aspects – Green : Nos 1737 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452
Vol.3	1446	BSNL	Volume 3 43.6.4. City surveillance & ICT Component related performance levels	38	8. Bidder should keep minimum 10% spare at any given point of project execution. Infrastructure equipment should be replaced or repaired after complaint logging from Authority officials Measurement Tool: System generated call log at Helpdesk	ATCS Controllers is of high value item and also has MTBF more then 9 years. Hence 10% is not required .Instead kindly mention Sufficient spare to meet SLA or 10% minimum.	Refer SI 3.18 of Addendum-1
Vol.1	1447	BSNL	Vol 1; Cl. 4.6	51	The Employer will, if requested by the CONTRACTOR, make mobilization advance payments of 10(%) percent of the Awarded Contract Value to the CONTRACTOR to assist in defraying the initial expenses that will necessarily be incurred by the CONTRACTOR for mobilization and design. The Mobilization Advance will be given to the CONTRACTOR with Simple Interest of 10 % (Percent) per annum.	Request for interest free advance.	Response to this query provided above may be referred.

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Vol.3	1448	BSNL	Vol 3; Cl.13	16	<p>Intellectual Property Rights</p> <p>13.1. Retention of Ownership except for the rights expressly granted to the Licensee under this Agreement, the Licensor shall retain all right, title and interest in and to the Licensed Technology, including all worldwide Technology and intellectual property and proprietary rights.</p> <p>13.2. Preservation of Notice Licensee shall not remove, efface or obscure any copyright notices or other proprietary notices or legends from any Licensed Technology or materials provided under this Agreement, and shall reproduce all such notices and legends when incorporating Licensed Technology or materials into any Integrated Products.</p> <p>13.3. SI must ensure that while using any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person/Company. SI shall keep the Authority indemnified against all costs, expenses and liabilities howsoever, arising out any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or violation of any permission/license terms or infringement of any Intellectual Property Rights by SI or SI's Team during the course of performance of the Services. SI's liability is excluded regarding any claim based on any of the following (a) anything Authority provides which is incorporated into the Solution; (b) the Authority's modification of the solution;</p> <p>13.4. Authority shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by SI solely during the performance of Services and for the</p>	we understand this clause is not applicable for Core IPR of any product. Please clarify.	Refer SI 3.13 of Addendum-1
Vol.3	1449	BSNL	Vol 3; Cl.15	18	<p>15. Indemnity</p> <p>15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:</p> <p>a. any negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or</p> <p>b. any breach of any of the terms of SI's bid as agreed, the RFP and this Contract by SI</p> <p>c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof</p> <p>15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc.</p> <p>15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims</p>	<p>1. Limitation of Liability shall be capped at 100% of Contract Value.</p> <p>2. Request you to delete all Carve Out/ Exclusions from Limitation of Liability</p> <p>3. Either party under no legal theory shall have right to claim for consequential losses and damages</p>	Refer SI 3.03 of Addendum-1

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Vol.3	1450	BSNL	Vol 3; Cl.22	21	<p>22. Force Majeure</p> <p>22.1. Force Majeure shall not include any events caused due to acts/ omissions of SI resulting in a breach/ contravention of any of the terms of the Contract and/or SI's Bid. It shall also not include any default on the part of SI due to its negligence or failure to implement the stipulated/ proposed precautions, as were required to be taken under the Contract.</p> <p>22.2. The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.</p> <p>22.3. In case of a Force Majeure, all Parties shall endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.</p> <p>22.4. Force Majeure shall not apply to any obligation of the Owner to make payments to the Contractor</p>	<p>Request you to incorporate the following</p> <ul style="list-style-type: none"> • Request to add events beyond the control of either Party or both the Parties. • Right of EOT and price implication • Both the parties shall have termination rights to both the parties for prolonged suspension due to FM conditions for period more than 60 days continuous and / or 90 days cumulative. • In case of termination SI shall be entitled to be paid for work completed and work in progress 	Refer SI 3.02 of Addendum-1
Vol.3	1451	BSNL	Vol 3; Cl.24	22	<p>24. Insurance</p> <p>24.1. The Goods supplied under this Contract shall be comprehensively insured by SI at his own cost, against any loss or damage, for the entire period of the contract. SI shall submit to the Authority, documentary evidence issued by the insurance company, indicating that such insurance has been taken.</p> <p>24.2. SI shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods and also the charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective sites of installation shall also be borne by SI.</p> <p>24.3. SI shall take out and maintain at its own cost, on terms and conditions approved by the Authority, insurance against the risks, and for the coverages, as specified below;</p> <p>a. At the Authority's request, shall provide evidence to the Authority showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.</p> <p>b. Employer's liability and workers' compensation insurance in respect of the Personnel of the Company, in accordance with the relevant provisions of the Applicable Law as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate</p>	<p>SI shall undertake comprehensive insurance cover valid till scheduled completion period, in case of extension of time for reasons not attributable to SI, period of cover shall be extended by SI at the cost of GSCL.</p>	Refer SI 3.04 of Addendum-1

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Vol.3	1452	BSNL	Vol 3; Cl.25	22	<p>25. Transfer of Ownership 25.1. SI must transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide source code, transfer IPR and ownership right of only those solutions which would be customized by bidder for the use of Guwahati Smart City Limited. For any pre-existing work, SI and Guwahati Smart City Limited shall be held jointly responsible and its use in any other project by SI shall be decided on mutual consent. 25.2. Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by the Authority, SI shall deliver to the Authority all Documents provided by or originating from the Authority and all Documents produced by or from or for SI in the course of performing the Services, unless otherwise directed in writing by the Authority at no additional cost. SI shall not, without the prior written consent of the Authority store, copy, distribute or retain any such Documents</p>	IP rights cannot be transferred or assigned in manner to GSCL.	Refer SI 3.14 of Addendum-1
Vol.3	1453	BSNL	Vol 3; Cl.28	24	<p>28. Liquidated Damages: 28.1. If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. 28.2. The deduction shall not in any case exceed 10 % of the contract value. 28.3. The Authority may without prejudice to its right to effect recovery by any other method, deduct the amount of liquidated damages from any money belonging to SI in its hands (which includes the Authority's right to claim such amount against SI's Bank Guarantee) or which may become due to SI. Any such recovery or liquidated damages shall not in any way relieve SI from any of its obligations to complete the Work or from any other obligations and liabilities under the Contract. 28.4. Delay not attributable to SI shall be considered for exclusion for the purpose of computing liquidated damages.</p>	<p>1. Request you to cap the overall LD for delay in completion at 5% of the Contract Value. 2. Request you to add the following wordings "Levy of LD shall be sole and exclusive remedy available to GSCL."</p>	Tender conditions shall prevail
Vol.3	1454	BSNL	Vol 3; Cl.29	24	<p>29. Limitation of Liability: Limitation of Bidder's Liability towards the Authority: 29.1. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or wilful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out the Services, SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher. 29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services</p>	<ul style="list-style-type: none"> • Limitation of Liability shall be capped at 100% of Contract Value. • Request you to delete all the Carve Out/ Exclusions from Limitation of Liability • Either party under no legal theory shall have right to claim for consequential losses and damages 	Refer SI 3.1 of Addendum-1

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Vol.2	1455	Bharat Electronics Ltd.	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	1456	Bharat Electronics Ltd.	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1457	Bharat Electronics Ltd.	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	1458	Bharat Electronics Ltd.	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1459	Bharat Electronics Ltd.	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 22 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	1460	Bharat Electronics Ltd.	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	1461	Bharat Electronics Ltd.	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1462	Bharat Electronics Ltd.	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.2	1463	Bharat Electronics Ltd.	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	1464	Bharat Electronics Ltd.	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	1465	Bharat Electronics Ltd.	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	1466	Bharat Electronics Ltd.	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control

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Vol.2	1467	Bharat Electronics Ltd.	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 3900 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	1468	Bharat Electronics Ltd.	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 90,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	1469	Bharat Electronics Ltd.	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all Oems are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	1470	Bharat Electronics Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	1471	Bharat Electronics Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1472	Bharat Electronics Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted
Vol.2	1473	Bharat Electronics Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1474	Bharat Electronics Ltd.	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	1475	Bharat Electronics Ltd.	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	1476	Bharat Electronics Ltd.	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	1477	Bharat Electronics Ltd.	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1478	Bharat Electronics Ltd.	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	1479	Bharat Electronics Ltd.	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1480	Bharat Electronics Ltd.	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	1481	Bharat Electronics Ltd.	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1482	Bharat Electronics Ltd.	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	1483	Bharat Electronics Ltd.	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	1484	Bharat Electronics Ltd.	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	1485	Bharat Electronics Ltd.	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to addendum XII
Vol.2	1486	Bharat Electronics Ltd.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	1487	Bharat Electronics Ltd.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	1488	Bharat Electronics Ltd.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	1489	Bharat Electronics Ltd.	L2 Switch for POP	L2 Switch for POP	Change Request	Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1490	Bharat Electronics Ltd.	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards. The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	1491	Bharat Electronics Ltd.	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lambda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	1492	Bharat Electronics Ltd.	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card. 100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	1493	Bharat Electronics Ltd.	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC, 1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	1494	Bharat Electronics Ltd.	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	1495	Bharat Electronics Ltd.	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	1496	Bharat Electronics Ltd.	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	1497	BMC	. Vol.02. Workload Automation Tool	Page 125	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workload refers to Containerised Applications or VM based Application along with Application stack workload. Please Confirm.	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1498	BMC	. Vol.02. Workload Automation Tool	Page 125	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workloads that refer to automating business processes through events/ batch / streaming modes.e.g Business process in smart cities could refer to transfer of data from IoT devices to the BI layer. Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1499	BMC	. Vol.02. Workload Automation Tool	Page 125	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Since workloads are configured at unitary levels encompassing API's, procedures, scripts, applications- it is next to impossible to determine costs associated, Request you to please rephrase this as "The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into configuration of each workload"	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1500	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 171	9. Should be additional wireless APs can be registered and configured	Request you to please move this ask from EMS section to Wireless Controller section, As Wireless APs are primarily configured and registered to Wireless Controller, NMS/EMS tool can monitor the fault and performance of network devices using SNMP.	Clause deleted
Vol.2	1501	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 172	11. Comprehensive event log provides network issue resolution. Solution should be inclusive with hardware, OS, patches, database and any other licenses for their monitoring etc.	As per the ask, it looks that you are looking for end-to-end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications. Please confirm.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1502	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 180	134 It should have an integrated CMDB for strong Change Management capabilities. Should integrate with existing Helpdesk deployed.	Integrating with existing Helpdesk tool will restrict the participation, And ownership of integration with existing Helpdesk will be a challenge for bidder. It is suggested to remove this clause. Also, solution from Single OEM for monitoring and Helpdesk, will give seamless integration capabilities, Out of box Connectors, Better root cause navigation and Intelligent ticketing, better event enrichment and noise suppression. Bidder should be free to propose new Helpdesk ITIL 2011 based solution with single unified CMDB for better management.	Tender conditions shall prevail
Vol.2	1503	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 178	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	It is recommended, Server Automation solution should analyze servers for Patching, compliance with internal policies or industry standards, based on powerful compliance rules out-of-the-box. Are you also looking for such functionalities? Please Confirm	102. Configuration and patch management: Management platform must provide a tool which tracks and analyses hardware, database, OS, application server software configurations and patches. Bidder may provide separate tool to achieve the desired requirement. All the proposed tool should be integrated with EMS.
Vol.2	1504	BMC	. Vol.02. Workload Automation Tool	Page 125	201 The solution should provide workload automation that provides full stack visibility and control:- resources aware, Application aware, Database aware	It is recommended, Server Automation solution should allow administrators to configure and schedule tasks from a centralized console, including rolling out software, upgrading operating systems, executing commands remotely and targeting computers based on specific hardware and software attributes. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1505	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 172	29. Should have ability to correlate events across the entire infrastructure components of SDC.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events. Please confirm.	29. Should have ability to correlate events across the proposed Data Center infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events.
Vol.2	1506	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 179	125. Proposed incident tracking system would be ITIL 2011compliant	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Complete 10+ ITIL 2011 process flow for Incident, problem, Change and release, Asset and Service level Management. Please confirm.	Tender conditions shall prevail
Vol.2	1507	BMC	. Vol.02. 5.3.4 Network Management System / Enterprises Management System(NMS/EMS)	Page 180	130. It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Helpdesk with Mobile based App so that all the tickets can be effectively manage and monitor for timely action by the Agent. Also, User can raise requests at their ease from Mobile App instead of login to Web URL. Please Confirm.	Tender conditions shall prevail
Vol.3	1508	BMC	. Vol.03. 43.6.4. City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	Page 39	9. Asset / Inventory Management	As a good practice, Asset and Inventory management data should be stored on Single CMDB, for effective management and mapping of Assets, same CMDB should be accessed by Helpdesk to any asset related raise incidents/tickets. The Common database will help in seamless tracking and management of assets. Are you looking for Common database or CMDB of helpdesk and Asset Management? Please Confirm	Bidder's understanding is correct.
Vol.2	1509	BMC	. Vol.02. Workload Automation Tool	Page 125	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended for smooth flow of automation process, "The solution should orchestrate the entire IT workload execution of jobs & processes automatically without manual intervention. It should have the ability to configure recovery of jobs in case of failure." Are you looking for such functionalities? Please Confirm.	This is not part of ICCS stack but part of DC management toolset.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1510	BMC	. Vol.02. Workload Automation Tool	Page 125	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should provide configurable Business workflows for tasks such as management of data applications. The solution should be able to use learning methods to forecast jobs by monitoring workflows. The Solution should map workflows to business services and their respective deadlines and allows for proactive alerting when a workflow is in danger of missing an SLA. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1511	BMC	. Vol.02. Workload Automation Tool	Page 125	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should have a consolidated view of all jobs and IT process workloads in a centralized dashboard. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1512	BMC	. Vol.02. Workload Automation Tool	Page 125	General Query	It is recommended, Server Automation solution should be able to scan all servers (Windows, Linux and Unix OS to be supported by Server Automation solution) with in the network for missing security patches and compliance. The detection shall be automated and shall trigger the patch through central system. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1513	BMC	. Vol.02. 5.2.2.1 Integrated Command Control Platform	Page 112	5. The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	1514	BMC	. Vol.02. 5.2.2.1 Integrated Command Control Platform	Page 115	48 Adapter studio must have capability to consume data from multiple sources with different communications such as web services, Web Sockets, FTP, Fileserver, MQTT, real-time streams, etc.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	1515	BMC	. Vol.02. 5.4.3.5 System Management Requirements	Page 252	i) The system shall be compiled with automated File Transfer Protocol (FTP) software; this software will push generated speeding incident files to the central control room automatically as they are generated. The software will use the FTP protocol.	It is important that various interactions in the smart city processes necessitate a lot of file transfers. Also it is important that secure channels to send or receive files through HTTPS, SFTP methods. Are you looking for such functionalities? Please Confirm	Tender conditions shall prevail
Vol.1	1516	Onnyx Electronisys Pvt. Ltd.	Volume-1	34	2 A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. • In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement	We request you to kindly reduce the average annual turnover criteria from INR 75 Cr to INR 20 Crores for consortium member in order to allow more number of MSME participants in this tender.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	1517	Onnyx Electronisys Pvt. Ltd.	Volume-1	40	B2. The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: •Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND •RLVD System / ANPR System	ATCS and RLVD/ANPR are two quite different fields and can't be grouped into one category. Since the concept of ATCS has been introduced in India very recently and very few ATCS Project has been completed. In addition to Number of Project, size of project should also be given weightage. We request you to kindly modify this clause as mentioned below: B2. The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: •Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR •RLVD System / ANPR System	Refer to Addendum 7 (Sl. No. 21)
Vol.2	1518	Onnyx Electronisys Pvt. Ltd.	Volume-2	41	Marks shall be allotted as below: "Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6"	Marks shall be allotted as below: "Number of Projects Marks >= 3 Projects of 7 Cr each/1 project of >=25Cr 10 2 Projects of 7 Cr each/1 project of 20Cr 8 1 Project of 7 Cr 6"	Tender conditions shall prevail
Vol.1	1519	Cisco Systems, Inc.	Vol 1	Page 28, 2.29. Eligible Goods and Services, and OEM Criteria	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	In vol 2., it is mentioned as follows: 4) OEM undertaking that the quoted product will not become end of sale within next 12 months. 5) OEM undertaking that the quoted product will not become end of support/end of life for next 5 years. We feel this is the point which needs to be followed since Vol II is for scope of work and technical specifications. Please clarify	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.2	1520	Cisco Systems, Inc.	Page 82, 4 Port POE switch, clause no. 5	Page 82, 4 Port POE switch, clause no. 5	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	6 x 10/100/1000 (PoE+ on all ports) + 2 x combo or dedicated Gigabit SFP, Switch should support Rugged SFPs and all the transceiver should be from the same OEM as the switch	Refer to Addendum VII (sl no 16)
Vol.2	1521	Cisco Systems, Inc.	Page 82, 4 Port POE switch, clause no. 7	Page 82, 4 Port POE switch, clause no. 7	120 W or Better	180W or Better	Refer to Addendum VII (sl no 16)
Vol.2	1522	Cisco Systems, Inc.	Page 82, 4 Port POE switch, clause no. 8	Page 82, 4 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 09 Mbps or better Switching capacity: 12 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 16 Gbps or better	Refer to Addendum VII (sl no 16)
Vol.2	1523	Cisco Systems, Inc.	Page 82, 4 Port POE switch, clause no. 10	Page 82, 4 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 along with multicasting should be supported for future enhancements without changing the hardware.	Refer to Addendum VII (sl no 16)
Vol.2	1524	Cisco Systems, Inc.	Page 83, 4 Port POE switch, clause no. 14	Page 83, 4 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	Refer to Addendum VII (sl no 16)
Vol.2	1525	Cisco Systems, Inc.	Page 83, 4 Port POE switch, clause no. 17	Page 83, 4 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Refer to Addendum VII (sl no 16)

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1526	Cisco Systems, Inc.	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Refer to Addendum VII (sl no 16)
Vol.2	1527	Cisco Systems, Inc.	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	Refer to Addendum VII (sl no 16)
Vol.2	1528	Cisco Systems, Inc.	Page 84, 4 Port POE switch, clause no. 19	Page 84, 4 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Refer to Addendum VII (sl no 16)
Vol.2	1529	Cisco Systems, Inc.	Page 84, 4 Port POE switch, clause no. 25	Page 84, 4 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Refer to Addendum VII (sl no 16)
Vol.2	1530	Cisco Systems, Inc.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Refer to Addendum VII (sl no 16)
Vol.2	1531	Cisco Systems, Inc.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Refer to Addendum VII (sl no 16)
Vol.2	1532	Cisco Systems, Inc.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QOS and rate-limit on all the ports	Refer to Addendum VII (sl no 16)
Vol.2	1533	Cisco Systems, Inc.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Refer to Addendum VII (sl no 16)
Vol.2	1534	Cisco Systems, Inc.	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Refer to Addendum VII (sl no 18)
Vol.2	1535	Cisco Systems, Inc.	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1536	Cisco Systems, Inc.	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 20 Gbps or better	Refer to Addendum VII (sl no 19)
Vol.2	1537	Cisco Systems, Inc.	Page 85, 8 Port POE switch, clause no. 10	Page 85, 8 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 and multicast should be supported for future enhancements without changing the hardware.	Refer to Addendum XII
Vol.2	1538	Cisco Systems, Inc.	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1539	Cisco Systems, Inc.	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	Refer to Addendum VII (sl no 24)
Vol.2	1540	Cisco Systems, Inc.	Page 86, 8 Port POE switch, clause no. 14	Page 86, 8 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1541	Cisco Systems, Inc.	Page 86, 8 Port POE switch, clause no. 17	Page 86, 8 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Refer to addendum VII
Vol.2	1542	Cisco Systems, Inc.	Page 86, 8 Port POE switch, clause no. 19	Page 86, 8 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	1543	Cisco Systems, Inc.	Page 87, 8 Port POE switch, clause no. 25	Page 87, 8 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	1544	Cisco Systems, Inc.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch		Switch should support IEEE1588 PTP for precision time syncronization	Tender conditions shall prevail
Vol.2	1545	Cisco Systems, Inc.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch		The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	1546	Cisco Systems, Inc.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch		The switch should have support for egress queuing , Auto-QOS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	1547	Cisco Systems, Inc.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch		MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	1548	Cisco Systems, Inc.	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Bidder may propose better and more functionality
Vol.4	1549	Cisco Systems, Inc.	BOQ-27684	Schedule-B, Serial No. 5.3.2		The Internet router has been considered as only 1 in quantity in the Schedule B of the BOQ file. This lacks resiliency and becomes a single point of failure. Hence, we are requesting to increase the quantity to at least 2. Further, the specs in Vol. 2 has the specs for Internet switch and not as Internet Router, so we are assuming that it is a typo on the BOQ file and it should be Internet switch on both BOQ and specs of Vol. 2 of the RFP. Pls confirm on the same.	Refer to BOQ
Vol.2	1550	Cisco Systems, Inc.	Page 136, Internet Switch - L3, clause no. 9	Page 136, Internet Switch - L3, clause no. 9	Power supply:230V AC PSU	"Power supply:Redundant and field replaceable 230V AC PSU "	Tender conditions shall prevail
Vol.2	1551	Cisco Systems, Inc.	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	1552	Cisco Systems, Inc.	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	1553	Cisco Systems, Inc.	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	1554	Cisco Systems, Inc.	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Refer to Addendum XII
Vol.2	1555	Cisco Systems, Inc.	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 2000 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	1556	Cisco Systems, Inc.	Page 166, Spine& Leaf Switch, clause no. 11	Page 166, Spine& Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 50,000 or more MAC addresses	Refer to Addendum VI
Vol.2	1557	Cisco Systems, Inc.	Page 168, Spine & Leaf Switch, clause no. 39	Page 168, Spine & Leaf Switch, clause no. 39	The solution must have virtualization feature.	The solution must have virtualization feature and should support at least 1000 VRFs	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1558	Cisco Systems, Inc.	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all OEMs are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Both the firewall shallbe from the same OEM
Vol.2	1559	Cisco Systems, Inc.	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	1560	Cisco Systems, Inc.	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	Addendum X
Vol.2	1561	Cisco Systems, Inc.	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Addendum X
Vol.2	1562	Cisco Systems, Inc.	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	Addendum X
Vol.2	1563	Cisco Systems, Inc.	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	1564	Cisco Systems, Inc.	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	1565	Cisco Systems, Inc.	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	1566	Cisco Systems, Inc.	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1567	Cisco Systems, Inc.	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	1568	Cisco Systems, Inc.	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1569	Cisco Systems, Inc.	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	1570	Cisco Systems, Inc.	Intranet Firewall with IPS	Intranet Firewall with IPS		Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replaceable	Tender conditions shall prevail
Vol.2	1571	Cisco Systems, Inc.	Vol 2+F46	Page no-184, Next generation Firewall, Clause No 4	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	"Suggestions in Justifications 10G interfaces are back compatible to 1G thus if network really has 1G requirement than 10G ports can be used there. Also for a 40G day 1 support means the network is 40G ready and the required number of 1G and 10G becomes redundant as the uplink and downlink can be on 40G and removed."	Refer Addendum XII

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1572	Cisco Systems, Inc.	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Refer Addendum XII
Vol.2	1573	Cisco Systems, Inc.	Next generation Firewall	Next generation Firewall	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replacable	Tender conditions shall prevail
Vol.2	1574	Cisco Systems, Inc.	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to polulate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Refer to addendum XII
Vol.2	1575	Cisco Systems, Inc.	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	1576	Cisco Systems, Inc.	Load Balancer with WAF	Load Balancer with WAF		Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	1577	Cisco Systems, Inc.	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to addendum XII
Vol.2	1578	Cisco Systems, Inc.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Storage solution should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Tender conditions shall prevail
Vol.2	1579	Cisco Systems, Inc.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)
Vol.2	1580	Cisco Systems, Inc.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels 1, 6, 10 or equivalent Erasure Coding Configurations	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.
Vol.2	1581	Cisco Systems, Inc.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	1582	Cisco Systems, Inc.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Refer to Addendum XII
Vol.2	1583	Cisco Systems, Inc.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Storage shall have minimum front-end support for 16Gb and backend support for minimum 12Gb.	Each Storage controller/Node shall have minimum front-end (network) support for 25Gb and backend support for minimum 12Gb.	Clause deleted
Vol.2	1584	Cisco Systems, Inc.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	All the necessary software (GUI Based) to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1585	Cisco Systems, Inc.	page No. 201, Storage Specifications	page No. 201, Storage Specifications	Additional parameter	Storage feature: The solution should provide inbuilt native deduplication and compression capabilities	Tender conditions shall prevail
Vol.2	1586	Cisco Systems, Inc.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	Refer to addendum XII
Vol.2	1587	Cisco Systems, Inc.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	The solution should be offered with redundancy of Compute, Hard disk and Connectivity.	The solution should be offered with one additional node for ensuring that there would be no performance degradation in case of 1 node failure.	Refer to Addendum XII
Vol.2	1588	Cisco Systems, Inc.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with minimum 800GB cache capacity additional to usable storage. Proposed HCI solution shall be able to scale twice the current mentioned capacity.	Tender conditions shall prevail
Vol.2	1589	Cisco Systems, Inc.	Page No. 203, Hyper Converged Infrastructure (HCI)	Page No. 203, Hyper Converged Infrastructure (HCI)	Proposed solution shall be able to Track and manage firmware versions ,display & report inventory across all proposed Servers.	Proposed solution shall be able to centrally Track and manage firmware versions ,display & report inventory across all proposed Servers at DC & DRC.	Tender conditions shall prevail
Vol.2	1590	Cisco Systems, Inc.	L2 Switch for POP	L2 Switch for POP	Change Request	Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	Refer to Addendum VII (sl no 1)
Vol.2	1591	Cisco Systems, Inc.	Page 302, L2 Switch for POP, Clause No. 1	Page 302, L2 Switch for POP, Clause No. 1	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports. All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half duplex ports.	The device must support 18x 1GE+ 6 x 10GE.Considering the growth in traffic number of 10G interfaces should be more.18x1G interfaces are sufficient to connect IE switche ring.	Refer to Addendum VII (sl no 2)
Vol.2	1592	Cisco Systems, Inc.	Page 302, L2 Switch for POP, Clause No. 2	Page 302, L2 Switch for POP, Clause No. 2	Layer 2	The device should be Layer3 switch or Router with IP/MPLS capabilities.As per city network design,all IE switch ring will terminate on this switch/router. This will act as pre aggregation or aggregation for nwtwork.Having layer 3 and IP/MPLS capabilities on this will ensure that broadcast domain is limited and Servies like Layer3 ,Layer2 ,Multicast can be enabled from this node.	Refer to Addendum VII (sl no 1)
Vol.2	1593	Cisco Systems, Inc.	Page 302, L2 Switch for POP, Clause No. 4	Page 302, L2 Switch for POP, Clause No. 4	Minimum 128Gbps Switching fabric capacity	Since the devcie will act as pre aggregation/Agregation device suggest to increase the throughput to 200Gbps.	Refer to Addendum VII (sl no 4)
Vol.2	1594	Cisco Systems, Inc.	Page 302, L2 Switch for POP, Clause No. 7	Page 302, L2 Switch for POP, Clause No. 7	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Refer to Addendum VII (sl no 5)
Vol.2	1595	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	All the devcies will deployed in filed and will require high temperature sustainability.Request to increase the temperature to 0 to 65	Refer to Addendum VII (sl no 6)
Vol.2	1596	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 9	Page 303, L2 Switch for POP, Clause No. 9	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Refer to Addendum VII (sl no 5)
Vol.2	1597	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	New features	Multicast will be one of the key feature as we intend to connect cameras and other appkcatins in future.The devices must support 4K Multicast routes to achieve the ultimate goal of city network.	Refer to Addendum VII (sl no 10)
Vol.2	1598	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 10	Page 303, L2 Switch for POP, Clause No. 10	Packet Forwarding Rate should be 95 Mpps or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the Packet Forwarding Rate should be 200 Mpps or better	Clause deleted
Vol.2	1599	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 18	Page 303, L2 Switch for POP, Clause No. 18	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	Jumbo frame standard is is 9000 MTU pls change it to 9000.	Refer to Addendum VII (sl no 9)
Vol.2	1600	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 20	Page 303, L2 Switch for POP, Clause No. 20	Support Multicasting	The devices must suport multicast layer 3 VPN,PIM,PIM SSM,IGMP V1,V2,V3.	Refer to Addendum VII (sl no 10)
Vol.2	1601	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 22	Page 303, L2 Switch for POP, Clause No. 22	Should support Ring protection	The devcies must support all the ring protection mechanism like IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	Refer to Addendum VII (sl no 11)

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Vol.2	1602	Cisco Systems, Inc.	Page 303, L2 Switch for POP, Clause No. 28	Page 303, L2 Switch for POP, Clause No. 28	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	The devcies must support all the ring protection mechanism like G.8032, IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	Refer to Addendum VII (sl no 11)
Vol.2	1603	Cisco Systems, Inc.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The devcies must support 2 Level HQOS for granular Quality of Service	Tender conditions shall prevail
Vol.2	1604	Cisco Systems, Inc.	Page 304, L2 Switch for POP, Clause No. 39	Page 304, L2 Switch for POP, Clause No. 39	Should support 4 groups of RMON	RMON is very old methodology for network monitoring there are new protocols like Telemetry ,SNMP which should be allowed for better network managemnt and logging	Refer to Addendum VII (sl no 12)
Vol.2	1605	Cisco Systems, Inc.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,		The router/layer3 switch must support following layer3 proticocols: 1.OSPF V2 and V3,ISIS 2.BGP (IPv4,VPNv4,IPv6) 3.MPLS LDP 4.Multicast VPN,Layer2 VPN,Layer3 VPN,VPLS 5.Segment routing 6.TI-LFA 7.EVPN 8.SR v6	Refer to Addendum VII (sl no 1)
Vol.2	1606	Cisco Systems, Inc.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,		Segment routing Flex-algo should be supported to ensure each category of traffic is getting bandwidth as per their Latency and SLA requirement	Refer to Addendum VII (sl no 1)
Vol.2	1607	Cisco Systems, Inc.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,		Segment routing Data Plane monitoring should be supported to ensure that traffic is not blackholed and not dropped due to network issues.	Refer to Addendum VII (sl no 1)
Vol.2	1608	Cisco Systems, Inc.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,		The device must support minimum 8 label depth for Segment routing to work as desired.	Refer to Addendum VII (sl no 1)
Vol.2	1609	Cisco Systems, Inc.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,		The device series should be CE3.0 certified	Refer to Addendum VII (sl no 1)
Vol.2	1610	Cisco Systems, Inc.	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	1611	Cisco Systems, Inc.	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	1612	Cisco Systems, Inc.	Page No. 299, DWDM/OTN, Clause No. 4	Page No. 299, DWDM/OTN, Clause No. 4	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card)	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	1613	Cisco Systems, Inc.	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card.100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	1614	Cisco Systems, Inc.	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC,1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	1615	Cisco Systems, Inc.	Page No. 299, DWDM/OTN, Clause No. 7	Page No. 299, DWDM/OTN, Clause No. 7	The offered system should be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradable in service to carry 100 Gbit/s channels along with 10G channels.	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	1616	Cisco Systems, Inc.	Page No. 300, DWDM/OTN, Clause No. 10	Page No. 300, DWDM/OTN, Clause No. 10	2) Relative humidity: Up to 90% at non-condensing for the DWDM.	Pls change the relative humidity to 85%.	Refer to Addendum VII (sl no 17)
Vol.2	1617	Cisco Systems, Inc.	Page No. 300, DWDM/OTN, Clause No. 11	Page No. 300, DWDM/OTN, Clause No. 11	The attenuation per Km for fibre shall be taken as 0.25 db per km. The link shall be designed with a fibre and OSNR margin of 3db.	We need a network/topology to design.	Refer to Addendum VII (sl no 17)
Vol.2	1618	Cisco Systems, Inc.	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	1619	Cisco Systems, Inc.	Page No. 295, Core Router, Clause No. 7	Page No. 295, Core Router, Clause No. 7	Should have a minimum capacity of 2Tbps	Should have a minimum capacity of 4 Tbps	Tender conditions shall prevail

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Vol.2	1620	Cisco Systems, Inc.	Page No. 295, Core Router, Clause No. 10	Page No. 295, Core Router, Clause No. 10	Should have minimum 32GB RAM	Should have minimum 24GB RAM from Day 1 with support to go upto 32GB for future scalability	Should have minimum 16GB RAM
Vol.2	1621	Cisco Systems, Inc.	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	Refer to Addendum XII
Vol.2	1622	Cisco Systems, Inc.	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	Refer to Addendum VI
Vol.2	1623	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workload refers to Containerised Applications or VM based Application along with Application stack workload. Please Confirm.	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1624	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workloads that refer to automating business processes through events/ batch / streaming modes.e.g Business process in smart cities could refer to transfer of data from IoT devices to the BI layer. Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1625	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Since workloads are configured at unitary levels encompassing API's, procedures, scripts, applications- it is next to impossible to determine costs associated, Request you to please rephrase this as "The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into configuration of each workload"	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1626	Cisco Systems, Inc.	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	9. Should be additional wireless APs can be registered and configured	Request you to please move this ask from EMS section to Wireless Controller section, As Wireless APs are primarily configured and registered to Wireless Controller, NMS/EMS tool can monitor the fault and performance of network devices using SNMP.	Clause deleted
Vol.2	1627	Cisco Systems, Inc.	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	11. Comprehensive event log provides network issue resolution. Solution should be inclusive with hardware, OS, patches, database and any other licenses for their monitoring etc.	As per the ask, it looks that you are looking for end-to-end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications. Please confirm.	Tender conditions shall prevail
Vol.2	1628	Cisco Systems, Inc.	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	134 It should have an integrated CMDB for strong Change Management capabilities. Should integrate with existing Helpdesk deployed.	Integrating with existing Helpdesk tool will restrict the participation, And ownership of integration with existing Helpdesk will be a challenge for bidder. It is suggested to remove this clause. Also, solution from Single OEM for monitoring and Helpdesk, will give seamless integration capabilities, Out of box Connectors, Better root cause navigation and Intelligent ticketing, better event enrichment and noise suppression. Bidder should be free to propose new Helpdesk ITIL 2011 based solution with single unified CMDB for better management.	Tender conditions shall prevail
Vol.2	1629	Cisco Systems, Inc.	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	It is recommended, Server Automation solution should analyze servers for Patching, compliance with internal policies or industry standards, based on powerful compliance rules out-of-the-box. Are you also looking for such functionalities? Please Confirm	102. Configuration and patch management: Management platform must provide a tool which tracks and analyses hardware, database, OS, application server software configurations and patches. Bidder may provide separate tool to achieve the desired requirement. All the proposed tool should be integrated with EMS.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1630	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	201 The solution should provide workload automation that provides full stack visibility and control:- resources aware, Application aware, Database aware	It is recommended, Server Automation solution should allow administrators to configure and schedule tasks from a centralized console, including rolling out software, upgrading operating systems, executing commands remotely and targeting computers based on specific hardware and software attributes. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1631	Cisco Systems, Inc.	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	29. Should have ability to correlate events across the entire infrastructure components of SDC.	As per the ask, it looks that you are looking for end-to-end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events. Please confirm.	29. Should have ability to correlate events across the proposed Data Center infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events.
Vol.2	1632	Cisco Systems, Inc.	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	125. Proposed incident tracking system would be ITIL 2011compliant	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Complete 10+ ITIL 2011 process flow for Incident, problem, Change and release, Asset and Service level Management. Please confirm.	Tender conditions shall prevail
Vol.2	1633	Cisco Systems, Inc.	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	130. It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Helpdesk with Mobile based App so that all the tickets can be effectively manage and monitor for timely action by the Agent. Also, User can raise requests at their ease from Mobile App instead of login to Web URL. Please Confirm.	Tender conditions shall prevail
Vol.2	1634	Cisco Systems, Inc.	Page 39. City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	Page 39. City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	9. Asset / Inventory Management	As a good practice, Asset and Inventory management data should be stored on Single CMDB, for effective management and mapping of Assets, same CMDB should be accessed by Helpdesk to any asset related raise incidents/tickets. The Common database will help in seamless tracking and management of assets. Are you looking for Common database or CMDB of helpdesk and Asset Management? Please Confirm	9. Asset / Inventory Management shall be stored on single CMDB.
Vol.2	1635	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended for smooth flow of automation process, "The solution should orchestrate the entire IT workload execution of jobs & processes automatically without manual intervention. It should have the ability to configure recovery of jobs in case of failure." Are you looking for such functionalities? Please Confirm.	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1636	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should provide configurable Business workflows for tasks such as management of data applications. The solution should be able to use learning methods to forecast jobs by monitoring workflows. The Solution should map workflows to business services and their respective deadlines and allows for proactive alerting when a workflow is in danger of missing an SLA. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1637	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should have a consolidated view of all jobs and IT process workloads in a centralized dashboard. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1638	Cisco Systems, Inc.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	General Query	It is recommended, Server Automation solution should be able to scan all servers (Windows, Linux and Unix OS to be supported by Server Automation solution) with in the network for missing security patches and compliance. The detection shall be automated and shall trigger the patch through central system. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1639	Cisco Systems, Inc.	Page 112,5.2.2.1 Integrated Command Control Platform	Page 112,5.2.2.1 Integrated Command Control Platform	5. The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	1640	Cisco Systems, Inc.	Page 115,5.2.2.1 Integrated Command Control Platform	Page 115,5.2.2.1 Integrated Command Control Platform	48 Adapter studio must have capability to consume data from multiple sources with different communications such as web services, Web Sockets, FTP, Fileserver, MQTT, real-time streams, etc.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	1641	Cisco Systems, Inc.	Page 252,5.4.3.5 System Management Requirements	Page 252,5.4.3.5 System Management Requirements	i) The system shall be compiled with automated File Transfer Protocol (FTP) software; this software will push generated speeding incident files to the central control room automatically as they are generated. The software will use the FTP protocol.	It is important that various interactions in the smart city processes necessitate a lot of file transfers. Also it is important that secure channels to send or receive files through HTTPS, SFTP methods. Are you looking for such functionalities? Please Confirm	Tender conditions shall prevail
Vol.2	1642	Cisco Systems, Inc.	New Request	New Request		The OEM should provide the specific solution designing & Core implementation (OEM Low Level Design, DC Core Implementation) support to make sure that their supplied technology & products work as per the design objectives.	Tender conditions shall prevail
Vol.2	1643	Cisco Systems, Inc.	New Request	New Request		Provide an Operations Support Manager for every year from OEM who is familiar with (Customer) business, processes, and technical support history to continually monitor customer technical support needs, track every open service request, and make sure that IT resources, both at OEM and within Customer organization, are aligned appropriately to resolve issues quickly and completely.	Tender conditions shall prevail
Vol.2	1644	Inspira Enterprise	RFP VOL II Section 5.1.3.8 Online UPS for Field Locations	87	New Clause	Please mention VAH of the UPS system, as load may different for different make equipment. Please mention VAH for 1 KVA 30 MIN is 936	Tender conditions shall prevail
Vol.2	1645	Inspira Enterprise	RFP VOL II Section 5.1.3.8 Online UPS for Field Locations	87	5.1.3.8 Online UPS for Field Locations	Please mention the Warranty terms as it seen diifernt in RFP for different Line Item	Tender conditions shall prevail
Vol.2	1646	Inspira Enterprise	RFP VOL II Section 5.2.12 UPS 50 KVA at ICC	148	5.2.12 UPS 50 KVA at ICC	Please mention VAH of the UPS system, as load may different for different make equipment. Please mention VAH for 50 KVA 60 MIN is 76800VAH	Tender conditions shall prevail
Vol.2	1647	Inspira Enterprise	RFP VOL II Section 5.2.12 UPS 50 KVA at ICC	148	5.2.12 UPS 50 KVA at ICC	Please mention the Warranty terms as it seen diifernt in RFP for different Line Item	Tender conditions shall prevail
Vol.2	1648	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	126	2. Only those OEM's would be considered who also manufacture the Projection/Optical engine as well apart from the whole cube. Companies claiming to be OEM's but not manufacturing their own Projection/Optical engines shall not be considered	Request you to mention only those OEM's would be considered who manufacture the video wall Cubes This is favouring to specific OEM's only; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Only those OEM's would be considered who also manufacture the Projection/Optical engine/video wall cubes as well apart from the whole cube. Companies claiming to be OEM's but not manufacturing their own Projection/Optical engines shall not be considered
Vol.2	1649	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	127	3. Technology: DLP Based cube on video wall with base stand .The network-based control room solution should consist IP enabled DLP based Video wall cubes. They should be able to show signals over IP without the need of separate decoders. Each of these Video wall cubes should be able to display up to 60 sources per display	Requesting you to kindly consider showing signals over IP with the need of separate decoders Which provides you Modular architecture, multiple redundancy level and no complete blackout of video wall for 24 x 7 video wall applications	Better specifications are acceptable

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Vol.2	1650	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	127	6. Total Resolution: Minimum resolution of video wall 15000 x 6000	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	1651	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	127	14. Screen to Screen Gap: 0.2 mm (or less) @ temperatures between 20~25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm Requesting you to change the screen to screen gap 0.6 or less @temperatures between 20 ~ 25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm
Vol.2	1652	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	128	16. Control BD Input terminals: Input: 1 x Digital DVI, Input: 1 x HDMI, Input: 1 x Display Port, Input: 1 x analog Dsub-15,	To meet RFP requirements for Video Wall solution 1x Digital DVI which is sufficient Request you to change Control BD Input Terminals to 1x Digital DVI Request you to delete it as this functionality is of no use	1 x Digital DVI or as per OEM architecture
Vol.2	1653	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	128	17. Power Supply: Dual Redundant and Hot Swappable Power Supply. This should be built inside the cube for fail safe operation. Power supplies extended or kept outside the cube are not acceptable	As Power is supplied through UPS which itself is redundant in nature Supplying Cube with dual Redundant power supply will be of no Major use & will increase the Prices .Request you to delete the same	Clause deleted
Vol.2	1654	Inspira Enterprise	RFP VOL II Section 5.2.2.2 Video-Wall Specifications	128	19. Cube Depth: Total Cube depth including screen module should be less than 500 mm or lower	Request you to change cube depth as per OEM architecture This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Cube Depth: Total Cube depth including screen module should as per OEM architecture
Vol.2	1655	Inspira Enterprise	RFP VOL II Section 5.2.2.3 Specifications of Video-Wall Controllers	129	12. Power on Ethernet: Support POE	Request you to delete it as this functionality is of no use POE is not necessarily to meet the functionality of video wall solution	Clause deleted
Vol.2	1656	Inspira Enterprise	RFP VOL II Section 5.2.2.4 Specifications of Display Wall Management Software	130	10. Framework: Video wall cube should be use Python- Django framework for monitoring the system	Request you to change the framework to video wall cube should be use JAVA framework for monitoring system Every OEM has its own software framework to meet the video wall requirements This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Framework: Video wall cube should be use JAVA framework for monitoring the system
Vol.2	1657	Inspira Enterprise	RFP VOL II Section 5.2.2.5 Specifications of Video-Wall Server	131	7. OS: Windows Server 2008/2012/2016 (64 bits)	Request to add Linux in OS also; linux is much secure and stable than windows with no blue crash issue which is general issue in windows OS.	7. OS: Windows Server 2008/2012/2016 (64 bits) or Linux based as per OEM architecture
Vol.2	1658	Inspira Enterprise	RFP VOL II Section 5.2.2.5 Specifications of Video-Wall Server	131	9. Others: A. System should also be capable of decoding 50 Full HD streams @30fps and displaying these on the screen simultaneously	As per RFP it is already covered in point no. 3 in video wall specifications: Each of these Video wall cubes should be able to display up to 60 sources per display Request you to delete this point	Video wall cubes should be able to display up to 60 sources per display
Vol.2	1659	Inspira Enterprise	RFP VOL II Section 5.2.2.5 Specifications of Video-Wall Server	131	9. Others: B. System should also be capable to show high resolution graphic of at least 19000 x 6000 resolution on the screen through this controller system	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	1660	Inspira Enterprise	RFP VOL II Section 5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	197	License Management System: The proposed solution should have a centralized license management system with capability to lease licenses to different appliances from a central pool	License Server is required only when NAC is deployment in the distributed architecture. For Centralised deployment, i.e. DC/DR it is not required. Hence request you to make this point optional by changing the point to The proposed solution should support a centralized license management system functionality with capability to lease licenses to different appliances from a central pool	Tender conditiond prevails

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Vol.2	1661	Inspira Enterprise	RFP VOL II Section 5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	197	Platform Hardware: The proposed solution must support at least 2 x 10/100/1000 GB Ethernet Copper Traffic Ports	Since NAC is an out-of-band solution, it does not required high Bandwidth interface. Hence, kindly replace GB with MB and change this point to The proposed solution must support at least 2 x 10/100/1000 MB Ethernet Copper Traffic Ports	Refer to Addendum XII
Vol.2	1662	Inspira Enterprise	RFP VOL II Section 5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	197	Platform Hardware: The proposed solution must support a 1 x 10/100/100 GB Dedicated Management port	Management port is used only for device administration and it does not require high bandwidth interface. Hence, kindly replace GB with MB and change this point to The proposed solution must support a 1 x 10/100/100 MB Dedicated Management port	Refer to Addendum XII
Vol.2	1663	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	89	Video management server, on which the VMS is hosted upon, shall run seamlessly in the background to manage connections, access and storage.	Video management server, on Linux operating system on which the VMS is hosted upon, shall run seamlessly in the background to manage connections, access and storage	Refer to Addendum IV
Vol.2	1664	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	90	4. All the offered VMS and cameras shall have ONVIF compliance.	All the offered VMS and cameras shall have ONVIF compliance. VMS OEM must be ONVIF member with profile S, G and T complied	Refer to Addendum IV
Vol.2	1665	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	90	7. The VMS shall be enabled for integration with any external Video Analytics Systems	The VMS shall have integrated Video Analytics Systems to optimise server hardware requirement.	Refer to Addendum IV
Vol.2	1666	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	91	16. All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of high resolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for live and archive viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of high- resolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	Refer to Addendum IV
Vol.2	1667	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	92	26. The VMS shall support retrieving data from edge storage. Thus, when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage.	The VMS shall support retrieving data from edge storage. Thus, when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage. Therefore the camera and VMS must be ONVIF profile G compliant	Refer to Addendum IV
Vol.2	1668	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	93	36. VMS/ICCC shall support integration with the ANPR application.	VMS must have integrated ANPR application	Refer to Addendum IV
Vol.2	1669	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)	93	37. VMS shall support integration with other online and offline video analytic applications	VMS must have integrated online and offline video analytic applications	Refer to Addendum IV
Vol.2	1670	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	The VMS OEM must have development centre in India for last 10 years. Incorporation certificate must be attached.	Refer to Addendum IV
Vol.2	1671	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	The VMS OEM must submit minimum 10 nos of satisfactorily running certificate from any Govt/Railways/Airports/Police department.	Refer to Addendum IV

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Vol.2	1672	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	The system should allow the user to mark any important section of video as do not delete. This portion will need administration confirmation to delete in future	Refer to Addendum IV
Vol.2	1673	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	It should be possible to view the activities on the operator screen from the supervisor/administrator screen, including all the windows open on the operator screen. It should also be possible to record the screen if required	Refer to Addendum IV
Vol.2	1674	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	The VMS should support layered maps using standard picture files, GIS maps and online maps such as Google, Bing, Open street maps. It should be possible to drag and drop the cameras on the map for easy navigation	Refer to Addendum IV
Vol.2	1675	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	The VMS should show event notification from the cameras on the map itself. The operator should be able to click on the event notification of a particular camera on the map and the VMS should open the event window on the operator screen.	Refer to Addendum IV
Vol.2	1676	Inspira Enterprise	RFP VOL II Section 5.1.4 Video Management System (VMS)		New Clause	The VMS shall be Codec, Operating systems (Linux and Windows and mix platform) and IP camera agnostic such that it can support devices that are not supplied by the manufacturer/developer of the VMS software and Codec hardware	Refer to Addendum IV
Vol.2	1677	Inspira Enterprise	RFP VOL II Section 5.1.4.2 VMS General	94	7. b) System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Speed of the moving object v. Defined area entry/appearance and zone exit/disappearance	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Defined area entry/appearance and zone exit/disappearance	Refer to Addendum IV
Vol.2	1678	Inspira Enterprise	RFP VOL II Section 5.1.4.2 VMS General	94	6. Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection	Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection h. Fire detection i. Smoke detection j. Face Capture k. Event against face with No Mask l. Event against not maintaining minimum guided social distancing m. Crowd detection	Refer to Addendum IV
Vol.2	1679	Inspira Enterprise	RFP VOL II Section 5.1.4.2 VMS General	95	12. Recorded video viewing: The system shall allow the viewing of recorded video from any camera on the system at whatever rate the camera was recorded.	The system shall allow the viewing of recorded video from any camera on the system at whatever rate the camera was recorded. It must be possible to view live and recorded view of many cameras simultaneously in a single GUI grid	Refer to Addendum IV
Vol.2	1680	Inspira Enterprise	RFP VOL II Section 5.1.4.2 VMS General	95	Point 13 - Storage of video: The system shall store online thirty (30) days of video for all cameras. Balance 60 days will be on low cost secondary storage (compressed form) or tape library	Request to remove the tape Library option. Although as vendor - we can provide the Tape library option however considering the long-term life-cycle, Data consistency and available - low cost secondary storage would be preferred option. Requesting to remove Tape Library option. Please confirm?	Refer to Addendum IV
Vol.2	1681	Inspira Enterprise	RFP VOL II Section 5.1.4.3 VMS GUI Capabilities	95	1. The user interface shall be via a GUI providing multiple video streams simultaneously on multiple monitors.	The user interface shall be via a GUI providing video streams simultaneously on multiple monitors. Thus VMS must be capable to handle up to 4 monitors with out video wall controller.	Refer to Addendum IV

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1682	Inspira Enterprise	RFP VOL II Section 5.1.4.3 VMS GUI Capabilities	96	4. The GUI shall conform to standard Windows conventions	The GUI shall conform to standard Windows conventions. The client software must be possible to run on windows when server software is on Linux operating system for security issue.	Refer to Addendum IV
Vol.2	1683	Inspira Enterprise	RFP VOL II Section 5.1.4.11 VMS Integration Requirements	102	1. VMS shall be integrated within a consolidated GUI that would include other command control Center systems as well. All events, activations and alarms that occur with the VMS and its sub systems will interact seamlessly between the command and control center sub systems as required	VMS shall be integrated seamlessly with command control Center systems as well. All events, activations and alarms that occur with the VMS and its sub systems will interact seamlessly between the command and control center sub systems as required	Refer to Addendum IV
Vol.2	1684	Inspira Enterprise	RFP VOL II Section 5.1.4.11 VMS Integration Requirements	103	6. If an SDK solution / Object model is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / Object model shall be supplied with all required supporting software to allow the integration of the system with new devices and systems.	If an SDK solution / API is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / API shall be supplied with all required supporting software to allow the integration of the system with new devices and systems	Refer to Addendum IV
Vol.2	1685	Inspira Enterprise	RFP VOL II Section 5.1.4.11 VMS Integration Requirements	103	2. Either the OPC or the SDK or Object Model shall manage the interface between the VMS, GUI and the other City Management systems as required.	VMS must have open API for any integration with any systems.	Refer to Addendum IV
Vol.2	1686	Inspira Enterprise	RFP VOL II Section 5.1.4.11 VMS Integration Requirements	103	3. The OPC or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vender chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.	The API or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vender chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.	Refer to Addendum IV
Vol.2	1687	Inspira Enterprise	RFP VOL II Section 5.1.4.11 VMS Integration Requirements	103	5. If an OPC interface cannot be provided, an alternative solution shall be provided for this data using a standard open protocol and confirmation as to how this shall be implemented shall be provided in the technical proposal return	If an API interface cannot be provided, an alternative solution shall be provided for this data using a standard open protocol and confirmation as to how this shall be implemented shall be provided in the technical proposal return	Refer to Addendum IV
Vol.2	1688	Inspira Enterprise	RFP VOL II Section 5.1.4.12 VMS System Size	103	1. The VMS shall enable handling of up to at least 10,000 cameras for future scalability as may be required at additional cost of camera license.	The VMS shall enable handling unlimited cameras for future scalability as may be required at additional cost of camera license	Refer to Addendum IV
Vol.2	1689	Inspira Enterprise	RFP VOL II Section 5.1.4.12 VMS System Size	103	2. The VMS OEM must have at least one project experience of minimum 2000 cameras in India. (PO copy required to be submitted).	The VMS OEM must have at least one project experience of minimum 10000 cameras in India in a single project. (PO copy required to be submitted).	Refer to Addendum IV
Vol.2	1690	Inspira Enterprise	RFP VOL II Section 5.1.4.14 a) Video Analytics Features:	106	6. VA should allow multiple instances of Client Viewer in a single workstation	VA should allow multiple instances of Client Viewer in a single workstation in VMS GUI	Refer to Addendum IV
Vol.2	1691	Inspira Enterprise	RFP VOL II Section 5.1.4.14 a) Video Analytics Features:	106	7. VA should be able to utilize multiple monitors connected to the workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)	VA should be able to utilize multiple monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)	Refer to Addendum IV
Vol.2	1692	Inspira Enterprise	RFP VOL II Section 5.1.4.14 a) Video Analytics Features:	106	1. VA should support multiple Video Analytics servers running on different machines.	VA should support multiple Video Analytics servers running on different machines. It must be possible to run VMS and analytics in same server for hardware optimisation	Refer to Addendum IV

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Vol.2	1693	Inspira Enterprise	RFP VOL II Section 5.1.3.1 Dome CCTV Cameras	72	8. Video Resolution: 2MP- 1920x 1080p	Request you to change clause " Video Resolution : 5MP -2560x1920P, 2MP is getting phase out by OEM due to availability of better MP. So Request you to consider it .	Refer to Addendum IV
Vol.2	1694	Inspira Enterprise	RFP VOL II Section 5.1.3.1 Dome CCTV Cameras	73	28. OEM Criteria: OEM without any JV/Distributor Should have their own registered office in India since Last 7 years	Request you to consider to amend OEM Criteria : OEM without any JV/Distributor should have their own registered office in india since last 5 years alsoCCTV OEM must have experience of manufacturing of CCTV Products from last 5 years in India or 10 years for non-Indian OEM. The OEM of CCTV Equipment should be in surveillance business for at least 10(Ten) years as of 31st March 2020 and should have valid factory license.	Refer to Addendum XII
Vol.2	1695	Inspira Enterprise	RFP VOL II Section 5.1.3.1 Dome CCTV Cameras	73	28. OEM Criteria: OEM without any JV/ Distributor Should have their own service center in India since Last 7 years	Request you to consider to amend OEM Criteria: OEM without any JV/ Distributor Should have their own service center in India since Last 5 years	Refer to Addendum XII
Vol.2	1696	Inspira Enterprise	RFP VOL II Section 5.1.3.1 Dome CCTV Cameras	73	26. Certification: UL, EN, CE, FCC, RoHS,ONVIF profile S, G & T	Please Remove "ONVIF T" .It is specific to OEMs and ONVIF Profile S,G are widely accepted and available with all leading OEMs. Please consider it.	Refer to Addendum IV
Vol.2	1697	Inspira Enterprise	RFP VOL II Section 5.1.3.2 Fixed Bullet CCTV Cameras	74	4. Video Resolution: 2MP- 1920x 1080p	Request you to consider change clause " Video Resolution : 5MP - 2560x1920P, 2MP is getting phase out by OEM due to availability of better MP. So Request you to consider it .	Refer to Addendum IV
Vol.2	1698	Inspira Enterprise	RFP VOL II Section 5.1.3.2 Fixed Bullet CCTV Cameras	75	14. Multiple Streams: Quad stream	Request you to consider to change clause :-"Multiple Streams: Three stream" it is available with all leading OEMs, and Quad stream is specific to OEM and is restricting to participate to other OEMS .	Refer to Addendum IV
Vol.2	1699	Inspira Enterprise	RFP VOL II Section 5.1.3.2 Fixed Bullet CCTV Cameras	76	27. Certification: UL, EN, CE, FCC, RoHS,ONVIF profile S, G & T	Please Remove "ONVIF T" .It is specific to OEMs and ONVIF Profile S,G are widely accepted and available with all leading OEMs. Please consider it.	Refer to Addendum IV
Vol.2	1700	Inspira Enterprise	RFP VOL II Section 5.1.3.2 Fixed Bullet CCTV Cameras	77	29. OEM Criteria: OEM without any JV/Distributor Should have their own registered office in India since Last 7 years	Request you to consider to amend OEM Criteria : OEM without any JV/Distributor should have their own registered office in india since last 5 years alsoCCTV OEM must have experience of manufacturing of CCTV Products from last 5 years in India or 10 years for non-Indian OEM. The OEM of CCTV Equipment should be in surveillance business for at least 10(Ten) years as of 31st March 2020 and should have valid factory license.	Refer to Addendum XII
Vol.2	1701	Inspira Enterprise	RFP VOL II Section 5.1.3.2 Fixed Bullet CCTV Cameras	77	29. OEM Criteria: OEM without any JV/ Distributor Should have their own service center in India since Last 7 years	Request you to consider to amend OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 5 years	Refer to Addendum XII
Vol.2	1702	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	77	4. Video Resolution: 2MP- 1920x 1080p	Request you to consider change clause " Video Resolution : 4MP - 2560x1440P, 2MP is getting phase out by OEM due to availability of better MP. So Request you to consider it .	Refer to Addendum IV
Vol.2	1703	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	77	8. Frame Rate: 50/60 FPS at full resolutions	Request you to Consider to Change this clause "30fps @2560X1440 .It will give better image quality without affecting functionality of the systems	Refer to Addendum IV
Vol.2	1704	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	77	6. Iris: Automatic with manual override or P-Iris	Request you to consider to add DC -IRIS , because P-IRIS is not available in PTZ.	Refer to Addendum IV
Vol.2	1705	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	78	10. Lens: Auto-focus, 4.3 – 129 mm (-/+ 1mm) (corresponding to 30 X)	Request you to consider to change Lens : 6 -210 mm . It is available with all leading OEM in 4MP.	Refer to Addendum IV
Vol.2	1706	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	78	12. Minimum Illumination: Colour: 0.04 lux @ F 1.6, B/W: 0.00 lux (at 30 IRE, F 1.6) or better	Request you to consider to change this clause " Color 0.5Lux . The mentioned illumination restricting to participate other OEMs. This is available with all leading OEMS and will help to participate others OEM.	Refer to Addendum IV

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Vol.2	1707	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	79	26. Camera Analytics: Camera must have edge base analytics Viz: Enter / leavefield, Loitering, Line Crossing, follow route, Idle / removedobject, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera	Request you to consider to remove this clause - "Camera Analytics:-Camera must have edge base analytics Viz: Enter / leavefield, Loitering, Line Crossing, follow route, Idle / removedobject, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera because edge analytics does not work properly in PTZ due to continuous movement of camera. It is better work with VMS Software . Please consider it.	Refer to Addendum IV
Vol.2	1708	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	80	28. Operating conditions with IR: 20 °C to +60 °C	Request you to consider with IR :-20 °C to +50 °C. It is available with all leading OEMS. It is specific to OEM	Refer to Addendum IV
Vol.2	1709	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	80	32. Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	Please Remove "ONVIF T" .It is specific to OEMs and ONVIF Profile S,G are widely accepted and available with all leading OEMs. Please consider it.	Refer to Addendum IV
Vol.2	1710	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	80	34. OEM Criteria: OEM without any JV/Distributor Should have their own registered office in India since Last 7 years	Request you to consider to amend OEM Criteria : OEM without any JV/Distributor should have their own registered office in India since last 5 years also CCTV OEM must have experience of manufacturing of CCTV Products from last 5 years in India or 10 years for non-Indian OEM. The OEM of CCTV Equipment should be in surveillance business for at least 10(Ten) years as of 31st March 2020 and should have valid factory license.	Refer to Addendum XII
Vol.2	1711	Inspira Enterprise	RFP VOL II Section 5.1.3.3 PTZ CCTV Cameras	80	34. OEM Criteria: OEM without any JV/ Distributor Should have their own service center in India since Last 7 years	Request you to consider to amend OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 5 years	Refer to Addendum XII
Vol.2	1712	Inspira Enterprise	RFP VOL II Section 5.4.2.6 ANPR HW Requirements	244	6. Minimum Illumination: 0.001Lux @ (F1.2, AGC ON), 0.0014Lux @ (F1.4, AGC ON), 0 Lux at IR ON	Request you to consider to change this clause " Color 0.5Lux . The mentioned illumination restricting to participate other OEMs. This is available with all leading OEMS and will help to participate others OEM.	Refer to Addendum IV
Vol.2	1713	Inspira Enterprise	RFP VOL II Section 5.4.3.7 Speed Detection Camera Specifications	254	1. Image sensor and Effective Pixels (Resolution): 1" or higher, CMOS, Global Shutter, Minimum 9 MP, 4096(H) x 2160(V)	Request you to amend this clause "Image sensor 1/2" or better CMOS GLOBAL Shutter ,Minimum 3MP Camera . Because in 9MP Global shutter Camera is not available. So Please consider it.	Refer to Addendum IV
Vol.2	1714	Inspira Enterprise	RFP VOL II Section 5.4.3.7 Speed Detection Camera Specifications	254	4. Fixed Focal Length Lens: 25, 35, 50mm option to suit application. Lens must focus visible.	Request you to amend this clause 12-40 mm lens or better , which is meant for SVD & ANPR application .	Refer to Addendum IV
Vol.2	1715	Inspira Enterprise	RFP VOL II Section 5.4 COMPONENT 4 – INTEGRATED TRAFFIC MANAGEMENT SYSTEM (ITMS)	206	Additional Component: ITMS platform	Requesting you to kindly include the ITMS platform as well as it will eliminate the need of operating individual ITS components (such as ATCS, RLVD, ANPR, etc.) from individual applications. Police can also operate and manage from this platform.	Refer to Addendum IV
Vol.2	1716	Inspira Enterprise	RFP VOL II Section 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	208	J. "Composite Signal Control Strategy" application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	<u>Requesting you to change the clause to:</u> The dynamic traffic signal control algorithm having model based optimiser which are already implement in Indian conditions shall be used for optimizing the traffic signal timings. Justification: Model based optimisation is the advanced technology which will use the data available and generate more efficient outcomes with simulation & prediction tightly merged with it.	Refer to Addendum IV

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Vol.2	1717	Inspira Enterprise	RFP VOL II Section 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	208	G. Camera based vehicle detectors to assist operation of traffic signal controller and generate counts, demands and extensions for right-of-way for identifying optimal signal timings.	<p><u>Requesting you to modify the clause to:</u></p> <p>G. Thermal camera based vehicle detectors to assist operation of traffic signal controller and generate classified counts, demands and extensions for right-of-way for identifying optimal signal timings.</p> <p>Justification: The thermal detectors will work better considering Guwahati experience significant rains and fog.</p>	Refer to Addendum IV
Vol.2	1718	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p><u>Requesting you to kindly add the following clause :</u></p> <p>The ATCS system shall use Machine Learning based prediction modelling which shall have the ability to predict, forecast and smartly manage the traffic pattern at each junction over the next few minutes, hours or 3-5 days and just in the current real time on the central ATCS server. The models shall be calibrated once the system stabilizes after a duration of 2-3 months after the deployment. The prediction function shall use a network model resulting in consistent flows across a group of junctions.</p> <p>Justification: ML will improve optimisation efficiency of the system and help devising better strategies for controlling traffic by forecasting demands.</p>	Refer to Addendum IV
Vol.2	1719	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p>The proposed ATCS application shall have capabilities to optimise traffic signals on the basis of online travel time data such as Google, TomTom as well. The ATCS system shall fuse data from all available sources such as ANPR, Google, Detectors, etc. and use it for optimisation. The network model shall be calibrated by using multiple data sets.</p>	Refer to Addendum IV
Vol.2	1720	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p><u>Requesting you to add this clause:</u></p> <p>Optimization mode - strategic: The system shall have a short term traffic state prediction model which continually estimates the state of the network, in terms of traffic flows and travel times. The traffic flows and travel times are to be input into an offline microscopic traffic flow simulation model. If significant changes in the network state are observed, traffic engineers shall be able to run simulation models to perform what-if analysis on pre-defined traffic management strategies. The controller shall send the classified counts to the ATCS application in order to enable this functionality.</p> <p>Justification: The model based optimisation would result in better system efficiency as compare to the heuristic one.</p>	Refer to Addendum IV
Vol.2	1721	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p><u>Requesting you to kindly add the following clause:</u></p> <p>Simulation Model: The adaptive traffic control system shall be provided with a simulation model based real time traffic flow modelling capability with the capacity to calculate traffic flows, OD movements, and queues and turning movement along entire primary road transport network in the defined study area covering the ATCS junctions and beyond. -The simulation software shall assist evaluating potential traffic control strategies in case of any anomalies and identify the appropriate strategies for the traffic control. - Calibrated traffic simulation models for AM peak, PM peak, inter-peak and off-peak for weekdays and peak and off-peak for Saturday & Sundays covering all the ATCS junctions shall be provided -Shall have the ability to predict, forecast and estimate the traffic pattern across the signals over the near-term future (e.g T+5, T+10, T+15, T+30 mins ... T + 1 hour). It shall also use machine learning for better accuracies.</p> <p>Justification: New clause as per city requirements. This would enable the enhanced system to use machine learning based prediction along with the validations.</p>	Refer to Addendum IV

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Vol.2	1722	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p><u>Requesting you to kindly add the following clause :</u></p> <p>Even if one or multiple cameras fail, information from nearby signals, from the cameras that continue to function (and there is some overlap), and from previously generated statistics is used to continue adaptivity, till the fault is corrected</p> <p>Justification: For better performance</p>	Tender conditions shall prevail
Vol.2	1723	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p><u>Requesting you to add this clause:</u></p> <p>The system shall be provided with network model based optimiser which uses a combination of a network-wide online traffic simulation model and an AI-based optimisation engine to determine optimal signal timings in order to minimise the overall delay incurred by vehicles and to maximise vehicle throughput.</p> <p>Justification: Model based optimisation is the most advanced kind of optimisation which looks at the entire network holistically and drive best possible outcomes for the system.</p>	Refer to Addendum IV
Vol.2	1724	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	210	Additional Clause:	<p>Gating: A few junctions in a road network are critical due to simultaneous high demand for conflicting traffic streams. Congestion at these junctions is higher than other junctions where high demand exists only for fewer traffic streams and the available green time can be redistributed to mitigate congestion to some extent. This leads to a severe queue build up at critical junctions. Gating is a strategy that artificially reduces the capacity of traffic signals at junctions upstream of the critical junction using traffic signals such that that queues are re-distributed across multiple junctions thereby reducing the total delay across junctions for critical traffic streams. The proposed ATCS system shall have the capability to optimise signal timings at a group of junctions incorporating gating. Specifically, the user shall be able to select the upstream junctions where the queues are to be relocated based on available storage capacity and the system should be able to determine optimal signal timings at those junctions to implement gating.</p> <p>Justification: Gating will assist in optimizing traffic at critical junctions & will lead to better network performance</p>	Refer to Addendum IV
Vol.2	1725	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	212 - 213	Serial no.s are missing	Sl. No 18, 30, 32, 33, clause is missing or left behind intentionally?	Refer to Addendum IV
Vol.2	1726	Inspira Enterprise	RFP VOL II Section 5.4.1.3 ATSC Software Application	212	29. It shall be possible to interface the ATSC with a popular microscopic traffic flow simulation software for pre and post implementation analysis and study of the proposed ATSC control strategy	<p><u>Request you to modify the clause to:</u></p> <p>The application shall interface with a popular microscopic traffic flow simulation software for pre and post implementation analysis which shall be based on real time traffic flow modelling capability with the capacity to calculate traffic flows, OD movements and turning movements along entire primary road transport network. In addition, the simulation should interface with an offline instance of the ATCS system in order to carry out what-if analyses of traffic control strategies. The system should be able to provide an estimate of a Performance Index of the chosen strategy versus alternative strategies. The simulation model along with ATCS shall thus assist the traffic engineers / police to identify the best possible strategy in planning for any unusual / unprecedented event.</p> <p>Justification: The online simulation model will assist traffic police/operators to visualise the on-ground issues better and act pro-actively by evaluating multiple strategies.</p>	Refer to Addendum IV

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Vol.2	1727	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Vehicle Actuation with Fixed Cycle Length:	219	Vehicle Actuation with Fixed Cycle Length: 11) In this stage, the traffic signal controller shall execute stage timing as per demand from video-based vehicle detector within the constraints of Minimum Green, Maximum Green running period for the stage and Cycle time shall be maintained constant during a given time slot.	Requesting you to modify this clause to: In this stage, the traffic signal controller shall execute stage timing as per demand from thermal-based vehicle detector within the constraints of Minimum Green, Maximum Green running period for the stage and Cycle time shall be maintained constant during a given time slot.	Tender conditions shall prevail
Vol.2	1728	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	221	d) 32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB.	<u>Requesting you to change the clause to:</u> d) 64bit processor with 16GB or more nonvolatile storage, 2 GB or more as RAM, with a provision of additional storage of minimum 32 GB via sd card/USB. Justification: The more RAM and memory will assist in processing the detailed traffic data generated by detectors and perform advanced optimisation such as queue based optimisation, running local algorithms such as bus priority and compensation, etc.	Refer to Addendum IV
Vol.2	1729	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	221	g) Controller clock frequency of min of 100MHz	<u>Requesting you to change the clause to:</u> g) Controller clock frequency of min of 800MHz Justification: This would enable to controller to run faster and process more data and complex logic quickly resulting in enabling of AI based optimisation	Refer to Addendum IV
Vol.2	1730	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	222	15. Standards compliance: EN 50556/AS/NZS	Requesting you to kindly remove this clause Justification: These are European certifications and no Indian traffic signal manufacturer has this certification. Having this requirement will mean that only foreign technology qualifies for this tender. Given the Central Government's "Atma Nirbhar" policy, this clause should be removed so that reputed Indian manufacturers and OEMs become eligible.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,
Vol.2	1731	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	222	15. Standards compliance: ISO 9001:1994 for design & servicing.	<u>Requesting you to add this clause:</u> ISO 9001:1994 or ISO 9001:2015 shall be allowed Justification: Latest ISO certificates shall also be accepted.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,
Vol.2	1732	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	222	15. Standards compliance: EN 12675/IEC 60068 for functional safety,	Requesting you to kindly remove this clause Justification: These are European certifications and no Indian traffic signal manufacturer has this certification. Having this requirement will mean that only foreign technology qualifies for this tender. Given the Central Government's "Atma Nirbhar" policy, this clause should be removed so that reputed Indian manufacturers and OEMs become eligible.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,

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Vol.2	1733	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	222	15. Standards compliance: # EN 55024:2010 & AS/NZS 60950/BS EN # 61000-3-3 or equivalent for voltage fluctuations, or equivalent	Requesting you to kindly remove this clause Justification: These are European certifications and no Indian traffic signal manufacturer has this certification. Having this requirement will mean that only foreign technology qualifies for this tender. Given the Central Government's "Atma Nirbhar" policy, this clause should be removed so that reputed Indian manufacturers and OEMs become eligible.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675 for functional safety,
Vol.2	1734	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	222	17. Number of signal head outputs: minimum 72 or as required	Requesting you to kindly modify the clause to: Number of signal head outputs: minimum 32 and extendable upto 72 (if needed) Justification: For most of the junctions upto even 5 arms don't need more than 32 signal head outputs, however we would still propose you to have 72 as an option to accommodate BRTS signals if introduced in future. Having more outputs than that is unnecessarily wastage of the funds.	Refer to Addendum IV
Vol.2	1735	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	222	20. Number of detector inputs: min 16	Requesting you to kindly modify the clause to: Communication with detector: Shall be able to take detailed traffic data from detectors via ethernet over TCP/IP or using RS232 or RS484 port. Justification: The I/O based detection input is an obsolete way of taking data from detectors. It can only support vehicle presence data however the advanced detectors suggested in the RFP will be able to share the detailed traffic data via ethernet or other modern modes of communication.	Refer to Addendum IV
Vol.2	1736	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	223	24. Controller clock frequency of min of 100MHz.	Requesting you to kindly modify the clause to: Controller clock frequency of min of 800MHz Justification: This would enable to controller to run faster and process more data and complex logic quickly resulting in enabling of AI based optimisation"	Refer to Addendum IV
Vol.2	1737	Inspira Enterprise	RFP VOL II Section 5.4.1.4 Traffic Signal Controller Technical Specifications of Traffic Controller	223	27. Temperature range: 0 – 70 deg. C	Requesting you to kindly modify the clause to: Temperature range: 0 – 60 deg. C Justification: The temperature in Guwahati are in these range itself. Hence the solution shall be able to work in local conditions.	Refer to Addendum IV
Vol.2	1738	Inspira Enterprise	RFP VOL II Section 5.4.1.5 Camera /Thermal Vehicle Detector	223	5.4.1.5 Camera /Thermal Vehicle Detector	Requesting you to modify this clause to: Thermal Vehicle Detector Justification: The thermal detectors will work better considering Guwahati experience significant rains and fog.	Refer to Addendum VI
Vol.2	1739	Inspira Enterprise	RFP VOL II Section 5.4.1.5 Camera /Thermal Vehicle Detector	223	4. Vehicle Detector camera should look at approaching traffic and should work in FOG and dirt on sensor should not impact performance	Requesting you to modify this clause to: Thermal Vehicle Detector should look at approaching traffic and should work in FOG and dirt on sensor should not impact performance Justification: The thermal detectors will work better considering Guwahati experience significant rains and fog. Video detectors efficiencies drop significantly during rain and fog & in nights.	Refer to Addendum VI

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Vol.2	1740	Inspira Enterprise	RFP VOL II Section 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	225	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	<p><u>Requesting you to modify this clause to:</u></p> <p>5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Thermal</p> <p>Justification: The thermal detectors will work better considering Guwahati experience significant rains and fog. Video detectors efficiencies drop significantly during rain and fog & in nights.</p>	Refer to Addendum VI
Vol.2	1741	Inspira Enterprise	RFP VOL II Section 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	225	7. The ATCC System shall use video based non-intrusive technology for counting and classifying the vehicles in a real-time under live traffic conditions.	<p><u>Requesting you to modify this clause to:</u></p> <p>The ATCC System shall use thermal based non-intrusive technology for counting and classifying the vehicles in a real-time under live traffic conditions.</p> <p>Justification: he thermal detectors will work better considering Guwahati experience significant rains and fog.</p>	Refer to Addendum VI
Vol.2	1742	Inspira Enterprise	RFP VOL II Section 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	226	18. ATCC shall be able to process simultaneously at least 100 vehicles and parallel passages of the vehicles at that location at a given point of time and provide queue length estimation for minimum 85 meters	<p><u>Requesting you to modify this clause to:</u></p> <p>ATCC shall be able to process simultaneously at least 100 vehicles and parallel passages of the vehicles at that location at a given point of time and provide queue length estimation for minimum 65-70 meters</p> <p>Justification: The typical queues at junction are within 40-50 meters and information of that is sufficient for optimisation. The longer queue length estimates will not be accurate due to occlusion and other visual issues. It also goes against the below clause of queue lengths of 50m.</p>	Refer to Addendum VI
Vol.2	1743	Inspira Enterprise	RFP VOL II Section 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	P. The pelican signals shall be installed on two diagonally opposite corners of the Zebra Crossing and shall be supported with facilities for the pedestrians to actuate traffic signal control.	There is no location specified for pelican signals separately. Neither are they included in BoQ or pirce bid. Requesting you to clarify whether they are in scope or not. If yes then please define the locations along with associated quantities.	'P' Clause stands deleted
Vol.2	1744	Inspira Enterprise	RFP VOL II Section 12.7 Bill of Material (BOM) Summary SI No 1.2.14	395	Off Line Simulation Solution	<p><u>Requesting you to kindly modify this clause:</u></p> <p>Offline and online simulation solution</p> <p>Justification: The online simulation would enable model based optimiser and enhance the system performance.</p>	Refer to Addendum IV
Vol.2	1745	Inspira Enterprise	RFP VOL II Section 5.3.9 SIEM solution	192	22. Bidder should propose separate hardware for SIEM solution.	<p>Please confirm if purpose built Appliance with guranteed performance is required or software based solution is OK ?</p> <p>Justification: It should be dedicated appliance-based architecture to ensure OEM has ownership of performance and overall hardware is not undersized by SI/bidder to reduce cost and later causing performance issues.</p>	SIEM solution should be dedicated appliance based or software based. In case of software based solution Bidders should include separate dedicated hardware in their proposed SIEM solution meeting the warranty requirement. Details of which should be mentioned in the bill of material.
Vol.2	1746	Inspira Enterprise	RFP VOL II Section 5.3.9 SIEM solution	190	3. SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	<p>In case logs and Packet solution will be from different OEM, it will lead to challenge of integration and delay in detecting of nation state attacks? Please confirm if its OK to go with the above solution.</p> <p>Justification: SIEM for logs and packets must be from same OEM otherwise the correlation engine will not support logs and packet correlation.. Same console will only be link/UI based to show IP search etc.. but will not provide any correlation capability.</p>	SIEM for Logs and deep packet inspection can be from same or different OEM.

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Vol.2	1747	Inspira Enterprise	RFP VOL II Section 5.3.9 SIEM solution	191	10. A solution should support minimum 10,000 EPS and scalable up to 20,000 EPS.	Please confirm that scalability of 20,000 EPS should be at no additional cost to GSCL. Also confirm capacity for packet solution? Justification: SIEM for logs and packets is sized at EPS and throughput rate. Suggest starting with 10,000 and 1Gbps which can be scaled to 20,000 EPS on the same hardware without any additional license requirement to meet the future needs. Onboard storage provides capacity for storing the required logs and packets.	Tender conditions shall prevail
Vol.2	1748	Inspira Enterprise	RFP VOL II Section 5.3.9 SIEM solution	191	13. The solution should be storing both raw logs as well as normalized logs. The same should be made available for analysis and reporting. The proposed solution should be sized to provide both raw logs and normalized logs with minimum 20 TB of storage.	Please suggest if online storage for a minimum period of 1 year is required or not? Also please clarify the storage should be on board for better performance and faster retrieval Justification: SIEM storage and appliance must be provided and managed by OEM so that SI's/bidder do not undersize the solution by compression, slow drives, and provide less storage. Minimum 100 TB storage should be provisioned. Min 1-year log storage is best practice from regulatory and compliance stand points.	Tender conditions shall prevail
Vol.2	1749	Inspira Enterprise	RFP VOL II Section 5.3.5 Intranet Firewall with IPS.	180	Point No. 1.7. No limitation for client connecting using SSL VPN	No Solution can support unlimited parameters for any performance as every hardware has an upper limit to support a maximum capacity. So requesting to relax this clause as "Proposed solution should provide 10000 SSL VPN Client License from day One"	The device should support 500 SSL VPN clients from day-1
Vol.2	1750	Inspira Enterprise	RFP VOL II Section 5.3.5 Intranet Firewall with IPS. Platform Architecture	181	Point No. 2.2. The appliance must not have reported a backdoor vulnerability in OS in past five years	Requesting to relax this clause as below for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports. "The appliance should have not reported a backdoor vulnerability in OS in past three years, or if reported, then the patch or mitigation should be available on the publicly available site of the vendor".	Clause deleted
Vol.2	1751	Inspira Enterprise	RFP VOL II Section 5.3.5 Intranet Firewall with IPS. Platform Architecture	181	Point No. 2.5. The firewall shall not impose restriction on the numbers of policies or rules exist on the system.	No Solution can support unlimited parameters for any performance as every hardware has an upper limit to support a maximum capacity. So requesting to relax this clause as "Proposed firewall should support minimum 10000 individual policies or rules from day One"	Clause Deleted
Vol.2	1752	Inspira Enterprise	RFP VOL II Section 5.3.6 Next Generation Firewall	185	Point No. 19. The solution must be capable of passively gathering information about network hosts and their activities, such as operating system, services, open ports, client applications, and vulnerabilities, to assist with multiple activities, such as intrusion event data correlation, elimination of false positives, and policy compliance.	The required functionality is a feature set of Endpoint Vulnerability Scanning or HIPS solution, but not of a NGFW. Moreover this feature set is vendor specific. So requesting to kindly remove this clause for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports.	Deleted
Vol.2	1753	Inspira Enterprise	RFP VOL II Section 5.3.6 Next Generation Firewall	185	Point No. 23. The solution must provide a full-featured NBA capability to detect threats emerging from inside the network (i.e. ones that have not passed through a perimeter IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines.	The required functionality is a feature set of dedicated NBA solution, but not of a NGFW. Moreover this feature set is vendor specific. So requesting to kindly remove this clause for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports.	Clause deleted
Vol.2	1754	Inspira Enterprise	RFP VOL II Section 5.3.6 Next Generation Firewall	185	Point No. 24. The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	The required functionality is a feature set of dedicated NBA solution, but not of a NGFW. Moreover this feature set is vendor specific. So requesting to kindly remove this clause for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports.	Clause deleted
Vol.2	1755	Inspira Enterprise	RFP VOL II Section 5.3.6 Next Generation Firewall	186	Point No. 32. The management platform must be capable of integrating third party vulnerability information into threat policy adjustment routines and automated tuning workflows	This feature set is vendor specific. So requesting to kindly remove this clause for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports.	Clause deleted
Vol.2	1756	Inspira Enterprise	RFP VOL II Section 5.3.8 Load Balancer with Web Application Firewall	188	1. It should be dedicated Appliance based solution with purpose-build hardware and the solution should not be a part of Router or UTM or NGFW.	For scalability and security we request to amend the clause as - " It should be dedicated Appliance based solution with purpose-build hardware and the solution should not be a part of Router or UTM or NGFW. It must have capability to host 3rd party and open source network functions like Linux CentOS, Ubuntu & others on same appliance	Tender conditions shall prevail

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Vol.2	1757	Inspira Enterprise	RFP VOL II Section 5.3.8 Load Balancer with Web Application Firewall	188-189	5. Should support inbound/outbound load balancing, server load balancing and SSL offloading	For inbound load balancing DNS feature is must. Also HA parameter is missing. We request to amend the clause as - " Should support inbound/outbound load balancing, server load balancing and SSL offloading. Solution should support HA configurations using standard VRRP protocol. It should be capable of handling complete Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc."	Tender conditions shall prevail
Vol.2	1758	Inspira Enterprise	RFP VOL II Section 5.3.8 Load Balancer with Web Application Firewall	189	11. Web Application Firewall - Handle OWASP Security Attack Classification, WAF should support for IPv4 and IPv6 traffic, Support DNSSEC functionality	For better surface security we request to amend the clause as "Web Application Firewall - Handle OWASP Security Attack Classification, WAF should support for IPv4 and IPv6 traffic, Support DNSSEC functionality. Proposed WAF module should be from different OEM than Firewalls and Load Balancers for better surface security"	Tender conditions shall prevail
Vol.2	1759	Inspira Enterprise	RFP VOL II Section 5.2.11.1 IP Phones for ICCC Display	140	2 line or more, Colour display for viewing features like messages, directory, Video	Does the requirement is for Video Phone as the specs mentioned video,If video phone not required kindly remove the Video from specs.	Tender conditions shall prevail
Vol.2	1760	Inspira Enterprise	RFP VOL II Section 5.2.11.1 IP Phones for ICCC Integral switch	140	10/100 mbps for a direct connection to a10/100 BASE-T Ethernet network through an RJ45 interface	As the desktop/laptop gets the network connectivity from Phone so the phone should support 10/100/100 mbps switch. Kindly Change the connection speed from 10/100 mbps to 10/100/1000 mbps	10/100/1000 mbps for a direct connection to a10/100/1000 BASE-T Ethernet network through an RJ45 interface
Vol.2	1761	Inspira Enterprise	RFP VOL II Section 5.2.11.2 IP PABX and Communication System with Contact Center Solution	141	1. The contact centre solution shall include VoIP based EPBAX, IVRS, Automatic Call Distribution (ACD), Voice Logger Server. Using the contact centre solution, citizens can contact city administrator through the emergency communications system or through the contact center helpline number including Dial 100/112.	How the proposed helpline will be integrated with the emergency helpline? Also please clarify the requirement outcome.	Tender conditions shall prevail
Vol.2	1762	Inspira Enterprise	RFP VOL II Section 5.2.11.2 IP PABX and Communication System with Contact Center Solution	141	5. The callers should be able to access the various services through state-of-art centralized integrated Interactive Voice Response System (IVRS).	What all services will be available in IVR? Please confirm how many simultaneous calls need to be taken care by IVR?	Tender conditions shall prevail
Vol.2	1763	Inspira Enterprise	RFP VOL II Section 5.2.11.2 IP PABX and Communication System with Contact Center Solution	141	7. IVRS shall be able to get information /text/data from databases, convert to voice, and speaks it back to the caller in relevant/desired language, including English and Hindi both	Are you looking for Text to speech solution or static prompt playing will suffice the requirement? Also please share the expected call volume and AHT of the calls at IVR.	As per RFP (this is IP- PABX feature)
Vol.2	1764	Inspira Enterprise	RFP VOL II Section 5.2.11.2 IP PABX and Communication System with Contact Center Solution	141	8. Solution should provide pre-integration with industry standard IVRS servers and enhance routing & screen pop by passing forward the information. Interactive Voice Response System (IVRS) should - 1. play welcome messages to callers Prompts to press and collect DTMF digits 2. be able to integrate with backend database for self-service, as and when required 3. Offer GUI based tool to be provided for designing the IVR and ACD call flow. 4. support Voice XML for ASR, TTS, and DTMF call flows 5. be able to Read data from HTTP and XML Pages be able to run outbound campaigns	Is all these features needed from Day-1 or the system should be capable to support these features in future without changing teh solutin?Also if integration required please confirm on what all integration needed and sample call flow.	All these feature required from day-1.

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Vol.2	1765	Inspira Enterprise	RFP VOL II Secion 5.2.11.2 IP PABX and Communication System with Contact Center Solution	142	11. Solution should have automatic identification of incoming number based on landline and mobile number mapping. The recording shall be secure with AES 256-bit encryption. The system shall have maker checker profile with MD5 fingerprinting.	maker checker profile with MD5 fingerprinting is not associating with recorder so kindly remove this point.Also its applies to software not the media files which already encrypted and secured.	Tender conditions shall prevail
Vol.2	1766	Inspira Enterprise	RFP VOL II Secion 5.2.11.2 IP PABX and Communication System with Contact Center Solution	143	15. Solution should provide facilities for outbound calling list management, and software based predictive or preview dialing	Does its needed at day-1 or system should support this feature.	this feature required from Day-1
Vol.2	1767	Inspira Enterprise	RFP VOL II Secion 5.2.11.2 IP PABX and Communication System with Contact Center Solution	143	15. Solution should provide facilities for outbound calling list management, and software based predictive or preview dialing	Predictive dialing is used where large agent volume, Here predictive dialing is not usable so kindly remove the points.	Tender conditions shall prevail
Vol.2	1768	Inspira Enterprise	RFP VOL II Secion 5.3.7 End Host Anti – Virus	187	1. AV Soluton: Should have critical components for total security on the endpoint. (Antivirus, Antimalware, Vulnerability protection, Firewall, Device control & Virtual Patching.) in Box License supporting 100 nodes.	Kindly modify the clause to - "Should be a single agent that combines all the critical components for comprehensive security on the endpoint. (Antivirus, Antispyware, device control, desktop firewall, Desktop HIPS, applicaton control, Endpoint Detection & Response etc.)"	1. AV Soluton: Should have critical components for total security on the endpoint. (Antivirus, Antimalware, Vulnerability protection, Firewall, Device control) in Box License supporting 100 nodes.
Vol.2	1769	Inspira Enterprise	RFP VOL II Secion 5.3.7 End Host Anti – Virus	187	3. Program Control with Program Advisor: Program Control ensures that only legitimate and approved programs can run on the endpoint. Program Advisor is a real-time Vendor knowledge base of over a million trustworthy applications and suspected malware used to automatically set the Program Control configuration.	Program Control and Program Advisor are OEM specific terms. Kindly remove this as this is very specific.	Deleted
Vol.2	1770	Inspira Enterprise	RFP VOL II Secion 5.3.7 End Host Anti – Virus 16. Browser Security	188	16. b) Endpoint security solution should provide vulnerability protection, which should scan the machine and provide CVE number visibility and accordingly recommend rule for virtual patch against vulnerability.	Please remove this clause. This gives advantage to a particular OEM.	Deleted
Vol.2	1771	Inspira Enterprise	RFP VOL II Secion 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port 5. Ports	83	5. 4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	For uplinks, SFP ports are required and copper ports of combo will never be utilised, so please change the ports to 2x1G SFP slots which can be equipped with 1G SFP fiber or 1G Base-T coppoer modules. Please change it as - 4 x 10/100/1000 (PoE+) + 2 x 1G Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Refer to Addendum VII (sl no 16)
Vol.2	1772	Inspira Enterprise	RFP VOL II Secion 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port 10. Protocols	83	10. b) Static Routing Protocols	For multicast of CCTV streams, we recommend to consider PIM-SM(IPv4 and IPV6) for multicast of CCTV streams as considered with 8 port switch. Please change clause as Static Routing Protocols, PIM for IPv4 and IPv6, IPv4 and IPv6 dual stack for host (CCTV) traffic	Refer to Addendum VII (sl no 16)

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Vol.2	1773	Inspira Enterprise	RFP VOL II Section 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port 14. RAM & 15. Flash Memory	84	14. RAM:128 MB 15. Flash Memory: 1 GB or Better	It varies with OEM hardware design and OS size, please consider flash memory of 128MB Please change clause as RAM:128 MB Flash Memory: 128MB or more	Refer to Addendum VII (sl no 16)
Vol.2	1774	Inspira Enterprise	RFP VOL II Section 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port 13. Compliant Standards	83	13. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3bt is for HPOE++ i.e. 90w. As none of the cameras requires 90w of PoE power and PoE+ has been asked as per clause 5, we request to relax it. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at	Refer to Addendum VII (sl no 16)
Vol.2	1775	Inspira Enterprise	RFP VOL II Section 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port 22. OEM Criteria	84	22. (2) The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001	Please consider widely adopted ISO 9001 standard, and TL9000 is based on ISO 9001 itself. so we request you to change clause as The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000/ISO 9001 and ISO 14001	Refer to Addendum VII (sl no 16)
Vol.2	1776	Inspira Enterprise	RFP VOL II Section 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port 5. Ports	85	5. 8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	For uplinks, SFP ports are required and copper ports of combo will never be utilised, so please change the ports to 4x1G SFP slots which can be equipped with 1G SFP fiber or 1G Base-T copper modules. Please change it as - 8 x 10/100/1000 (PoE+) + 4 x 1G Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Refer to Addendum VII (sl no 18)
Vol.2	1777	Inspira Enterprise	RFP VOL II Section 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port 7. PoE Budget	85	7. PoE Budget: 150 W for better	For 8 port switch it should be 240watt so that each port support PoE + simultaneously. In 4 port switch as you have mentioned 120watt so for 8 port it should be 240watt.	Tender conditions shall prevail
Vol.2	1778	Inspira Enterprise	RFP VOL II Section 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port 15. Flash Memory	86	15. Flash Memory: 1 GB	It varies with OEM hardware design and OS size, please consider flash memory of 128MB Please change clause as Flash Memory: 128MB or more	Tender conditions shall prevail

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Vol.2	1779	Inspira Enterprise	RFP VOL II Section 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port 13. Compliant Standards	86	13. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3bt is for HPOE++ i.e. 90w. As non of the cameras requires 90w of PoE power and PoE+ has been asked as per clause 5, we request to relax it. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at	Refer to addendum VII (sl no 24)
Vol.2	1780	Inspira Enterprise	RFP VOL II Section 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port 22. OEM Criteria	86	22. (2) The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001	Please consider widely adopted ISO 9001 standard, and TL9000 is based on ISO 90001 itself. so we request you to change clause as The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000/ISO 9001 and ISO 14001	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent
Vol.2	1781	Inspira Enterprise	RFP VOL II Section 5.3.2 Data Center Spine & Leaf Switching Solution	167	24. Should support Unidirectional Link Detection Protocol (UDLD)	UDLD is Cisco proprietary protocol. Kindly change this clause to the following: "Should support Unidirectional Link Detection Protocol (UDLD) / equivalent."	Clause deleted
Vol.2	1782	Inspira Enterprise	RFP VOL II Section 5.3.2 Data Center Spine & Leaf Switching Solution	167	28. The solution should support NSSU/ISSU or equivalent.	For NSSU / ISSU to function properly, there has to be two management engine and this is applicable primarily to chassis based switch. The solution asked is Spine & Leaf architecture where failure of any one device won't stop forwarding traffic if properly deployed. "So we request to remove this clause to avoid ambiguity."	Clause deleted
Vol.2	1783	Inspira Enterprise	RFP VOL II Section 5.3.2 Data Center Spine & Leaf Switching Solution	168	46. The OEM should have service Center in Eastern part of India.	Kindly change this clause to "The OEM or its business partner should have service Center in Eastern part of India." As this clause is not mentioned for other devices (Ex. Intranet Firewall with IPS. & Next Generation Firewall), may consider to remove this clause.	46. The OEM should have service Center in India.
Vol.2	1784	Inspira Enterprise	RFP VOL II Section 5.3.3 Data Center Out of Band Switches	169	3. 48 x 1000BaseT ports with 2xSFP+ Uplinks	2xSFP+ uplinks for 48 port switch would introduce very high over-subscription. Kindly change this to "48 x 1000BaseT ports with 4xSFP+ Uplinks".	Tender conditions shall prevail
Vol.2	1785	Inspira Enterprise	RFP VOL II Section 5.3.3 Data Center Out of Band Switches	169	6. Should support minimum 8MB buffer.	Higher buffer may delay delivery of packet and delayed delivery of packet might be more harmful for realtime applications (most of the Smart City applications would be such). Kindly change this clause to - "Should support minimum 4MB buffer".	Refer to addendum XII
Vol.2	1786	Inspira Enterprise	RFP VOL II Section 5.3.3 Data Center Out of Band Switches	170	20. Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC).	Kindly change this clause to "Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC) or IEEE 802.3x Flow Control.	Refer to addendum XII
Vol.2	1787	Inspira Enterprise	RFP VOL II Section 5.3.3 Data Center Out of Band Switches	171	35. The OEM should have service Center in Eastern part of India	Kindly change this clause to "The OEM or its business partner should have service Center in Eastern part of India." As this clause is not mentioned for other devices (Ex. Intranet Firewall with IPS. & Next Generation Firewall), may consider to remove this clause.	35. The OEM should have service Center in India

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Vol.2	1788	Inspira Enterprise	RFP VOL II Section 5.2.8 Internet Switch (L-3) Number of interfaces	136	4. <u>Number of interfaces</u> - 48x10/100/1000 Mbps RJ45 ports 2xSFP Ports (dedicated)	2xSFP uplinks for 48 port GigE switch would introduce very high over-subscription. Kindly change this to - " <u>Number of interfaces</u> - 48x10/100/1000 Mbps RJ45 ports 4x10G SFP+ Ports (dedicated)".	Tender conditions shall prevail
Vol.2	1789	Inspira Enterprise	RFP VOL II Section 5.5.3.1 Core Router	296	8. Should support up to 16K MAC addresses	16K MAC address support is too low for the Core Router of Smart City Network. Kindly change this clause to "Should support up to 1 Million MAC addresses".	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	1790	Inspira Enterprise	RFP VOL II Section 5.5.3.1 Core Router	296	9. Shall support - minimum 256K IPv4 and IPv6 routes - minimum 4K multicast routes	Service Provider grade router is required for the Core Router of Guwahati Smart City. Routing parameters are too low. Kindly change this clause to "Shall support - minimum 2 Million IPv4 and 2 Million IPv6 routes - minimum 128 K multicast routes	Tender conditions shall prevail
Vol.2	1791	Inspira Enterprise	RFP VOL II Section 5.5.3.1 Core Router Security feature	297	27. Segment Routing	Kindly explain the use case of "SR and LDP integration support" feature asked under segment routing. May remove this Segment Routing features to avoid ambiguity and participation of more OEMs.	Refer to addendum VI (SI no 126)
Vol.2	1792	Inspira Enterprise	RFP VOL II Section 5.5.3.1 Core Router	297	45. Hierarchical QoS	Kindly change this clause to "Hierarchical QoS with 256k queues" so that minimum QoS performance parameter is set.	Tender conditions shall prevail
Vol.2	1793	Inspira Enterprise	RFP VOL II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Ports	302	1. <u>Ports</u> - 24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports.	Kindly change the clause to "24*10/100/1000 Base-TX/FX ports, 4 nos of 10G uplink ports and 2 nos. of 40G Ports for ring creation" for better performance.	Refer to Addendum VII (SI no 1)
Vol.2	1794	Inspira Enterprise	RFP VOL II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Switch Type	302	2. <u>Switch type</u> - Layer 2	Kindly change the clause to "Switch type Layer 2 / Layer 3" for deployment flexibility.	Refer to Addendum VII (SI no 1)

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Vol.2	1795	Inspira Enterprise	RFP VOL II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Operating Temperatures	303	8. <u>Operating Temperatures</u> - 0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	The highest-ever temperature recorded in Guwahati was 40.3°C in May 1960. Kindly change this clause to " <u>Operating Temperatures</u> - 0° to 45° C, shall support 0% to 85% noncondensing humidity conditions.	Refer to Addendum VII (SI no 1)
Vol.2	1796	Inspira Enterprise	RFP VOL II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Protocols	303	18. Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	"jumbi frame" looks like a typo error and jumbo frame support requirement should be mentioned. Request to change this clause to "Support upto 4K VLANs and 9216 bytes jumbo frame"	Refer to Addendum VII (SI no 1)
Vol.2	1797	Inspira Enterprise	RFP VOL II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Metro Features	303	28. Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	Refer to Addendum VII (SI no 1)
Vol.2	1798	Inspira Enterprise	RFP VOL II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Metro Features	303	30. Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	Refer to Addendum VII (SI no 1)

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Vol.1	1799	Inspira Enterprise	RFP Vol I Section 2.29. Eligible Goods and Services, and OEM Criteria	28	(I) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	<p>Kindly change this clause to:</p> <p>a. The proposed OEM for ICCC Platform should only be responsible for deploying, commissioning and integration of platform with all the solutions as proposed in the RFP. The deployment, commissioning and integration of the ICCC platform cannot be outsourced to third part integrators/partners and has to be delivered by ICCC platform OEM only.</p> <p>b. The proposed ICCC Platform should have been deployed in at least one city in India with bi-directional integration with utilities like water, energy and sewerage etc. The platform must have in-built protocol for these integrations. The integration should be on real-time basis and not on off-line basis</p> <p>Justification: Current Requirement for GSCL requires a platform as a framework for sensing, for communication, for integration with OT technology which is made up of multiplicity of diverse use applications. The city needs a systems of systems platform capable of managing different technologies and devices, and enable different application services for different services in the city. A platform which is future ready and of industrial strength, scalable, not only able to scale to accommodate and process more data but of the same type, but also from variety of sources thus converging the IT and OT world.</p> <p>ICCC is a level 4 consolidation and monitoring mechanism and not a it dashboard of surveillance monitoring. ICCC should cater to needs of the current as well as future integrations basis the scalability of smart city solutions and tools which also include physical infrastructure like water, energy, sewerage etc. Camera is specific to Video Management System and the current condition under ICCC should be moved or changed to Video Management System OEM. There are very few implementations of ICCC in India which has IT/OT convergence. OT plays a major role in any city and ICCC PAN CITY. Hence we have to buy a ICCC Platform with capability to control, command and monitor all the IT and OT assets.</p>	Tender conditions shall prevail.
Vol.1	1800	Inspira Enterprise	RFP Vol I Section 3.6.1 Technical Bid Criteria & Evaluation B. Project Experience (Max -50 marks) B4.2 Integrated Command and Control Centre Solution (OEM Criteria)	42	<u>B4.2 Integrated Command and Control Centre Solution (OEM Criteria)</u> - No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	<p>Kindly change this clause to:</p> <p>1. Proposed ICCC Platform has been successfully implemented in at least one smart city in India, as on date of bid submission, with at least 10 or more different smart application integrations (in a single project) covering bidirectional integration (centrally command, controlled and operated by ICCC platform) mandatorily having any four of the below: (10 marks)</p> <ul style="list-style-type: none"> • Water System with control • Sewerage system with control • Light system with control • Surveillance system with control • Intelligent Traffic Management System • Parking Management • Building Management with control <p>2. Proposed ICCC Platform has been successfully implemented in at least one smart city in India, as on date of bid submission, with at least 7 or more different smart application integrations (in a single project) covering bidirectional integration (centrally command, controlled and operated by ICCC platform) mandatorily having any three of the below: (6 marks)</p> <ul style="list-style-type: none"> • Water System with control • Sewerage system with control • Light system with control • Surveillance system with control • Intelligent Traffic Management System • Parking Management • Building Management with control <p>3. Proposed ICCC Platform has been successfully implemented in at least one smart city in India, as on date of bid submission, with at least 4 or more different smart application integrations (in a single project) covering bidirectional integration (centrally command, controlled and operated by ICCC platform) mandatorily having any two of the below: (3 marks)</p> <ul style="list-style-type: none"> • Water System with control • Sewerage system with control • Light system with control • Surveillance system with control • Intelligent Traffic Management System • Parking Management • Building Management with control <p>Justification: The ICCC platform is being deployed for whole of the city and not restricted to Surveillance & ITMS. ICCC needs to have future integrations with other point solutions as well including physical technologies like water,</p>	Refer to addendum VI

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Vol.1	1801	Inspira Enterprise	RFP Vol I Section 3.6.1 Technical Bid Criteria & Evaluation C. Approach, Methodology, Project Presentation & POC (Max. 30 marks) C2. Proof of concept(POC)	44	C2. Proof of concept(POC) : 1. Need to demonstrate the ICCC Control Room setup with visualization (2*2 Screen – 5 Marks) 2. Integration with Security & Surveillance System (Surveillance Cameras, SVD, RLVD & ANPR – 5 Marks)	Kindly change this clause to: • Demonstrated level of understanding of the scope of work and all aspects of the project- 2.5 marks • Approach & Methodology for Implementation - Solution Architecture scalability, Interoperability and modularity features considering the future expansion of the project- 2.5 marks • Strategy for Cloud, SLA and System Security -1 marks • Project implementation Plan / Risk Mitigation Plan / Strategy-2 marks • Operations and maintenance plan including comprehensiveness of fall back strategy- 2 marks POC for integration of ICT interventions with Command and Control Centre Platform (This has to be added for proof of concept) 1. Sub system integration with ICCC platform with controls – 18 Marks a. Bus rapid transport system integration including CCTV integration in the bus shelter along with controls - 2 Marks b. LED street light integration with controls- 2 Marks c. Intelligent traffic management solution integration - 2 Marks d. CCTV surveillance solution integration with controls - 2 Marks e. Water SCADA integration with controls - 3 Marks f. Energy SCADA integration - 2 Marks g. IBMS solution integration with controls - 2 Marks h. E-Governance solution integration - 2 Marks i. Enterprise Management System (EMS) integration & monitoring - 1 Marks D Resource Profile - Onsite Project Director - 4 Marks Onsite Solution Architect - 2 Marks Onsite SCADA Expert - 2 Marks Onsite IoT Expert -4 Marks	Tender conditions shall prevail.
Vol.2	1802	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Data Normalization capabilities	112	3. It is envisaged that the city will implement multiple Smart City usecases like Smart Traffic Management, Smart Parking, Smart Lighting, Energy Metering, Water Metering, CCTV, Public Transport, Public Wi-Fi and other integrations as per defined scope	Kindly Change this clause to: It is envisaged that the city will implement multiple Smart City use cases like Smart Traffic Management, Smart Parking, Smart Lighting, Smart Energy, Smart water, CCTV, Public Transport, Public Wi-Fi and other integrations as per defined scope with ability for inbuilt bi-directional integration with utility services like water, sewerage & electricity. The platform should be able to aggregate and normalize the data coming from different devices of same type (e.g. lighting sensor, water sensors (different OEMs), energy meters (different OEMs), SCADA, RTU's PLC etc.) and provide secure access to that data using data API(s) to application developers. The message exchange between various applications in the smart city should be fully encrypted and authenticated. The proposed ICCC Platform should have been deployed in at least one city in India with bi-directional integration (Command and Control) with utilities like water, energy and sewerage. The integration should be on real-time basis over in-built native protocols and not on off-line basis. The platform must have in-built protocol for these integrations. Justification: The ICCC platform is being deployed for whole of the city and not restricted to Surveillance & ITMS. ICCC needs to have future integrations with other point solutions as well including physical technologies like water, electricity, energy & sewerage. This should also be done at a level where there is bi-directional control for manual override during emergency situation with the control and command functionality in the ICCC platform. ICCC platform cannot be a mere dashboarding tool. Water is one of the major concern for Guwahati Smart City and it needs to be monitored and control from the ICCC. Water, electricity, energy & sewerage is one of the most critical utilities for Guwahati Smart City, which has been completely ignored in this tender and as a functionality for a ICCC. Need to bring focus back on utilities and physical infrastructure rather than just focusing on IT part of the pan city implementation.	Tender conditions shall prevail

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Vol.2	1803	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Platform Visualization	112	10. Platform must provide multiple options to visualize geo-spatial, operational and metrics data	<p>Kindly change this Clause to – Platform system software shall include an object-oriented color graphics display generator with full animation capabilities to provide users with a realistic and efficient visualization of the system process. It shall provide graphical capabilities to allow design of highly efficient user interface aimed at helping operators to easily achieve a state of situational awareness in relation to the process.</p> <p>Justification - Why is the ICCC Platform is being treated as a platform for GIS functionality only? ICCC Platform has broader functionality than as mentioned in the RFP. GIS is a small component and since the platform has already asked for GIS integration why do we want to replicated the functionality of GIS in ICCC platform? Rather we need ICCC platform with visualization functionality to make it more interactive and realtime.</p>	Tender conditions shall prevail
Vol.2	1804	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Platform Visualization	113	18. Platform must provide ability to support different geo spatial formats from commercial and open geospatial consortium standards like WMS, KML, SHP, City GML.	<p>Kindly change this Clause to – Visualization should support multi monitor capability without opening multiple instances of the application. It should also support opening part of application at defined location on the video wall.</p> <p>Justification - Why is the ICCC Platform is being treated as a platform for GIS functionality only? ICCC Platform has broader functionality than as mentioned in the RFP. GIS is a small component and since the platform has already asked for GIS integration why do we want to replicated the functionality of GIS in ICCC platform? Rather we need ICCC platform with visualization functionality to make it more interactive and realtime.</p>	Tender conditions shall prevail
Vol.2	1805	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Data and Analytics engine	113	22. <u>Analytics</u> : provides time-shifted or offline analytics on the archived data.	<p>Kindly change this Clause to – ViCCC platform should have inbuilt historian with advance data retrieval. Platform should have following advance data retrieval modes like:</p> <ul style="list-style-type: none"> •Time-in-state •Best fit •Counter •Minimum, maximum, average •Slope •Time weighted average •Cycle and delta •Value state •Interpolated •Integral •Full •Round trip <p>System should be able to handle data coming in from system with mismatched system clocks, preserving the correct data sequence automatically ICCC Platform should have inbuilt Historian to capture and store high-fidelity industrial and enterprise data. Historian should high-performance process database capable of storing the huge volumes of data generated.</p> <p>Historian should capable of unite high-speed data acquisition and storage with traditional relational database management.</p> <p>Historian shall have capability to support up to 3M I/O.</p> <p>Justification - ICCC platform will be dealing with data form operational technology. This is significant in case of Guwahati City. Considerations & provision has to be made for analysis and calculation of timeseries data coming from these diverse operational technologies which now has not been considered.</p>	Tender conditions shall prevail

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Vol.2	1806	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform API Repository / API Guide	113	28. Platform OEM shall have published the normalized APIs in their website for the listed domains (Parking, Outdoor Lighting, Traffic, Environment, Urban mobility etc.) to allow sensor vendors and app developers to develop their connectors / adaptors to the platform.	<p>Kindly change this Clause to – Enables City and/or its partners to write software adaptors based on the API(s) provided by device vendors and have the ability to control, monitor and collect the data from these street devices.</p> <p>Justification - How is this functionality relevant to a ICCC platform where we do not know what are the services provided by the Point solutions which are being deployed by different OEM's. Every OEM has their own methodology and functionality. This can be customized but cannot be the responsibility of ICCC platform. Platform needs to be agnostic of technologies</p>	Tender conditions shall prevail
Vol.2	1807	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Platform upgrade and maintenance	114	30. Facility to securely access the platform remotely for platform updates /upgrades and maintenance for the given duration.	<p>Kindly change this Clause to – Platform should be able to make incremental changes in response to the staged object deployment within same scan cycle and make continuous updates on the fly.</p> <p>Justification - This needs to be changed to include the changes for edge devices as well. Currently this is only about the platform s IOE the Software can be deployed on edge as well. This needs to be changed to include to consider the entire deployment</p>	Tender conditions shall prevail
Vol.2	1808	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Platform functionality	114	Platform Functionality	<p>Kindly change this Clause to – System should provide a common data integration layer for Transactional data (DB) and common data integration layer for time-series data (Process Historian) which can collect and contextualize information from disparate data sources regardless of protocol. Platform should have supervisory capabilities and should be able to bi-directionally monitor, command & control all types of operational technology.</p> <p>Should have ability to take over control of subsystems with bi-directional control wherever it is applicable and required. For e.g. Water SCADA & Electrical SCADA Systems. Ex: ability to start / stop pumps in pump house, open/close valves in distribution network in case of emergency like flood, earthquake or any disaster which may disrupt normal operations, control PTZ cameras, switching on/off street lights, setting the traffic signal timers to name a few.</p> <p>System should provide facility for centralized storage of operational data (time-series) with high granularity and data compression capability. The proposed OEM for ICCC Platform should only be responsible for deploying, commissioning and integration of platform with all the solutions as proposed in the RFP. The deployment, commissioning and integration of the ICCC platform cannot be outsourced to third party integrators/partners and must be delivered by ICCC platform OEM only</p> <p>Justification - Current platform functionality is very limited for a ICCC platform. ICCC platform has broader role and functionality. For a smart city these functionalities are not sufficient and new functionalities needs to be added. We need to add functionality in following areas.</p> <ol style="list-style-type: none"> 1.Unified Central Platform 2.Unified Control 3.Unified Command 4.Unified Operations 5.Unified Decision Support 	Tender conditions shall prevail

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Vol.2	1809	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Integration capabilities	115	44. Platform should integrate with IT, OT, IoT, Video Analytics, VMS devices and applications	<p>Kindly change this Clause to – ICCC platform should have ability to integrate with subsystems natively, driving unified user interface providing ease of operations and facilitating central control across multiple operations. IT, OT and IoT conversion in Single Platform. This enables integration server to integrate seamlessly with Operational Technology, Information Technology (IT)/ IoT based subsystems.</p> <p>Operational Technology Integration should include inbuilt support for protocols like: OPC UA/DA (SCADA), BACNET (BMS), MODBUS (Metering & field controller-PLCs/DCS), IEC etc. Bidder to give undertaking for inbuilt support for above mentioned OT protocols. IT Application should integrate via ESB (Enterprise Service Bus) with IT protocols like: Web-services/APIs/ REST/SOAP (City Surveillance, ITMS, BRTS, GIS), ERP (e-Gov, payment gateway) etc. The system should integrate and connect with operational technology sensors natively on real-time basis with bi-directional control, to achieve better services to Citizens. The integration should not be on offline basis</p> <p>Justification - ICCC platform is not limited to Video analytics or VMS. Why the functionality of VMS is being expected from the ICCC. Platform should cater to a broader functionality and integration capability of city. This is restrictive and is pointing towards ICCC being merely a VMS Platform. Please include broader functionality of ICCC for integration</p>	Platform should enable integration with IT, OT, IoT, Video Analytics, VMS devices and other Smart City Applications to be deployed in future.
Vol.2	1810	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Unified Communication Platform for Smart ICCC Operation	122	Unified Communication Platform for Smart ICCC Operation	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality.</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.
Vol.2	1811	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform ICCC operator communication tool	122	ICCC operator communication tool	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.

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Vol.2	1812	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Dispatch System for Command and Control Operations	122	Dispatch System for Command and Control Operations	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.
Vol.2	1813	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform IP-based dispatch console	124	IP-based dispatch console	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.
Vol.2	1814	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Data Center Security & Visibility	124	Data Center Security & Visibility	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.
Vol.2	1815	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Deployment Automation	125	Deployment Automation	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with communication tool.</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.
Vol.2	1816	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Workload Automation Tool	125	Workload Automation Tool	<p>Kindly change this Clause to – Remove this completed functionality and should be mentioned as external functionality</p> <p>Justification - This is a separate tool/functionality. This is proprietary and needs be included as external integration with workload automation tool</p>	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.

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Vol.2	1817	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform Application Performance Monitoring	125	Application Performance Monitoring	This is a separate tool/functionality. This is proprietary and needs be included as external integration with applicaton performance monitoring tool	This tool / platform can be internal or external to ICCC. However, if external, ICCC should support seamless integration with third party tool / platform.
Vol.2	1818	Inspira Enterprise	RFP Vol II Section 5.2.2 Technical Specification – ICCC Sub-Section 5.2.2.1 Integrated Command Control Platform		Addition	<p>Kindly change this Clause to –</p> <p>a) ICCC platform should have a user interface or dashboard and schematics that connects a person to a machine system or a device to achieve human machine interface. The interface should provide displays with modern UI/UX design. System should provide multi-touch and gesture controls such as panning & zooming, swipe, clutter & declutter of graphical layers and a larger view of the process. Extensible library of over 500 pre-designed 'intelligent' and customizable visualization objects & templates</p> <p>b) ICCC platform should have a client/server architecture to allow multiple client access to an Ethernet connected server. The workstation shall operate also as a stand-alone workstation/server. Should have built-in, real-time and historical trending. Stunning graphic visual representation and interaction with operation bringing the right information to the right people at the right time The main UI/UX for Unified Operation Centre should supports multi-monitor. And shall works on both OS based native application as well as web-browser (RDP over HTML).</p> <p>c) ICCC platform shall enable an operator to interact with various devices including network nodes (Modbus/BacNet), recorders, input/output (I/O) systems, intelligent transmitters, and other field devices.</p> <p>Justification - Human Machine Interface, allows you to interact with a device & Point solution at core level. HMI is an important functionality allowing end user to interact with the city and city level device and sensors on realtime basis. Request you to please add this functionality to ICCC Platform.</p>	Tender conditions shall prevail
Vol.2	1819	Inspira Enterprise	RFP Vol II Section 5.1.2.4 Storage/Recording Requirements	66	Point b - 30 days storage of all the surveillance CCTV camera feeds to be stored at Data Centre and Flagged data (critical incidents) will be stored for approximately 90 days, permanent storage envisaged on secondary/backup storage	We would request to consider only "Disk based" storage as "Secondary / Backup storage" since Tape storage is almost reaching to the end of life-cycle. Considering that vendor need to maintain it for 5 years - hence would request to consider disk basd Secondary / Backup storage for storing of CCTV Camera feeds. Please cofirm?	Tender conditions shall prevail
Vol.2	1820	Inspira Enterprise	RFP Vol II Section 5.1.2.4 Storage/Recording Requirements	66	Point e - 365 days storage of traffic junction data for ATSC at Data Centre and Flagged data will be stored for approximately 5 years.	Since flagged data will be stored for Approximately 5 years hence would request to consider only disk based solution. Although we can provide the Tape Based solution however considering the long term life-cycle - would request to consider Disk based solution only from both Management and data life-cycle perspective. Please confirm?	Tender conditions shall prevail
Vol.2	1821	Inspira Enterprise	RFP Vol II Section 5.1.2.4 Storage/Recording Requirements	66	Point f - Above all systems except ITMS are required to be stored online thirty (30) days of video for all cameras on primary storage, balance 60 days will be on low cost secondary storage /tape library.	Request to remove the tape Library option. Although as vendor - we can provide the Tape library option however considering the long-term life-cycle, Data consistency and available - low cost secodary storage would be preferred option. Requesting to remove Tape Library option. Please confirm?	Tender conditions shall prevail
Vol.2	1822	Inspira Enterprise	RFP Vol II Section 5.3.11 Storage Specifications Capacity	199	<p>4. Capacity:</p> <p>a) Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)</p> <p>b) Solution should have support for a minimum of Deployment more than 10 PB usable capacity.</p>	<p>Our understanding from 3PB usable capacity for 30 Days shall be part of a single storage array? Please confirm?</p> <p>Accordingly 5PB usable capacity for 90 days secondary flagged data shall also be a part of a single disk based secondary storage? Please confirm?</p>	Refer to Addendum IV

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Vol.2	1823	Inspira Enterprise	RFP Vol II Section 5.3.11 Storage Specifications Storage	199	5. <u>Storage</u> b) Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Since we use a concept of Protection level instead of using the word RAID hence Request to change this clause as "Should support various Raid Levels or Protection levels (0,1,6, 10/DO or equivalent).	Refer to Addendum IV
Vol.2	1824	Inspira Enterprise	RFP Vol II Section 5.3.11 Storage Specifications Storage	199	5. <u>Storage</u> e) Should support disaster recovery mechanism natively	Considering that storage will be used for Video data hence our understanding is that even if one flagged video file needs to be replicated from storage to other location - it shall be possible natively from storage. Please confirm?	Refer to Addendum IV
Vol.2	1825	Inspira Enterprise	RFP Vol II Section 5.3.11 Storage Specifications Storage	199	5. <u>Storage</u> f) Should be able to scale out without service interruption	Considering the requirement of 10PB scalability - Request to please specify the number of scale-out controllers requirement. Our understanding is that offered solution shall be able to scale-out at-least 32 number of nodes or controllers. Please confirm?	Refer to Addendum IV
Vol.2	1826	Inspira Enterprise	RFP Vol II Section 5.3.11 Storage Specifications Hardware Platform	200	6. <u>Hardware Platform</u> d) Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports. e) Storage shall have minimum front-end support for 16 Gb and backend support for minimum 12 Gb.	Seems to be typo. Since authorities have already mentioned 8 x 10/40Gbe hence clause e shall be "Storage shall have minimum front-end support for 10Gb and backed support for minimum of 12Gb. Please confirm?	Refer to Addendum XII
Vol.2	1827	Inspira Enterprise	RFP Vol II Section 5.3.12 Hyper Converged Infrastructure (HCI) 6. Virtualization	203	6.1. The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V & VMware	Every HCI appliance uses the different architecture while providing the required capability to customer. HPE HCI solution is based upon VMware hypervisor. Considering it - would request to modify the clause as "The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed."	Tender clause prevails
Vol.2	1828	Inspira Enterprise	RFP Vol II Section 5.3.12 Hyper Converged Infrastructure (HCI) 6. Virtualization	204	6.4. the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solutions without the need for agents inside the virtual machines.	This clause seems to be very specific to a vendor. Request to either delete this clause or modify it as "the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solution"	Clause deleted
Vol.2	1829	Inspira Enterprise	RFP Vol II Section 5.3.12 Hyper Converged Infrastructure (HCI) 6. Virtualization	204	6.7. The solution shall support provisioning across multihypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	HPE HCI is based upon VMware Hypervisor but VMs can be windows, Linux, Microsoft etc and will be provisioned as per requirements. Request you to delete this clause or modify it as" The solution shall support provisioning from at-least one of the hypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	Tender clause prevails
Vol.1	1830	Inspira Enterprise	RFP Vol I IMPORTANT DATES Last date for online submission of Bids	2	Last date for online submission of Bids - 13-07-2020 up to 15.00 Hrs.	Extension of atleast four weeks from the date of Pre-Bid clarification/ Corrigendum release. Due to this COVID-19 lockdown situation, responses from the OEM are getting delayed. So requesting the Tender Committee to allow atleast 4 weeks of tender Submission timeline from the Release Date of Pre-Bid Corrigendum to provide adequate response time .	Refer to addendum
Vol.2	1831	Inspira Enterprise	RFP Vol II Section 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port 10. Protocols	85	10. (c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1.	OSPF is a Layer 3 protocols and applicable at distribution and core level. Its not required at edge level switch	Refer to Addendum VI (SI no 101))

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Vol.2	1832	Inspira Enterprise	RFP Vol II Section 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port 19. Persistent PoE	84	19. Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	This is a requirement of redundant power supply. Please confirm.	Refer to Addendum VII (sl no 16)
Vol.2	1833	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	165	2. Active switching throughput should be minimum I) Spine Switch - 6.4 Tbps ii) Leaf (ToR) Switch – 1.44 Tbps	1.44 Tbps is far less . Requesting to change the clause as: "ii) Leaf (ToR) Switch – 2.16 Tbps"	Tender conditions shall prevail
Vol.2	1834	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	166	3.2. Leaf Switch – i) 24x 100BaseT Ports	Requesting to change the clause as: "24X1000 BaseT ports."	Refer to Addendum XII
Vol.2	1835	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	166	6. Should have 32MB buffer.	Suggesting 16GB RAM for Spine and 8 GB for leaf switch with 16GB flash on both switch for attaining min 32mb buffer	Tender conditions shall prevail
Vol.2	1836	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 166	11. Support for 200,000 or more MAC addresses	Requesting to change the clause as: "Support for min 100K" as these many are enough and would qualify multiple OEMs.	Refer to Addendum VI
Vol.2	1837	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	167	18. Should support DHCP	We are requesting to add - L3VPN with DHCP, please rephrase to "Should Support DHCP L3VPN"	Tender conditions shall prevail
Vol.2	1838	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	168	46. The OEM should have service Center in Eastern part of India.	We are requesting to add - OEM or OEM authorize Partner should have services center in eastern part.	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	1839	Inspira Enterprise	RFP Vol II Section 5.3.2 Data Center Spine & Leaf Switching Solution	168	47. The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares.	We are requesting to add - OEM or OEM authorize Partner should have services center in eastern part.	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	1840	Inspira Enterprise	RFP Vol II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN 3. MAC	302	3. 32k or more	Requesting to change the clause as: min 16K MAC address Also please refer Clause no. 7 is it mismatch as clause 7 recommends 12k Mac address.	Refer to Addendum VII (sl no 1)

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Vol.2	1841	Inspira Enterprise	RFP Vol II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN 7. IPv4 and IPv6 Hosts Addresses	302	7. Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	We suggest 16K MAC address request you to please consider	Refer to Addendum VII (sl no 1)
Vol.2	1842	Inspira Enterprise	RFP Vol II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN 8. Operating Temperatures	303	8. 0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	Normal switches have 0 to 45 Degree and supports 5% to 96% Humidity. Request you to please rephrase to " 0 degree to 45 degree, shall support 5% to 95% noncondensing humidity conditions	Refer to Addendum VII (sl no 11)
Vol.2	1843	Inspira Enterprise	RFP Vol II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN 9. IP Route Table	303	9. Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	OEM Specific, please rephrase "Switch should support minimum of 128 IPv4 routes and 256 IPv6 routes	Refer to Addendum VII (sl no 1)
Vol.2	1844	Inspira Enterprise	RFP Vol II Section 5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN Protocols	303	18. Support upto 4K VLANs with jumbo frame handling capability of 13K packet size	OEM specific, request to change from 13K to 9K Jumbo frame	Refer to Addendum VII (sl no 1)
Vol.2	1845	VIVOTEK INC.	Volume 2.5.1.3.1 Dome Camera	Page No.72	SR(8) Video Resolution:2MP- 1920x 1080p	Request you to change clause " Video Resolution : 5MP -2560x1920P, 5MP is having better resolution than 2 MP . It is available with all leading OEMS.. So Request you to consider it .	Tender conditions shall prevail
Vol.2	1846	VIVOTEK INC.	Volume 2.5.1.3.1 Dome Camera	Page No.73	SR(28) OEM Criteria :-OEM without any JV/Distributor Should have their own registered office in India since Last 7 years	Request you to consider to amend OEM Criteria : -OEM without any JV/Distributor should have their own registered office in India since last 5 years also CCTV OEM must have experience of manufacturing of CCTV Products from last 5 years in India or 10 years for non-Indian OEM. -The OEM of CCTV Equipment should be in surveillance business for at least 10(Ten) years as of 31st March 2020 and should have valid factory license. -OEM should not be blacklisted or barred by any Ministry of Government of India or any of the Government / PSUs or any other government department at the time of bidding. Declaration on OEM letterhead should be submitted.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period
Vol.2	1847	VIVOTEK INC.	Volume 2.5.1.3.1 Dome Camera	Page No.73	SR(28) OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 7 years	Request you to consider to amend OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 5 years	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period

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Vol.2	1848	VIVOTEK INC.	Volume 2.5.1.3.2 Fixed Bullet CCTV Cameras	Page No.74	SR(4) Video Resolution:2MP- 1920x 1080p	Request you to consider change clause " Video Resolution : 5MP - 2560x1920P,5MP is having better resolution than 2 MP . It is available with all leading OEMS.. So Request you to consider it .	Tender conditions shall prevail
Vol.2	1849	VIVOTEK INC.	Volume 2.5.1.3.2 Fixed Bullet CCTV Cameras	Page No.75	SR(14)Multiple Streams: Quad stream	Request you to consider to change clause :-"Multiple Streams: Three stream" it is available with all leading OEMs, and Quad stream is specific to OEM and is restricting to participate to other OEMS .	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	1850	VIVOTEK INC.	Volume 2.5.1.3.2	Page No.77	SR(29) OEM Criteria :-OEM without any JV/Distributor Should have their own registered office in India since Last 7 years	Request you to consider to amend OEM Criteria : -OEM without any JV/Distributor should have their own registered office in India since last 5 years alsoCCTV OEM must have experience of manufacturing of CCTV Products from last 5 years in India or 10 years for non-Indian OEM. -The OEM of CCTV Equipment should be in surveillance business for at least 10(Ten) years as of 31st March 2020 and should have valid factory license. -OEM should not be blacklisted or barred by any Ministry of Government of India or any of the Government / PSUs or any other government department at the time of bidding. Declaration on OEM letterhead should be submitted.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period
Vol.2	1851	VIVOTEK INC.	Volume 2.5.1.3.2	Page No.77	SR(29) OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 7 years	Request you to consider to amend OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 5 years	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period
Vol.2	1852	VIVOTEK INC.	Volume 2.5.1.3.3 PTZ CCTV Cameras	Page No.77	SR(4) Video Resolution:2MP- 1920x 1080p	Request you to consider change clause " Video Resolution : 4MP - 2560x1440P, 4MP is having better resolution than 2 MP . It is available with all leading OEMS.. So Request you to consider it .	Better specifications are acceptable
Vol.2	1853	VIVOTEK INC.	Volume 2.5.1.3.3 PTZ CCTV Cameras	Page No.77	SR(8)Frame Rate :50/60 FPS at full resolutions	Request you to Consider to Change this clause "30fps @2560X1440 .It will give better image quality without affecting functionality of the systems	Tender conditions shall prevail
Vol.2	1854	VIVOTEK INC.	Volume 2.5.1.3.3 PTZ CCTV Cameras	Page No.77	SR (6)Iris :-Automatic with manual override or P-Iris	Request you to consider to add DC -IRIS , because P-IRIS is not available in PTZ.	Refer to Addendum IV
Vol.2	1855	VIVOTEK INC.	Volume 2.5.1.3.3 PTZ CCTV Cameras	Page No.78	SR(10) Lens :Auto-focus, 4.3 – 129 mm (-/+ 1mm) (corresponding to 30 X)	Request you to consider to change Lens : 6 -210 mm . It is available with all leading OEM in 4MP.	Tender conditions shall prevail
Vol.2	1856	VIVOTEK INC.	Volume 2.5.1.3.3 PTZ CCTV Cameras	Page No.78	SR(12)Minimum Illumination : Colour: 0.04 lux @ F 1.6, B/W: 0.00 lux (at 30 IRE, F 1.6) or better	Request you to consider to change this clause " Color 0.5Lux . The mentioned illumination restricting to participate other OEMs. This is available with all leading OEMS and will help to participate others OEM.	Tender conditions shall prevail
Vol.2	1857	VIVOTEK INC.	Volume 2.5.1.3.3	Page No.79	SR(26)-Camera Analytics:-Camera must have edge base analytics Viz; Enter / leavefield, Loitering, Line Crossing, follow route, Idle / removed object, Counting,Occupancy,Crowd density estimation. Bidder to ensure minimum 8Different types of analytics shall run simultaneously in each Camera	Request you to consider to remove this clause "-Camera Analytics:-Camera must have edge base analytics Viz; Enter / leavefield, Loitering, Line Crossing, follow route, Idle / removed object, Counting,Occupancy,Crowd density estimation. Bidder to ensure minimum 8Different types of analytics shall run simultaneously in each Camera because edge analytics does not work properly in PTZ due to continuous movement of camera. it is better work with VMS Software . Please consider it.	Tender conditions shall prevail
Vol.2	1858	VIVOTEK INC.	Volume 2.5.1.3.3 PTZ CCTV Cameras	Page No.80	SR(28)Operating conditions with IR :-20 °C to +60 °C	Request you to consider with IR :-20 °C to +50 °C. It is available with all leading OEMS. It is specific to OEM	Tender conditions shall prevail
Vol.2	1859	VIVOTEK INC.	Volume 2. 5.1.3.3 PTZ CCTV Cameras	Page No.80	SR(34) OEM Criteria :-OEM without any JV/Distributor Should have their own registered office in India since Last 7 years	Request you to consider to amend OEM Criteria : -OEM without any JV/Distributor should have their own registered office in India since last 5 years also CCTV OEM must have experience of manufacturing of CCTV Products from last 5 years in India or 10 years for non-Indian OEM. -The OEM of CCTV Equipment should be in surveillance business for at least 10(Ten) years as of 31st March 2020 and should have valid factory license. -OEM should not be blacklisted or barred by any Ministry of Government of India or any of the Government / PSUs or any other government department at the time of bidding. Declaration on OEM letterhead should be submitted.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1860	VIVOTEK INC.	Volume 2, 5.1.3.3 PTZ CCTV Cameras	Page No.80	SR(34) OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 7 years	Request you to consider to amend OEM Criteria :OEM without any JV/ Distributor Should have their own service center in India since Last 5 years	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period
Vol.2	1861	VIVOTEK INC.	Volume 2 , 5.4.2.6 ANPR HW Requirements	Page No.244	SR(6)Minimum Illumination:0.001Lux @ (F1.2, AGC ON), 0.0014Lux @ (F1.4, AGC ON), 0 Lux at IR ON	Request you to consider to change this clause " Color 0.5Lux . The mentioned illumination restricting to participate other OEMs. This is available with all leading OEMS and will help to participate others OEM.	Clause to be read as for ANPR & RLVD , 6. Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON
Vol.2	1862	VIVOTEK INC.	Volume 2 , 5.4.3.7 Speed Detection Camera Specifications	Page No.254	SR.(1)Image sensor and Effective Pixels (Resolution):-1" or higher, CMOS, Global Shutter, Minimum 9 MP, 4096(H) x 2160(V)	Request you to amend this clause "Image sensor 1/2" or better CMOS GLOBAL Shutter ,Minimum 3MP Camera . Because in 9MP Global shutter Camera is not available. So Please consider it.	Tender conditions shall prevail
Vol.2	1863	VIVOTEK INC.	Volume 2 , 5.4.3.7 Speed Detection Camera Specifications	Page No. 254	SR(4)Fixed Focal Length Lens:25, 35, 50mm option to suit application. Lens must focus visible.	Request you to amend this clause 12-40 mm lens or better , which is meant for SVD & ANPR application .	4. Fixed Focal Length Lens: 12-50mm option to suit application. Lens must focus visible.
Vol.2	1864	VIVOTEK INC.	Volume 2 5.4.2.7 IR – Illuminator)	Page No. 246	SR(3) Beam Angle -10°, 20°, 30°, 60°, 80°, and 95° .	Request you to amend "this clause 20°.40 "which is meant for SVD & ANPR application .Request you to consider it .	Beam Angles : as per OEM requirement
Vol.2	1865	Sophos Technologies	5.3.5 Intranet Firewall with IPS/1.3	180	Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 30 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 10 Million Concurrent firewall connections on device from day 1
Vol.2	1866	Sophos Technologies	5.3.5 Intranet Firewall with IPS/1.4	180	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec	Firewall must support 250K of new connections/sec
Vol.2	1867	Sophos Technologies	5.3.5 Intranet Firewall with IPS/2.2	181	The appliance must not have reported a backdoor vulnerability in OS in past five years	Please remove this clause	Clause deleted
Vol.2	1868	Sophos Technologies	5.3.5 Intranet Firewall with IPS/2.7	181	i) Firewall should have minimum 10 virtual contexts/VDOM	Remove virtual firewall clause from mandatory requirement.	Tender conditions shall prevail
Vol.2	1869	Sophos Technologies	5.3.5 Intranet Firewall with IPS/2.7	181	ii) Firewall should be SD-WAN ready	ii) Firewall should be SD-WAN ready	Tender conditions shall prevail
Vol.2	1870	Sophos Technologies	5.3.5 Intranet Firewall with IPS/2.9	182	The firewall shall achieve the following industry recognized security certification standards: Common Criteria Protection Profile , FIPS 140-2	The firewall shall achieve the following industry recognized security certification standards: Common Criteria Protection Profile, EAL4+, NSS lab recommended	The firewall shall achieve the following industry recognized security certification standards: Common Criteria Protection Profile/EAL4/FIPS 140-2
Vol.2	1871	Sophos Technologies	5.3.6 Next Gen Firewall/1	183	Firewall Solution must have NDPP certification.	Firewall Solution must have NDPP/EAL4+ & ICESA certification.	Firewall Solution must have NDPP//EAL4/ICSA certification.
Vol.2	1872	Sophos Technologies	5.3.6 Next Gen Firewall/5	184	Appliance should offer 40Gbps Firewall throughput & 20Gbps NGFW throughput (with enabling Firewall, PS/Threat Prevention & AVC). This through-put must be under real world production Conditions.	Appliance should offer 40Gbps Firewall throughput & 18Gbps NGFW throughput (with enabling Firewall, IPS, Application & web filter)	Tender conditions shall prevail
Vol.2	1873	Sophos Technologies	5.3.6 Next Gen Firewall/6	184	Should support 5 Gbps of IPsec VPN throughput and must support minimum 10000 VPN user.	Should support 10 Gbps of IPsec VPN throughput and must support minimum 10000 VPN user.	Should support 5 Gbps of IPsec VPN throughput and must support minimum 5000 VPN user
Vol.2	1874	Sophos Technologies	5.3.6 Next Gen Firewall/7	184	Firewall should support 8 Million concurrent sessions and 200K new connections per second.	Firewall should support 20 Million concurrent sessions and 200K new connections per second.	Tender conditions shall prevail
Vol.2	1875	Sophos Technologies	5.3.6 Next Gen Firewall/14	185	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	Firewall should support Nat6in6 (IPv6-to-IPv6), Nat 6in4 (IPv6-to-IPv4) & Nat4in6 (IPv4-to-IPv6) functionality	Firewall should support NAT(IPv6-to-IPv6), NAT(IPv6-to-IPv4) & NAT (IPv4-to-IPv6) functionality
Vol.2	1876	Sophos Technologies	5.3.6 Next Gen Firewall/23	185	The solution must provide a full-featured NBA capability to detect threats emerging from inside the network (i.e. ones that have not passed through a perimeter IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines.	Please remove this	Clause deleted

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1877	Sophos Technologies	5.3.6 Next Gen Firewall/24	185	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	Please remove this	Clause deleted
Vol.2	1878	Sophos Technologies	5.3.6 Next Gen Firewall/25	185	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. On-premise Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and minimum of 2 x 10 ports with populated transceivers as per design requirement.	The solution shall provide on-premise/ cloud based sandbox technology where the objectionable content may be executed and inspected. In case of On-premise based Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and mini-mum of 2 x 10 ports with populated transceivers as per design requirement.	Clause deleted
Vol.1	1879	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Vol 1	Page 28, 2.29. Eligible Goods and Services, and OEM Criteria	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	In vol 2, it is mentioned as follows: 4) OEM undertaking that the quoted product will not become end of sale within next 12 months. 5) OEM undertaking that the quoted product will not become end of support/end of life for next 5 years. We feel this is the point which needs to be followed since Vol II is for scope of work and technical specifications. Please clarify	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.2	1880	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 82, 4 Port POE switch, clause no. 5	Page 82, 4 Port POE switch, clause no. 5	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	6 x 10/100/1000 (PoE+ on all ports) + 2 x combo or dedicated Gigabit SFP, Switch should support Rugged SFPs and all the transceiver should be from the same OEM as the switch	Tender conditions shall prevail
Vol.2	1881	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 82, 4 Port POE switch, clause no. 7	Page 82, 4 Port POE switch, clause no. 7	120 W or Better	180W or Better	Tender conditions shall prevail
Vol.2	1882	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 82, 4 Port POE switch, clause no. 8	Page 82, 4 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 09 Mbps or better Switching capacity: 12 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 16 Gbps or better	Tender conditions shall prevail
Vol.2	1883	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 82, 4 Port POE switch, clause no. 10	Page 82, 4 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 along with multicasting should be supported for future enhancements without changing the hardware.	This is minimum requirement, bidder can propose better solutions
Vol.2	1884	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 83, 4 Port POE switch, clause no. 14	Page 83, 4 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1885	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 83, 4 Port POE switch, clause no. 17	Page 83, 4 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	1886	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1887	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1888	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch, clause no. 19	Page 84, 4 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to PoE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	1889	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch, clause no. 25	Page 84, 4 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	1890	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	1891	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	1892	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	The switch should have support for egress queuing , Auto-QoS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	1893	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 84, 4 Port POE switch	Page 84, 4 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	1894	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	1895	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1896	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 25 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail
Vol.2	1897	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 85, 8 Port POE switch, clause no. 10	Page 85, 8 Port POE switch, clause no. 10	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent ready b) Should support Static Routing Protocols from Day 1 while Dynamic routing protocols like OSPFv2 & OSPF v3 and multicast should be supported for future enhancements without changing the hardware.	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1
Vol.2	1898	FUTURE NETWORKS SOLUTIONS PVT. LTD.	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports at hardware level or IPSEC with SSL encryption on all ports at the logical level from Day 1	Tender Conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1899	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	1900	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 86, 8 Port POE switch, clause no. 14	Page 86, 8 Port POE switch, clause no. 14	RAM: 128 MB	RAM: 1 GB or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	1901	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 86, 8 Port POE switch, clause no. 17	Page 86, 8 Port POE switch, clause no. 17	Power Requirement: Internal power supply	Power Requirement: Internal or external power supply	Tender conditions shall prevail
Vol.2	1902	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 86, 8 Port POE switch, clause no. 19	Page 86, 8 Port POE switch, clause no. 19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to PoE devices wherever required.	Switch should support redundant Dual DC Power input with separate Power input terminal to ensure no break in power.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	1903	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 87, 8 Port POE switch, clause no. 25	Page 87, 8 Port POE switch, clause no. 25	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	5 - 95% (non-condensing) or better & As per Guwahati weather conditions	Tender conditions shall prevail
Vol.2	1904	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	Switch should support IEEE1588 PTP for precision time synchronization	Tender conditions shall prevail
Vol.2	1905	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for IGMP V1, V2 and v3.	Tender conditions shall prevail
Vol.2	1906	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	The switch should have support for egress queuing, Auto-QoS and rate-limit on all the ports	Tender conditions shall prevail
Vol.2	1907	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 87, 8 Port POE switch	Page 87, 8 Port POE switch	New Request	MTBF should be more than 500,000 Hours	Tender conditions shall prevail
Vol.2	1908	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.4	1909	FUTURE NETWINGS SOLUTIONS PVT. LTD.	BOQ-27684	Schedule-B, Serial No. 5.3.2	New Request and Clarification	The Internet router has been considered as only 1 in quantity in the Schedule B of the BOQ file. This lacks resiliency and becomes a single point of failure. Hence, we are requesting to increase the quantity to at least 2. Further, the specs in Vol. 2 has the specs for Internet switch and not as Internet Router, so we are assuming that it is a typo on the BOQ file and it should be Internet switch on both BOQ and specs of Vol. 2 of the RFP. Pls confirm on the same.	Tender conditions shall prevail
Vol.2	1910	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 136, Internet Switch - L3, clause no. 9	Page 136, Internet Switch - L3, clause no. 9	Power supply:230V AC PSU	"Power supply:Redundant and field replaceable 230V AC PSU "	Tender conditions shall prevail
Vol.2	1911	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	1912	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	1913	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1

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Vol.2	1914	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	1915	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 2000 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	1916	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 50,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	1917	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 168, Spine & Leaf Switch, clause no. 39	Page 168, Spine & Leaf Switch, clause no. 39	The solution must have virtualization feature.	The solution must have virtualization feature and should support at least 1000 VRFs	Tender conditions shall prevail
Vol.2	1918	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all OEMs are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	1919	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	1920	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1921	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted
Vol.2	1922	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	1923	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	1924	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	1925	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted

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Vol.2	1926	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1927	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	1928	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	1929	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	1930	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Intranet Firewall with IPS	Intranet Firewall with IPS	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replaceable	Tender conditions shall prevail
Vol.2	1931	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Vol 2+F46	Page no-184, Next generation Firewall , Clause No 4	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	"Suggestions in Justifications 10G interfaces are back compatible to 1G thus if network really has 1G requirement than 10G ports can be used there. Also for a 40G day 1 support means the network is 40G ready and the required number of 1G and 10G becomes redundant as the uplink and downlink can be on 40G and removed."	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	1932	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail
Vol.2	1933	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Next generation Firewall	Next generation Firewall	New Clause Request	Proposed Box Should have 3 or More hot-swappable fan module & that should be Field Replacable	Tender conditions shall prevail
Vol.2	1934	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	1935	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.

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Vol.2	1936	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	1937	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to addendum XII
Vol.2	1938	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Storage solution should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data)	Tender conditions shall prevail
Vol.2	1939	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)	Storage Capacity should be as per Overall Solution Requirement (usable, after configuring in offered RAID/Erasure coded configuration)
Vol.2	1940	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Should support various RAID levels 1, 6, 10 or equivalent Erasure Coding Configurations	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.
Vol.2	1941	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	1942	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	1943	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Storage shall have minimum front-end support for 16Gb and backend support for minimum 12Gb.	Each Storage controller/Node shall have minimum front-end (network) support for 25Gb and backend support for minimum 12Gb.	Clause deleted
Vol.2	1944	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	All the necessary software (GUI Based) to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.	All the necessary software (GUI Based) to configure and manage the storage space, RAID/Erasure coding configuration, logical drives allocation, snapshots etc. are to be provided for the entire system proposed.
Vol.2	1945	FUTURE NETWINGS SOLUTIONS PVT. LTD.	page No. 201, Storage Specifications	page No. 201, Storage Specifications	Additional parameter	Storage feature: The solution should provide inbuilt native deduplication and compression capabilities	Tender conditions shall prevail
Vol.2	1946	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.

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Vol.2	1947	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	The solution should be offered with redundancy of Compute, Hard disk and Connectivity.	The solution should be offered with one additional node for ensuring that there would be no performance degradation in case of 1 node failure.	Tender conditions shall prevail
Vol.2	1948	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	Each converged Node shall be provided with appropriate cache capacity additional to usable storage.	Each converged Node shall be provided with minimum 800GB cache capacity additional to usable storage. Proposed HCI solution shall be able to scale twice the current mentioned capacity.	Tender conditions shall prevail
Vol.2	1949	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 203, Hyper Converged Infrastructure (HCI)	Page No. 203, Hyper Converged Infrastructure (HCI)	Proposed solution shall be able to Track and manage firmware versions ,display & report inventory across all proposed Servers.	Proposed solution shall be able to centrally Track and manage firmware versions ,display & report inventory across all proposed Servers at DC & DRC.	Tender conditions shall prevail
Vol.2	1950	FUTURE NETWINGS SOLUTIONS PVT. LTD.	L2 Switch for POP	L2 Switch for POP	Change Request	Exisiting specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	1951	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 1	Page 302, L2 Switch for POP, Clause No. 1	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports. All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half duplex ports.	The device must support 18x 1GE+ 6 x 10GE.Considering the growth in traffic number of 10G interfaces should be more.18x1G interfaces are sufficient to connect IE switche ring.	The device must support 16x 1GE SFP, 4 x 10GE SFP+ ports. Should have future scalability for minimum 2x40Gbps interface. All proposed transceivers should be from same OEM.
Vol.2	1952	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 2	Page 302, L2 Switch for POP, Clause No. 2	Layer 2	The device should be Layer3 switch or Router with IP/MPLS capabilities.As per city network design,all IE switch ring will terminate on this switch/router. This will act as pre aggregatin or aggregation for ntwork.Having layer 3 and IP/MPLS capabilities on this will ensure that broadcast domain is limited and Servies like Layer3 ,Layer2 ,Multicast can be enabled from this node.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	1953	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 4	Page 302, L2 Switch for POP, Clause No. 4	Minimum 128Gbps Switching fabric capacity	Since the devcie will act as pre aggregation/Agregation device suggest to increase the throughput to 200Gbps.	Minimum 128Gbps Routing Throughput
Vol.2	1954	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 302, L2 Switch for POP, Clause No. 7	Page 302, L2 Switch for POP, Clause No. 7	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum of 64K IPv4/32K IPv6 routes or better
Vol.2	1955	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	All the devcies will deployed in filed and will require high temperature sustainability.Request to increase the temperature to 0 to 65	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	1956	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 9	Page 303, L2 Switch for POP, Clause No. 9	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	Since the devcie will act as pre aggregation/Agregation device suggest to increase the routing scale to 64KIPv4/32KIPv6	Switch should support minimum 64K IPv4/IPv6 routes/hosts

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Vol.2	1957	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 8	Page 303, L2 Switch for POP, Clause No. 8	New features	Multicast will be one of the key feature as we intend to connect cameras and other applicatins in future.The devices must support 4K Multicast routes to achieve the ultimate goal of city network.	Tender conditions shall prevail
Vol.2	1958	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 10	Page 303, L2 Switch for POP, Clause No. 10	Packet Forwarding Rate should be 95 Mpps or better	Since the devciewill act as pre aggregation/Agregation device suggest to increase the Packet Forwarding Rate should be 200 Mpps or better	Clause deleted
Vol.2	1959	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 18	Page 303, L2 Switch for POP, Clause No. 18	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	Jumbo frame standard is is 9000 MTU pls change it to 9000.	Support upto 4K VLANs with jumbo frame handling capability of 9K packet size or better
Vol.2	1960	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 20	Page 303, L2 Switch for POP, Clause No. 20	Support Multicasting	The devices must suport multicast layer 3 VPN,PIM,PIM SSM,IGMP V1,V2,V3.	Clause 20. Support Multicasting with below features ready- i) IPv4 and IPv6 multicast ii) PIM-SM, PIM-SSM iii) IGMPv3, IGMP snooping iv) 4K Multicast Routes
Vol.2	1961	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 22	Page 303, L2 Switch for POP, Clause No. 22	Should support Ring protection	The devcies must support all the ring protection mechanism like IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or IPFRR, MPLS-TE FRR,LFA remote and Local, TI-LFA, BFD with 3.3 msec to achieve ring protection within 50-ms.
Vol.2	1962	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP, Clause No. 28	Page 303, L2 Switch for POP, Clause No. 28	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	The devcies must support all the ring protection mechanism like G.8032, IPFRR,MPLS-TE FRR,LFA remote and Local,TI-LFA,BFD with 3.3 msec to achieve ring rotection with in50msec	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	1963	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The devcies must support 2 Level HQOS for granular Quality of Service	Tender conditions shall prevail
Vol.2	1964	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 304, L2 Switch for POP, Clause No. 39	Page 304, L2 Switch for POP, Clause No. 39	Should support 4 groups of RMON	RMON is very old methodology for network monitoring there are new protocols like Telemetry ,SNMP which should be allowed for better network managemnt and logging	Should support 4 groups of RMON or Telemetry ,SNMP
Vol.2	1965	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The router/layer3 switch must support following layer3 proticools: 1.OSPF V2 and V3,ISIS 2.BGP (IPv4,VPNv4,IPv6) 3.MPLS LDP 4.Multicast VPN,Layer2 VPN,Layer3 VPN,VPLS 5.Segment routing 6.TI-LFA 7.EVPN 8.SR v6	Tender conditions shall prevail
Vol.2	1966	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing FLex-algo should be supported to ensure each category of traffic is getting bandwidth as per their Latency and SLA requirement	Tender conditions shall prevail
Vol.2	1967	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	Segment routing Data Plane monitiring should be supported to ensure that traffic is not blackholed and not dropped due to network issues.	Tender conditions shall prevail
Vol.2	1968	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	New features	The device must support minimum 8 label depth for Segment routing to work as desired.	Tender conditions shall prevail
Vol.2	1969	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 303, L2 Switch for POP,	Page 303, L2 Switch for POP,	Certification	The device series should be CE3.0 certified	Tender conditions shall prevail

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Vol.2	1970	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards. The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	1971	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lambda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	1972	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 4	Page No. 299, DWDM/OTN, Clause No. 4	Equipment must support both 10G and 100G DWDM wavelength (may use difference transponder card)	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	1973	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card. 100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	1974	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC, 1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	1975	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 299, DWDM/OTN, Clause No. 7	Page No. 299, DWDM/OTN, Clause No. 7	The offered system should be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradable in service to carry 100 Gbit/s channels along with 10G channels.	Clarification Request	Refer to Addendum VII (sl no 17)
Vol.2	1976	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 300, DWDM/OTN, Clause No. 10	Page No. 300, DWDM/OTN, Clause No. 10	2) Relative humidity: Up to 90% at non-condensing for the DWDM.	Pls change the relative humidity to 85%.	Refer to Addendum VII (sl no 17)
Vol.2	1977	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 300, DWDM/OTN, Clause No. 11	Page No. 300, DWDM/OTN, Clause No. 11	The attenuation per Km for fibre shall be taken as 0.25 db per km. The link shall be designed with a fibre and OSNR margin of 3db.	We need a network/topology to design.	Refer to Addendum VII (sl no 17)
Vol.2	1978	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	1979	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 295, Core Router, Clause No. 7	Page No. 295, Core Router, Clause No. 7	Should have a minimum capacity of 2Tbps	Should have a minimum capacity of 4 Tbps	Tender conditions shall prevail
Vol.2	1980	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 295, Core Router, Clause No. 10	Page No. 295, Core Router, Clause No. 10	Should have minimum 32GB RAM	Should have minimum 24GB RAM from Day 1 with support to go upto 32GB for future scalability	Should have minimum 16GB RAM
Vol.2	1981	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	1982	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	1983	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125, Workload Automation Tool	Page 125, Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workload refers to Containerised Applications or VM based Application along with Application stack workload. Please Confirm.	This is not part of ICCS stack but part of DC management toolset.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1984	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Please specify if the meaning of workloads refer to either. a. Does Workloads that refer to automating business processes through events/ batch / streaming modes.e.g Business process in smart cities could refer to transfer of data from IoT devices to the BI layer. Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1985	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	Since workloads are configured at unitary levels encompassing API's, procedures, scripts, applications- it is next to impossible to determine costs associated, Request you to please rephrase this as "The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into configuration of each workload"	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1986	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	Page 171,Network Management System / Enterprises Management System(NMS/EMS)	9. Should be additional wireless APs can be registered and configured	Request you to please move this ask from EMS section to Wireless Controller section, As Wireless APs are primarily configured and registered to Wireless Controller, NMS/EMS tool can monitor the fault and performance of network devices using SNMP.	Clause deleted
Vol.2	1987	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	11. Comprehensive event log provides network issue resolution. Solution should be inclusive with hardware, OS, patches, database and any other licenses for their monitoring etc.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications. Please confirm.	Tender conditions shall prevail
Vol.2	1988	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	134 It should have an integrated CMDB for strong Change Management capabilities. Should integrate with existing Helpdesk deployed.	Integrating with existing Helpdesk tool will restrict the participation, And ownership of integration with existing Helpdesk will be a challenge for bidder. It is suggested to remove this clause. Also, solution from Single OEM for monitoring and Helpdesk, will give seamless integration capabilities, Out of box Connectors, Better root cause navigation and Intelligent ticketing, better event enrichment and noise suppression. Bidder should be free to propose new Helpdesk ITIL 2011 based solution with single unified CMDB for better management.	Tender conditions shall prevail
Vol.2	1989	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	Page 178,Network Management System / Enterprises Management System(NMS/EMS)	102. Configuration and patch management: Management platform must provide a tool which tracks and analyzes hardware, database, OS and application server software configurations and lowers the cost of complex operations such as applying software patches, enforcing operational policies and cloning core IT infrastructure systems (such as databases and application servers).	It is recommended, Server Automation solution should analyze servers for Patching, compliance with internal policies or industry standards, based on powerful compliance rules out-of-the-box. Are you also looking for such functionalities? Please Confirm	102. Configuration and patch management: Management platform must provide a tool which tracks and analysis hardware, database, OS, application server software configurations and patches. Bidder may provide separate tool to achieve the desired requirement. All the proposed tool should be integrated with EMS.
Vol.2	1990	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	201 The solution should provide workload automation that provides full stack visibility and control:- resources aware, Application aware, Database aware	It is recommended, Server Automation solution should allow administrators to configure and schedule tasks from a centralized console, including rolling out software, upgrading operating systems, executing commands remotely and targeting computers based on specific hardware and software attributes. Are you looking for such functionalities? Please Confirm	This is not part of ICCCL stack but part of DC management toolset.
Vol.2	1991	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	Page 172,Network Management System / Enterprises Management System(NMS/EMS)	29. Should have ability to correlate events across the entire infrastructure components of SDC.	As per the ask, it looks that you are looking for end-to end fault and performance monitoring of IT infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events. Please confirm.	29. Should have ability to correlate events across the proposed Data Center infrastructure components including Network devices, Servers, Storages, Databases and Applications, including Hardware events.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	1992	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	Page 179,Network Management System / Enterprises Management System(NMS/EMS)	125. Proposed incident tracking system would be ITIL 2011compliant	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Complete 10+ ITIL 2011 process flow for Incident, problem, Change and release, Asset and Service level Management. Please confirm.	Tender conditions shall prevail
Vol.2	1993	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	Page 180,Network Management System / Enterprises Management System(NMS/EMS)	130. It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.	As a part of tender, Helpdesk is one of the major components required here, to log all the network incidents, user requests and tickets Creation. It is recommended to have Helpdesk with Mobile based App so that all the tickets can be effectively manage and monitor for timely action by the Agent. Also, User can raise requests at their ease from Mobile App instead of login to Web URL. Please Confirm.	Tender conditions shall prevail
Vol.2	1994	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	Page 39, City surveillance & ICT Component related performance levels 9. Asset / Inventory Management	9. Asset / Inventory Management	As a good practice, Asset and Inventory management data should be stored on Single CMDB, for effective management and mapping of Assets, same CMDB should be accessed by Helpdesk to any asset related raise incidents/tickets. The Common database will help in seamless tracking and management of assets. Are you looking for Common database or CMDB of helpdesk and Asset Management? Please Confirm	9. Asset / Inventory Management shall be stored on single CMDB.
Vol.2	1995	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended for smooth flow of automation process, "The solution should orchestrate the entire IT workload execution of jobs & processes automatically without manual intervention. It should have the ability to configure recovery of jobs in case of failure." Are you looking for such functionalities? Please Confirm.	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1996	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should provide configurable Business workflows for tasks such as management of data applications. The solution should be able to use learning methods to forecast jobs by monitoring workflows. The Solution should map workflows to business services and their respective deadlines and allows for proactive alerting when a workflow is in danger of missing an SLA. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1997	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	202. The solution should Provide Accurate What/if Capacity Planning based on the real time understanding of resource requirements and should provide Visibility into cost & configuration of each workload	It is recommended, workload solution should have a consolidated view of all jobs and IT process workloads in a centralized dashboard. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1998	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 125,Workload Automation Tool	Page 125,Workload Automation Tool	General Query	It is recommended, Server Automation solution should be able to scan all servers (Windows, Linux and Unix OS to be supported by Server Automation solution) with in the network for missing security patches and compliance. The detection shall be automated and shall trigger the patch through central system. Are you looking for such functionalities? Please Confirm	This is not part of ICCS stack but part of DC management toolset.
Vol.2	1999	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 112.5.2.2.1 Integrated Command Control Platform	Page 112.5.2.2.1 Integrated Command Control Platform	5. The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.

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Vol.2	2000	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 115,5.2.2.1 Integrated Command Control Platform	Page 115,5.2.2.1 Integrated Command Control Platform	48 Adapter studio must have capability to consume data from multiple sources with different communications such as web services, Web Sockets, FTP, Fileserver, MQTT, real-time streams, etc.	The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed. Are you looking for such functionalities? Please Confirm	Yes, The presence of multiple applications and adapters interacting with each other necessitates visibility into their interactions. Hence the presence of a solution that provides an end-to-end view of data pipelines and Manage business SLAs for service delivery and resolve critical issues before deadlines are missed.
Vol.2	2001	FUTURE NETWINGS SOLUTIONS PVT. LTD.	Page 252,5.4.3.5 System Management Requirements	Page 252,5.4.3.5 System Management Requirements	i) The system shall be compiled with automated File Transfer Protocol (FTP) software; this software will push generated speeding incident files to the central control room automatically as they are generated. The software will use the FTP protocol.	It is important that various interactions in the smart city processes necessitate a lot of file transfers. Also it is important that secure channels to send or receive files through HTTPS, SFTP methods. Are you looking for such functionalities? Please Confirm	Tender conditions shall prevail
Vol.2	2002	FUTURE NETWINGS SOLUTIONS PVT. LTD.	New Request	New Request		The OEM should provide the specific solution designing & Core implementation (OEM Low Level Design, DC Core Implementation) support to make sure that their supplied technology & products work as per the design objectives.	Tender conditions shall prevail
Vol.2	2003	FUTURE NETWINGS SOLUTIONS PVT. LTD.	New Request	New Request		Provide an Operations Support Manager for every year from OEM who is familiar with (Customer) business, processes, and technical support history to continually monitor customer technical support needs, track every open service request, and make sure that IT resources, both at OEM and within Customer organization, are aligned appropriately to resolve issues quickly and completely.	Tender conditions shall prevail
Vol.1	2004	BROADCAST ENGINEERING CONSULTANTS INDIA LTD	Vol-1	Page 7, Clause 1.3 & Page 16 Clause 2.8	Bid Security/Earnest Money Deposit (EMD): INR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) online deposit through e Procurement portal.	May kindly Clarify the amount and BG from a nationalised/scheduled bank may be accepted. Justification: 1. The EMD amount mentioned in the clauses at Page 16 & 7 are different. 2. BG should be accepted instead of online payment of EMD. Such a huge cash out go will have serious impact on the Project commercial viability.	EMD shall be INR 2,15,00,000/-. Bidder to Refer Point 1.01 of Amendment 01. Regarding mode of payment of EMD, Bid condition shall prevail.
Vol.1	2005	BROADCAST ENGINEERING CONSULTANTS INDIA LTD	Vol-1	Page 57, Table 1(Pre Qualification Requirements), Sl No. 2 'A'	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet INR 250 Crore Average Annual Turnover requirement	A. The Sole Bidder shall have an average annual turnover of INR 200 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o All members together should meet INR 200 Crore Average Annual Turnover requirement Justification: As per CVC guidelines on procurement, the Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.	Tender conditions shall prevail.
Vol.1	2006	BROADCAST ENGINEERING CONSULTANTS INDIA LTD	Vol-1	Page 57, Table 1(Pre Qualification Requirements), Sl No. 2 'B'	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services Justification: As per CVC guidelines on procurement, the Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2007	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 58, Table 1(Pre Qualification Requirements), SI No. 3	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for CCTV surveillance Project with centralised Video Management System and one (1) integrated CCTV Surveillance Project in last 3 years with at least one of the these component (1) Integrated Traffic Management System project /Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in India with IP Surveillance camera. Justification: Since the ITMS is a new concept and it has not yet matured in Indian context. Secondly, the qualification of ITMS is separately asked in the document; the clubbing of ITMS or its component with the CCTV experience makes the clause restrictive and disallow many prospective bidders from bidding.	Tender conditions shall prevail.
Vol.1	2008	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 39, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. A1	Average annual turnover of Sole bidder or Consortium over the last three Financial years Marks shall be allotted as given below Cost of the Project (INR) Marks More than 500 Cr. 6 >400 Cr. To <=500 Cr. 5 >300 Cr. To <=400 Cr. 4 >250 Cr. To <=300 Cr. 3	Average annual turnover of Sole bidder or Consortium over the last three Financial years Marks shall be allotted as given below Cost of the Project (INR) Marks More than 300 Cr. 6 >250 Cr. To <=300 Cr. 5 >200 Cr. To <=250 Cr. 4 Justification: As per CVC guidelines on procurement, the Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.	Tender conditions shall prevail.
Vol.1	2009	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 40, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B1	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project. Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 15 2 Projects 12 1 Project 10	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on CCTV surveillance with video management/analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project. Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 15 2 Projects 12 1 Project 10	Refer to Addendum VI
Vol.1	2010	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 40, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B2	Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	The criteria should be made applicable to OEMs as it has been done for ICCCC & VMS in Vol-1, Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No B.4.2 & B5 Justification: The ITMS concept is new to India and the technology is not yet matured in India. Secondly, very few System Integrators who have got some Smart City Projects are eligible in this case and such criteria will restrict otherwise competent bidders. Therefore the experience of OEM should be considered.	Refer to Addendum 7 (SI. No. 21)

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)						
Vol.1	2011	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B5, VMS (OEM Criteria)	No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. OEM Shall have supplied minimum 1500 Cameras with own VMS Software for seamless integration in last 4 years Number of Projects Marks <table border="0"> <tr> <td>>= 5 Projects</td> <td>5</td> </tr> <tr> <td>3 to 4 Projects</td> <td>4</td> </tr> <tr> <td>1 Project</td> <td>1</td> </tr> </table> Copy of Completion Certificates from Client mentioning name of VMS Software. OEM to provide PO Copy as reference document	>= 5 Projects	5	3 to 4 Projects	4	1 Project	1	Refer to addendum VI
>= 5 Projects	5												
3 to 4 Projects	4												
1 Project	1												
Vol.1	2012	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 39, Clause 3.6.1-Technical Bid Criteria and Evaluation.		Additional point to be added for experience of MAN/WAN network as the project is having large amount of backbone network implementation	Tender conditions shall prevail.						
Vol.1	2013	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 39, Clause 3.6.1-Technical Bid Criteria and Evaluation.		Wireless Network is a crucial component for the project for automated signalling system. Bidder experience should be included for proper implementation.	Tender conditions shall prevail.						
Vol.1	2014	BROADCAST ENGINEERING CONSULTANT S INDIA LTD	Vol-1	Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B6	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 10 Crores per projects during last Seven (&) years (as on Bid Submission date)	The Sole Bidder or any consortium member (in case of consortium)/OEM have successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 10 Crores per projects during last Seven (&) years (as on Bid Submission date)	Tender conditions shall prevail.						
Vol.2	2015	Athenta Technologies Pvt Ltd	Volume 2, 5.3.4, Network Management System / Enterprises Management System (NMS/EMS)	171	Should be additional wireless APs can be registered and configured	Registering and configuration of Wireless Access point is the feature of Wireless controller and should be part of the Wireless controller specification. Request you to please descope it from NMS/EMS specifications.	Clause deleted						
Vol.2	2016	Athenta Technologies Pvt Ltd	Volume 2, 5.3.4, Network Management System / Enterprises Management System (NMS/EMS)	171	Request for addition	The framework of the tool should be such that we can consolidate the management of various devices e.g. networks, security, storage, application, virtualized platforms & showcase the impact of one on another.	Tender conditions shall prevail						
Vol.2	2017	Athenta Technologies Pvt Ltd	Volume 2, 5.3.4, Network Management System / Enterprises Management System (NMS/EMS)	171	Request for addition	Solution should be a secured Web-based platform with Centralized Dashboard for Enterprise-wide Monitoring & Management of both IT and Facility assets. The solution should have CMDB with SLA & Incident management modules, along with ITIL processes like Problem management, Service management, Change management, Asset & Inventory, Knowledge-base, etc.	Tender conditions shall prevail						

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2018	Athenta Technologies Pvt Ltd	Volume 2, 5.3.4, Network Management System / Enterprises Management System (NMS/EMS)	171	Request for addition	EMS platform must have in-built support for incident recording and processing for both IT & Facility Infrastructure of the Enterprise. It should be capable to have complete asset catalog in the CMDB and facilitate integrated Helpdesk and Knowledge-base functionalities.	Tender conditions shall prevail
Vol.1	2019	Brij Systems Limited	Vol-1	Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'A'	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet INR 250 Crore Average Annual Turnover requirement	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement. In case, consortium member is MSME of same field then average annualturnover relaxation for MSME (not lead bidder) for last 3 years o All members together should meet INR 250 Crore Average Annual Turnover requirement	Tender conditions shall prevail.
Vol.1	2020	Brij Systems Limited	Vol-1	Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'B'	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	Tender conditions shall prevail.
Vol.1	2021	Brij Systems Limited	Vol-1	Page 40, Clause 3.6.1- Technical Bid Criteria and Evaluation. SI No. B2	Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: · Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND · RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks ≥= 3 Projects 10 2 Projects 8 1 Project 6	The criteria should be made applicable to OEMs as it has been done for ICCC & VMS in Vol-1, Page 42, Clause 3.6.1- Technical Bid Criteria and Evaluation. SI No B.4.2 & B5	Refer to Addendum 7 (SI. No. 21)
Vol.1	2022	Brij Systems Limited	Vol-1	Page 42, Clause 3.6.1- Technical Bid Criteria and Evaluation. SI No. B6	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 10 Crores per projects during last Seven (&) years (as on Bid Submission date)	The Sole Bidder or any consortium member (in case of consortium) have successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 5 Crores per projects during last Seven (&) years (as on Bid Submission date)	Tender conditions shall prevail.
Vol.2	2023	Brij Systems Limited	Page 210, 5.4.1.3 ATSC Software Application	Page 210, 5.4.1.3 ATSC Software Application	The system shall have a distributed architecture of subsystems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub- systems (minimum 2 and up to 250). Sub-areas are to be controlled by a regional computer.	This requirement is SCATS (Sydney Coordinated Adaptive Traffic System) specific. Such architectural requirement is not needed for ATCS solutions used in India like CoSoCoSt & SCOOT . Request, please amend this clause - The system shall have a distributed architecture so that signalized junctions can be appropriately grouped into Corridors.	The system shall have a distributed architecture of sub- systems so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 100 Junctions and scalable to 256 Junctions

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2024	Brij Systems Limited	Page 210, 5.4.1.3 ATSC Software Application	Page 210, 5.4.1.3 ATSC Software Application	Up to 100 users should be able to connect to the central ATSC system and up to 30 users to regional computer controlling subsystems with varying levels of security and access at the same time the proposed ATSC system shall be scalable to include any additional junctions in the future.	This requirement is again SCATS specific , Most of the ATCS systems do not use Regional computers so there is no requirement of 100 USERS for ATCS application. More user licenses will increase the extra cost of ATCS application software.	Min 25 users should be able to connect to the central ATSC system and controlling with varying levels of security and access at the same time. The proposed ATSC system shall be scalable to include any additional junctions in the future
Vol.2	2025	Brij Systems Limited	Page 212 5.4.1.3 ATSC Software Application	Page 212 5.4.1.3 ATSC Software Application	When a link is established between two subsystems, the cycle generator of the subsystem linking is speeded up or slowed down (i.e. the cycle time of the subsystem is increased or decreased) until the specified relationship between the two subsystems is achieved. If a junction in a subsystem is required to change its grouping frequently depending on traffic conditions, it should be dynamically linked or delinked with other subsystems.	Requirement seems to SCATS specific , Composite Signal Control strategy as mentioned in RFP do not use regional Computers. AS mentioned in RFP 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) PAGE NO 208. This clause should be deleted because CoSiCoSt do not use this term	Clause stands deleted
Vol.2	2026	Brij Systems Limited	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	d) 32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB	processor with 512 K flash and 128 K RAM. There is No requirement of additional SD cards where controller is connected to control room.	Tender conditions shall prevail
Vol.2	2027	Brij Systems Limited	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	The Traffic Signal Controller equipment should be 64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.	The Traffic Signal Controller equipment should be 32/64-bit as mentioned in pint no 2. there is contradiction in point no 2 and 10.	The Traffic Signal Controller equipment should be 32/64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.
Vol.2	2028	Brij Systems Limited	Page 224 5.4.1.6 Traffic Light Aspects	Page 224 5.4.1.6 Traffic Light Aspects	Operating Temperature Range: As per NOIDA weather conditions Turn Off/Turn ON Time: 75 milli seconds max	Noida Weather condition is different from Guwahati and this clause may please be removed	Operating Temperature Range: As per Guwahati weather conditions Turn Off/Turn ON Time: 75 milli seconds max
Vol.2	2029	Brij Systems Limited	Page 225 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	Page 225 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	The ATCC system shall be deployed on city road primarily on city's entry, exit and at major points of intersection in NOIDA, the objective of the sub- system is to collect traffic data at major points.	Please provide the Quantity and Location of ATCC in BoQ , and Requirement should be the city of Guwahati instead of NOIDA	The ATCC system shall be deployed on city road primarily on city's entry, exit point and other major points where other systems are not covered Guwahati.
Vol.2	2030	Net Expert Tech Pvt Ltd	Vol 2 5.1.3.8 Online UPS for Field Locations	(pages 87-89)	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better	As per industry standards, UPS operating temperature is in the range 0°C to (+)40 °C and storage temperature range is (-)10°C to (+)70°C. This is also in compliance with Guwahati City Climatic conditions which is a humid subtropical climate with average annual temperature of 22.2 °C and average high of 29.5°C , with extremes ranging from 40°C (high) to 2.0 °C (low). In view of this, Operating Temperature range may be fixed as 0°C to (+)45°C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	2031	Net Expert Tech Pvt Ltd	Vol 2 5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	(page 247 & 248)	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better	As per industry standards, UPS operating temperature is in the range 0°C to (+)40 °C and storage temperature range is (-)10°C to (+)70°C. This is also in compliance with Guwahati City Climatic conditions which is a humid subtropical climate with average annual temperature of 22.2 °C and average high of 29.5°C , with extremes ranging from 40°C (high) to 2.0 °C (low). In view of this, Operating Temperature range may be fixed as 0°C to (+)45°C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	2032	Net Expert Tech Pvt Ltd	Vol 2 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever	(Page 36)	7. The Junction Box for UPS with Battery bank needs to be considered separately.	The Bill of Material (BOM) Summary (Page 394-400) does not include separate Junction Box for UPS & Battery Bank; kindly include in BoM the following: 137 nos. dedicated Junction Box for 2 KVA Online UPS for Field Locations (ITMS Crossing) and 757 nos. dedicated Junction Box for 1 KVA Online UPS for Field Locations (CCTV Cameras)	Deleted the clause no. 4.14 Sr. No. 7. The Junction Box for UPS with Battery bank needs to be considered separately. Bidder can Propose the Single Junction box that can be sufficient to house all power equipments, battery and control/networking unit in a single box.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2033	Net Expert Tech Pvt Ltd	Vol 2 5.2.12 UPS 50 KVA at ICCS 5.2.16 Diesel Generator Set (DG) 75 KVA - ICCS	(page 148 & 149) and (Page 150)	5.2.18.3 Electrical Distribution System (Page 156) c) Connection between UPS system and the network switch racks shall be redundant. No single point of failure shall exist in the power connectivity between network racks and UPS system. 5.2.18.5 UPS requirements and features (Page 156) UPS system shall provide a redundant power supply to the following needs: • Servers and important network and storage equipment • Access control, Fire Detection & suppression system and surveillance system 5.3.1.1 Technical Specifications of State Data-Center facilities that are readily available at State Data Centre (SDC). Receiving Power: SDC redundant UPS UPS: UPS system with N+N redundancy Generator: Gen-set with N+1 redundancy	The Bill of Material (BOM) Summary (Page 394-400) specifies only ; 01 no. 50 KVA UPS at ICCS and 01 no. 75 KVA DG at ICCS which does not ensure redundancy as per RFP requirements. Moreover as some applications and equipment shall be hosted at SDC which has N+N redundancy, request you to change qty of 50 KVA UPS and 75 KVA DG to 02 nos. each for ensuring 1+1 or N+N redundancy in power source, ensuring uniformity and eliminating single point of failure in the power circuit1	These clause are not applicable at Temp. ICCS location and will applicable in Permanent ICCS building where . These Power Equipment will work as Redundant Power Equipments.
Vol.2	2034	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.4 Field Junction Box		As the Junction Box shall be providing protection to the critical electronic equipment by withstanding harsh environmental and corrosive conditions such as Rain, Dust, Heat, moisture etc. the build material and quality should be such that the enclosure is able to reduce these threats by eliminating hot spots and condensation thereby decreasing the failure of sensitive communications or other electronic equipment.	Kindly include the following specifications in Field Junction Box : Should be CNC fabricated made of Galvanized Steel with anti-corrosion outdoor powder coating Pure Polyester. Protection from the suns heat using double wall technology, thermal chamber and high-performance insulation to minimise the effects of solar heat gain and the transference of heat/cold There shall be heat insulation between inner wall and outer wall. The insulation material shall be 30mm-50mm PEF. Cooling: Redundant Fans to be mounted for hot air outlet only	Tender conditions shall prevail
Vol.2	2035	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	83	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	For uplinks, SFP ports are required and copper ports of combo will never be utilised, so please change the ports to 2x1G SFP slots which can be equipped with 1G SFP fiber or 1G Base-T copper modules. Please change it as 4 x 10/100/1000 (PoE+) + 2 x 1G Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	2036	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	83	Static Routing Protocols	For multicast of CCTV streams, we recommend to consider PIM-SM(IPv4 and IPv6) for multicast of CCTV streams as considered with 8 port switch. Please change clause as Static Routing Protocols, PIM for IPv4 and IPv6, IPv4 and IPv6 dual stack for host (CCTV) traffic	Tender conditions shall prevail
Vol.2	2037	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	RAM:128 MB Flash Memory: 1 GB or Better	It varies with OEM hardware design and OS size, please consider flash memory of 128MB Please change clause as RAM:128 MB Flash Memory: 128MB or more	Tender conditions shall prevail
Vol.2	2038	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3bt is for HPOE++ i.e. 90w. As non of the cameras requires 90w of PoE power and PoE+ has been asked as per clause 5, we request to relax it. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at

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Vol.2	2039	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.6 PoE+ Switches (Industrial - Rugged) – 4 Port	84	The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001	Please consider wideley adopted ISO 9001 standard, and TL9000 is based on ISO 90001 itself. so we request you to change clause as The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000/ISO 9001 and ISO 14001	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent
Vol.2	2040	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	85	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	For uplinks, SFP ports are required and copper ports of combo will never be utilised, so please change the ports to 4x1G SFP slots which can be equipped with 1G SFP fiber or 1G Base-T copper modules. Please change it as 8 x 10/100/1000 (PoE+) + 4 x 1G Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	2041	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	85	PoE Budget: 150 W for better	For 8 port switch it should be 240watt so that each port support PoE + simultaneously. In 4 port switch as you have mentioned 120watt so for 8 port it should be 240watt.	Tender conditions shall prevail
Vol.2	2042	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	Flash Memory: 1 GB	It varies with OEM hardware design and OS size, please consider flash memory of 128MB Please change clause as Flash Memory: 128MB or more	Tender conditions shall prevail
Vol.2	2043	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3bt is for HPOE++ i.e. 90w. As non of the cameras requires 90w of PoE power and PoE+ has been asked as per clause 5, we request to relax it. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	2044	Net Expert Tech Pvt Ltd	Vol-2 5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 and ISO 14001	Please consider wideley adopted ISO 9001 standard, and TL9000 is based on ISO 90001 itself. so we request you to change clause as The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000/ISO 9001 and ISO 14001	2. The OEM must have well documented Quality Manual and certification of that Quality Processes as per TL9000 /ISO 14001 or equivalent
Vol.1	2045	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.5. Pre-Qualification Criteria	33	The Sole Bidder or Lead Bidder (in case of consortium) should be: <input type="checkbox"/> An Indian firm. <input type="checkbox"/> Registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 5 years as on date of bid submission. Consortium members: <input type="checkbox"/> Maximum three (3) companies are allowed in a consortium including Lead Bidder. <input type="checkbox"/> An Indian firm. <input type="checkbox"/> All members should be registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 3 years as on date of bid submission.	The Sole Bidder or Lead Bidder (in case of consortium) should be: <input type="checkbox"/> An Indian firm. <input type="checkbox"/> Registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 5 years as on date of bid submission. Consortium members: <input type="checkbox"/> Maximum three (3) companies are allowed in a consortium including Lead Bidder. <input type="checkbox"/> An Indian firm. <input type="checkbox"/> All members should be registered under the Companies Act 1956/ 2013 <input type="checkbox"/> In operation in India for a period of at least 3 years as on date of bid submission. For Global companies to provide equivalent proof of incorporation/ registration	Refer to AddendumVI

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Vol.1	2046	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.5. Pre-Qualification Criteria	34	2 B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. . o ICT Infrastructure o IT system integration services	Kindly amend the clause as: "2 B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years o ICT Infrastructure o IT system integration services"	Refer to AddendumVI
Vol.1	2047	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.5. Pre-Qualification Criteria	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 500 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	Refer to AddendumVI
Vol.1	2048	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.6.1 Technical Bid Criteria & Evaluation	39	"A2 - Manpower Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) working in the business unit providing "specific business areas" as mentioned in the above criteria as on date of release of RFP. Marks shall be allotted as given below:" Number of FTE Marks >500 FTE 4 >400 FTE to <=500 FTE 3 >300 FTE to <=400 FTE 2 ~<=300 FTE 1	"Kindly amend the clause as: ""A2 - Manpower Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) as on date of release of RFP. Marks shall be allotted as given below: "" Number of FTE Marks >500 FTE 4 >400 FTE to <=500 FTE 3 >300 FTE to <=400 FTE 2 ~<=300 FTE 1	Refer to AddendumVI
Vol.1	2049	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.6.1 Technical Bid Criteria & Evaluation	40	B1 City Surveillance Projects The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	B1 City Surveillance Projects The Sole Bidder or any consortium member (in case of consortium) oe dedicated OEM should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	Refer to AddendumVI
Vol.1	2050	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.6.1 Technical Bid Criteria & Evaluation	40	"B2 Integrated Traffic Management System The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below" Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	"B2 Integrated Traffic Management System The Sole Bidder or any consortium member (in case of consortium) or dedicated OEM to MSI should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project globally with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System" Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	Refer to Addendum 7 (Sl. No. 21)
Vol.1	2051	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.6.1 Technical Bid Criteria & Evaluation	41	B3 Certification The Sole Bidder or consortium Copies of valid certificates in the name of the bidding entity Note: In case of Consortium, all the criteria should be met by a single member of the consortium	B3 Certification The Sole Bidder or consortium or OEM shall have Copies of valid certificates.	Tender condition shall prevail
Vol.1	2052	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.6.1 Technical Bid Criteria & Evaluation	41	B3 Certification CMM level 3 or above certification	Request you to relax as this is towards software development.	Tender condition shall prevail

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Vol.1	2053	Trafitek Solutions Private Limited (2nd set)	Vol 1 3.6.1 Technical Bid Criteria & Evaluation	41	B4.1 Design, Build and Maintenance of Integrated Command and Control Centre (Bidder Criteria) The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	B4.1 Design, Build and Maintenance of Integrated Command and Control Centre (Bidder Criteria) The Sole Bidder or any consortium member (in case of consortium) or from proposed OEM shall have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Traffic control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	Refer to AddendumVI
Vol.2	2054	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.3 ATSC Software Application	210	Identify the critical junction of a corridor or a region based on maximum traffic demand and saturation. For this purpose, identify the vehicles standing in the queue on the junction based on their presence on stop line using vehicle detectors and then optimize its timing to reduce the queue formation by capturing required data from Vehicle Detectors for ATSC functionality.	Identify the critical junction of a corridor or a region based on maximum traffic demand and saturation. For this purpose, it should utilize the data of vehicle detector required for ATCS operation. Detectors see all traffic in a deep and wide field of view to capture required data for ATCS functionality	Tender conditions shall prevail
Vol.2	2055	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.3 ATSC Software Application	210	The system shall have a distributed architecture of subsystems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub-systems (minimum 2 and up to 250). Sub-areas are to be controlled by a regional computer.	The system shall have a distributed architecture of sub-systems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub-systems (minimum 2 and up to 40). Sub-areas are to be controlled by a regional computer.	The system shall have a distributed architecture of sub- systems so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 100 Junctions and scalable to 256 Junctions
Vol.2	2056	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.3 ATSC Software Application	213	Shall generate alerts to the operator that trigger on customizable conditions in the network (starting with simple drops in flow, up to total queue lengths along emission sensitive roads surpassing a definable threshold)	Shall generate alerts to the operator that trigger on customizable conditions in the network (starting with simple drops in flow or any such parameter)	Tender conditions shall prevail
Vol.2	2057	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.3 ATSC Software Application	216	Intensity Change – The report shall show the brightness of the signal lamp is changed according to the light intensity either manually through keypad or automatically by LDR with time stamp.	Request you to omit from sepcs.	Tender conditions shall prevail
Vol.2	2058	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.4 Traffic Signal Controller	222	Number of signal head outputs: minimum 72 or as required	Number of signal head outputs: minimum 32 or as required	Number of signal head outputs: minimum 36 or higher as per site requirement
Vol.2	2059	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.4 Traffic Signal Controller	222	Signal head compatibility: LED 230VAC or 24VDC with dimming of various intensity levels	· Microprocessor based (32-bit processor CPU- Dual CPU for LAMP/Conflict Voltage current monitoring)	Signal head compatibility: shall be 230 Vac +/- 10% and frequency50+/-5Hz OR 40 V AC OR 12 VDC / 24 V DC
Vol.2	2060	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.4 Traffic Signal Controller	222	Temperature range: 0 – 70 deg. C	Temperature range: 0 – 55 deg. C	Temperature range: 0 – 60 deg. C
Vol.2	2061	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.6 Traffic Light Aspects	224	Standards: EN 12368 compliant	Standards: EN 12368 certified	Tender conditions shall prevail
Vol.2	2062	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.6 Traffic Light Aspects	224	Shall preferably have temperature compensated power supplies for longer LED life.	Request you to relax or make optional this terms	Tender conditions shall prevail
Vol.2	2063	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.8 Pedestrian / Pelican Traffic Signal Controller	228	System shall work on Low voltage DC operation for safety against voltage shock considering safety of pedestrian traffic	System shall work on Low voltage DC or AC operation for safety against voltage shock considering safety of pedestrian traffic	Clause stands deleted

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2064	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.5 Camera /Thermal Vehicle Detector			The thermal traffic sensor has BPL communication to reduce cabling complexity. The thermal sensor will superimpose the TCP/IP network communication on to the power wires. Inside the traffic controller cabinet, a communication interface will demodulate the powerline signal and provide a TCP/IP connection to the traffic controller. The interface board can be used for detection and error output generation and verification. It has connection terminals for up to 4 thermal traffic sensors and allows daisy chaining in serial or parallel for up to 4 thermal traffic sensors. The powerline interface has an Ethernet connection to communicate over a TCP/IP network e.g. to a PC for configuration.	Clause to read as 5.4.1.5 3D Radar /Thermal Vehicle Detector Point No 4, instead of camera read as Vehicle detector
Vol.2	2065	Trafitek Solutions Private Limited (2nd set)	RFP Vol 2 5.4.1.5 Camera /Thermal Vehicle Detector			Regulatory specifications: <ul style="list-style-type: none"> • The thermal traffic sensor will comply with applicable CE directives: <ul style="list-style-type: none"> o Electromagnetic Compatibility directive 2014/30/EU o Reduction of hazardous substances directive 2011/65/EU o Low Voltage Directive 2014/35/EU o Radio Equipment Directive 2014/53/EU • The thermal traffic sensor will comply with FCC Title 47 Part 15 class A 	Clause to read as 5.4.1.5 3D Radar /Thermal Vehicle Detector Point No 4, instead of camera read as Vehicle detector
Vol.1	2066	MobiNext Technologies Private Limited	Vol-1			As per Pre-Qualification Criteria, the bidder should have turnover of 250 CR. Does MSME has any exemption in turnover criteria? Does MSME has exemption for EMD? Does the bidder need office in Assam at the time of bidding?	Regarding EMD exemption, bidder to Refer Point 1.01 of Amendment 01 The registration certificate should be valid as on Date of Submission of Bid.
Vol.1	2067	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.8. Earnest Money Deposit (EMD)	Page 16 of 104	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	1. We request you to kindly accept EMD in the form of Bank Guarantee from Nationalized/Scheduled bank. We request to allow us to submit original EMD in the form of Bank Guarantee at your office premises on or before the last date of bid submission. Please confirm. 2. Request you to kindly provide Bank Guarantee format for Earnest Money Deposit and EMD validity period. 3. We understand that Earnest Money Deposit (EMD) is INR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) as given in Vol-1, 1.3 Bid Data Sheet. Please confirm and kindly amend the clause as "The bid document must be accompanied by the Earnest Money Deposit of Rs.INR 2,15,00,000/- 2,59,00,000/-" 4. As per the guidelines of Dept. of Financial Services, Ministry of Finance, Govt. of India (MOF), a separate advice of Bank Guarantee is to be sent to the advising bank i.e.. Beneficiary's bank through SFMS only, after which only paper Bank Guarantee could become operative. In view of above we request you to provide us following details: - Beneficiary's Bank & branch name - Bank Code - IFSC code -	Refer to AddendumVI
Vol.3	2068	L&T Smart World & Communication	Volume 3: Master Service Agreement, 4.3.6.1. Implementation Phase Related Performance Levels	Page 33 of 50	Team mobilization and commencement of work: Definition: SI is expected to mobilize project team for commencement of work. Commencement of work would mean reporting and availability of SI's resources (90% Key Personnel as per the RFP requirement) at the Authority's office for the project within defined period of 15 days and remaining 10% in next 15 days) Target: Within 15 days of Issuance of LOI or Contract Agreement, whichever is earliest Penalty: Delay beyond 7 calendar days = 0.2% of the contract value Delay beyond 8-15 calendar days = 0.5% of the contract value Delay beyond 15 days may lead to Termination of the Contract at the discretion of the Authority	SI shall be responsible for overall delivery of the project as per scope of work within the timeline specified in RFP. So we request you to remove this penalty and termination clause for Team mobilization and commencement of work.	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2069	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.1 Payment Schedules for Implementation Phase	Page 342 of 400 & Page 345-346 of 400	Schedule A: Site Survey, Design & Drawings- Conducting Detailed Site survey, Submission of Detailed Project report comprising Detailed Design & Drawings of all components listed in Vol-II Payment Breakup: Value commensurate to the discovered quote for Site survey, Design & drawings as per commercial format & For all remaining Items of Schedule-B & Schedule-A (Survey etc) Payment will be done on Prorate basis only after Installation & Commissioning and Final Acceptance Testing of the respective items & services – (90 % of approved rate after satisfactorily installation and 10 % of Approved rate after Commissioning on approval from GSCL)	1. We understand that payment against Schedule-A shall be done on pro-rata basis . Please confirm. 2. Request you to kindly specify the timeline for completion of site survey and submission of project report after signing of contract.	Tender conditions shall prevail
Vol.2	2070	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.1 Payment Schedules for Implementation Phase	Page 342-345 of 400	Schedule B 1.1 Traffic Violation Detection System at Traffic Junctions 1.2 ATSC - Signalization at Traffic Junctions 2.1 CCTV Camera at different location in the city 3.1 Optical Transmission Equipment's for POP Sites 4.1 Wireless- RF Connectivity 5.1 Video Wall System 5.3 Network , ICCC Platform and Switching Devices 7.1 Servers, Switches & Application SW 7.2 Storage & Other Components	We understand that few line items as per Price Bid BOQ "BOQ_27684" are missing in 'Payment Schedules for Implementation Phase'. We request you to kindly all the line items in Price Bid BOQ "BOQ_27684" in Payment Schedule.	Tender conditions shall prevail
Vol.2	2071	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.1 Payment Schedules for Implementation Phase	Page 342-345 of 400	Schedule B 1.1 Traffic Violation Detection System at Traffic Junctions 1.2 ATSC - Signalization at Traffic Junctions 2.1 CCTV Camera at different location in the city 3.1 Optical Transmission Equipment's for POP Sites 4.1 Wireless- RF Connectivity 5.1 Video Wall System 5.3 Network , ICCC Platform and Switching Devices 7.1 Servers, Switches & Application SW 7.2 Storage & Other Components Payment Breakup: (a) On supply – 60 % of approved rate (b) On Installation – 15 % of approved rate (c) On Commissioning -15 % of Approved Rate (d) On Go-live – 10 %	We request you to kindly amend the payment break up for Schedule-B (all line items as per Price Bid BOQ BOQ_27684) as follows: (a) On supply – 60 % of approved rate on pro-rata basis (b) On Installation – 15 % of approved rate on pro-rata basis (c) On Commissioning - 15 % of Approved Rate on pro-rata basis (d) On Go-live – 10 % Request you to confirm the same.	Tender conditions shall prevail
Vol.2	2072	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.1 Payment Schedules for Implementation Phase	Page 345-346 of 400	For all remaining Items of Schedule-B & Schedule-A (Survey etc) Payment will be done on Prorate basis only after Installation & Commissioning and Final Acceptance Testing of the respective items & services – (90 % of approved rate after satisfactorily installation and 10 % of Approved rate after Commissioning on approval from GSCL)	We request you to kindly amend clause as follows: "For '8.1 Shifting & Fixing of all ICCC Equipment's - Temporary Locations to Permanent Building' all remaining Items of Schedule-B & Schedule-A (Survey etc) Payment will be done on Prorate basis only after Installation & Commissioning and Final Acceptance Testing of the respective items & services – (90 % of approved rate after satisfactorily installation and 10 % of Approved rate after Commissioning on approval from GSCL)"	Tender conditions shall prevail
Vol.1	2073	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 4.6. Mobilization Advance	Page 51 of 104	The Employer will, if requested by the CONTRACTOR, make mobilization advance payments of 10(%) percent of the Awarded Contract Value to the CONTRACTOR to assist in defraying the initial expenses that will necessarily be incurred by the CONTRACTOR for mobilization and design. The Mobilization Advance will be given to the CONTRACTOR with Simple Interest of 10 % (Percent) per annum. The Advance payment will be made in two equal installments of 5% (five percent) of the contract price. Advance payment will be paid only after CONTRACTOR submitting unconditional and irrevocable Bank guarantee for an amount equivalent to 110 % (one Hundred and Ten percent) of each installment.	We request GSCL to give interest-free mobilization advance of 10% of contract value within 15 days from the release of LOI/Request order, whichever is earlier, against submission of bank guarantee of requested amount and this Advance Bank Guarantee (ABG) shall be returned to the Contractor, without any interest, post recovery of the entire advance amount paid to the Contractor during execution of the project.	Refer to addendum VI

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Vol.1	2074	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 4.6. Mobilization Advance	Page 52 of 104	Deduction of Mobilization Advance: Mobilization advance shall be deducted starting from Second Interim Payment certificate @ of 10 % (Percent) of the certified amount of Interim payment certificate and to be recovered fully prior to the time when 90 percent (90%) of the work is completed.	We request you to amend the clause as: "Mobilization advance shall be adjusted proportionately among Schedule-B Payment Release."	Refer to addendum VI
Vol.1	2075	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 4.6. Mobilization Advance	Page 52 of 104	A bank Guarantee of 110 (%) percent against the Mobilization advance is to be submitted. The mobilization advances and interest on it shall be adjusted and recovered in the Interim Payment Certificates raised by the Contractor for the work completed as mentioned above. The bank Guarantee submitted against mobilization advance has to be valid till completion of the work. In case, the Contractor fails to mobilize necessary manpower, machinery, materials and any necessary procurement or purchase to start the preliminary work, the bank guarantee against mobilization advance may be forfeited and will lead to the termination of contract.	We request you to amend the clause as below: A bank Guarantee of 100 % 110 (%) percent against the Mobilization advance is to be submitted. The mobilization advances shall be adjusted proportionately among Schedule-B Payment Release, and interest on it shall be adjusted and recovered in the Interim Payment Certificates raised by the Contractor for the work completed as mentioned above. The bank Guarantee submitted against mobilization advance has to be valid till completion of the work. In case, the Contractor fails to mobilize necessary manpower, machinery, materials and any necessary procurement or purchase to start the preliminary work, the bank guarantee against mobilization advance may be forfeited and will lead to the termination of contract.	Refer to addendum VI
Vol.2	2076	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.1 Payment Schedules for Implementation Phase	Page 342-345 of 400	Schedule B 1.1 Traffic Violation Detection System at Traffic Junctions 1.2 ATSC - Signalization at Traffic Junctions 2.1 CCTV Camera at different location in the city 3.1 Optical Transmission Equipment's for POP Sites 4.1 Wireless- RF Connectivity 5.1 Video Wall System 5.3 Network , ICCC Platform and Switching Devices 7.1 Servers, Switches & Application SW 7.2 Storage & Other Components Remarks: Payment against Supply will be done only for approved quantity from GSCL	We understand that approved quantity is the quantity specified in request order. Please confirm.	Tender conditions shall prevail
Vol.2	2077	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.2 Milestones and Payment Schedules for Operations and Maintenance Phase	Page 346 of 400	Year 1 to 5- Payment for O&M after Go-Live <u>Payment Schedule:</u> Equal Quarterly O&M Payments – after every three (3) months	We request you to kindly amend the clause as follows: Year 1 to 5- Payment for O&M after Go-Live <u>Payment Schedule:</u> Equal Monthly Quarterly O&M Payments – at the end of after-every month three (3) months	Tender conditions shall prevail
Vol.2	2078	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 4.26 Project Timelines	Page 60 of 400	Tentative Lead Time: 12 months post issuance of request order	1. We request you to kindly amend the tentative lead time as 18 months 12 months post issuance of request order. 2. We request GSCL to issue request order within 7 days from the date of signing of contract or issue of LOI, whichever is later. Kindly confirm.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2079	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 34 of 104	<p>2 A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years.</p> <p><input type="checkbox"/> In case of consortium:</p> <ul style="list-style-type: none"> o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement <p>B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. .</p> <ul style="list-style-type: none"> o ICT Infrastructure o IT system integration services 	<p>We request you to kindly amend criteria as follows:</p> <p>2 A. The Sole Bidder shall have an average annual turnover of 500 250 Crore over the last three (3) financial years.</p> <p><input type="checkbox"/> In case of consortium:</p> <ul style="list-style-type: none"> o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum INR 50 Cr 30% of the Average Annual Turnover requirement o All members together should meet 500 250 Crore Average Annual Turnover requirement <p>B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 300 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. .</p> <ul style="list-style-type: none"> o ICT Infrastructure o IT/ICT system integration services 	Refer to AddendumVI
Vol.1	2080	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 35 of 104	<p>3 The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.</p>	<p>We request you to kindly amend criteria as follows:</p> <p>3 The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1500 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.</p>	Refer to AddendumVI
Vol.1	2081	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 35 of 104	<p>4 The Sole Bidder or the Lead Bidder should have positive net worth as per the audited consolidated financial statements for last 3 financial years</p>	<p>We request you to kindly amend criteria as follows:</p> <p>4 The Sole Bidder or the Lead Bidder should have positive net worth of minimum INR 150 Crore and other consortium members should have positive network of INR 10 Crore as per the audited consolidated financial statements for last 3 financial years.</p>	Refer to AddendumVI
Vol.1	2082	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 35-36 of 104	<p>8 The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date</p> <p>Note:</p> <ul style="list-style-type: none"> <input type="checkbox"/> In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. <input type="checkbox"/> In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility. 	<p>We request you to kindly amend criteria as follows:</p> <p>8 The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date</p> <p>Note:</p> <ul style="list-style-type: none"> <input type="checkbox"/> In-house projects for their own corporation executed by the bidder shall not be considered for above purpose. <input type="checkbox"/> In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility. 	Refer to AddendumVI
Vol.1	2083	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 33 of 104	<p><input type="checkbox"/> A written undertaking from each of the consortium members, in case of a consortium, duly signed by the authorized signatory, holding a written special power of attorney for this bid on a stamp paper, authorizing the lead bidder incur liabilities and receive instructions for and on behalf of any and all consortium members, and the entire execution of the Contract, including but not limited to payments.</p>	<p>We request you to kindly delete this clause as the specified points of undertaking are already mentioned in consortium agreement.</p>	Bidder shall provide reference of Consortium Agreement as a documentary evidence in support of this Pre-Qualification Requirement.
Vol.1	2084	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 39 of 104	<p>A Bidder Profile (Max. 10 marks)</p> <p>A1 Annual TurnOver</p> <p>Average annual turnover of Sole bidder or Consortium over the last three Financial years Marks shall be allotted as given below</p> <p>More than 500 Cr.- 6 marks</p> <p>>400 Cr. To <=500 Cr. - 5 marks</p> <p>>300 Cr. To <=400 Cr.- 4 marks</p> <p>>250 Cr. To <=300 Cr.- 3 marks</p>	<p>We request you to kindly amend criteria as follows:</p> <p>A1 Annual TurnOver</p> <p>Average annual turnover of Sole bidder or Consortium over the last three Financial years Marks shall be allotted as given below</p> <p>More than 1000 500 Cr.- 6 marks</p> <p>> 800 400 Cr. To <= 1000 500 Cr. - 5 marks</p> <p>> 600 300 Cr. To <= 800 400 Cr.- 4 marks</p> <p>> 500 250 Cr. To <= 600 300 Cr.- 3 marks</p>	Refer to AddendumVI

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Vol.1	2085	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 40 of 104	B1 City Surveillance Projects The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	We request you to kindly amend criteria as follows: B1 City Surveillance Projects The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum project value of INR 100 15 Crores during last seven years (as on Bid Submission date) per project.	Refer to AddendumVI
Vol.1	2086	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 40 of 104	B2 Integrated Traffic Management System The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System	We request you to kindly amend criteria as follows: B2 Integrated Traffic Management System The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum project value of INR 100 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System	Refer to Addendum VII (Sl. No. 21)
Vol.1	2087	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 41 of 104	B3 Certifications The Sole Bidder or any consortium member (in case of consortium) having followings Valid certifications <input type="checkbox"/> ISO 20000(latest) for IT Service Management <input type="checkbox"/> ISO 27001(latest) for Information Security Management System <input type="checkbox"/> CMM level 3 or above certification Profile Marks Three of the above 5 Any two of the above 4 Any one of the above 3 Supporting Documents required The Sole Bidder or consortium Copies of valid certificates in the name of the bidding entity Note: In case of Consortium, all the criteria should be met by a single member of the consortium	We request you to kindly amend criteria as follows: B3 Certifications The Sole Bidder or any consortium member (in case of consortium) having followings Valid certifications <input type="checkbox"/> ISO 9001 (latest) <input type="checkbox"/> ISO 20000(latest) for IT Service Management <input type="checkbox"/> ISO 27001(latest) for Information Security Management System <input type="checkbox"/> CMM level 3 or above certification Profile Marks Three of the above 5 Any two of the above 4 Any one of the above 3 Supporting Documents required The Sole Bidder or consortium Copies of valid certificates in the name of the bidding entity Note: In case of Consortium, all the criteria should be met by a single member of the consortium	Refer to AddendumVI
Vol.1	2088	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 41 of 104	B4.1 Design, Build and Maintenance of Integrated Command and Control Centre (Bidder Criteria) The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	We request you to kindly amend criteria as follows: B4.1 Design, Build and Maintenance of Integrated Command and Control Centre (Bidder Criteria) The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 10 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	Refer to AddendumVI

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Vol.1	2089	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 42 of 104	B4.2 Integrated Command and Control Centre Solution (OEM Criteria) No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. Supporting Documents required: Copy of Completion Certificates from Client mentioning name of CCC Software.	We request you to kindly amend criteria as follows to enable participation of many OEMs and to avoid any undue advantage to bidders in terms of markings against this criteria. B4.2 Integrated Command and Control Centre Solution (OEM Criteria) No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. Number of Projects Marks >= 3 Projects 5 2 to 3 Projects 4 1 Project 3 Supporting Documents required: Copy of Completion Certificates/Purchase Orders from Client/SI mentioning name of CCC Software.	Refer to AddendumVI
Vol.1	2090	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 42 of 104	B5 VMS (OEM Criteria) No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. Supporting Documents required: Copy of Completion Certificates from Client mentioning name of VMS Software.	We request you to kindly amend criteria as follows to enable participation of many OEMs. B5 VMS (OEM Criteria) No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. Number of Projects Marks >= 3 Projects 5 2 to 3 Projects 4 1 Project 3 Supporting Documents required: Copy of Completion Certificates/Purchase Orders from Client/SI mentioning name of VMS Software.	Refer to AddendumVI
Vol.1	2091	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.1 Technical Bid Criteria & Evaluation	Page 42 of 104	B6 Design, Build and Maintenance of Data Centre The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Data Centre Project for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 10 Crores per projects during last Seven (7) years (as on Bid Submission date)	We request you to kindly amend criteria as follows to enable participation of many OEMs. B6 Design, Build and Maintenance of Data Centre The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Data Centre Project for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 20 10 Crores per projects during last Seven (7) years (as on Bid Submission date)	Refer to AddendumVI

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Vol.1	2092	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 36-37 of 104	<p>Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member. a) Copy of Work order/ Contract clearly highlighting the scope of work, Bill of Material and Contract Value signed by the competent authority of the client. b) Project completion certificate (clearly indicating Commencement date, Completion Date and Value of Work done) signed by the competent authority of the client as per format given in Section 7.4. c) In case of ongoing projects with operations & maintenance scope, the completion certificate should specify successful execution and in-operation status of a part of the order meeting the requirement. To substantiate this, a certificate from the Competent Authority of the Client/ Chartered Accountant/ Statutory Auditor has to be provided. d) Bidder should submit the Self-certification (the format of the self-certificate is provided in Section 6.8 of RFP volume I), clearly mentioning project details like scope, value, duration, Project Completion Status, client details etc. The self-certificate shall be signed on the company's letter head duly signed by Company Secretary or Charter Accountant.</p>	<p>Request you to kindly amend the clause as follows Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member. a) Copy of Work order/ Contract clearly highlighting the scope of work, Bill of Material and Contract Value signed by the competent authority of the client. b) Project completion certificate/Go-Live certificate/Phase Completion Certificate (clearly indicating Commencement date, Completion Date and Value of Work done) signed by the competent authority of the client as per format given in Section 7.4. c) In case of ongoing projects with operations & maintenance scope, the completion certificate should specify successful execution and in-operation status of a part of the order meeting the requirement. To substantiate this, a certificate from the Competent Authority of the Client/ Chartered Accountant/ Statutory Auditor has to be provided. d) Bidder should submit the Self-certification (the format of the self-certificate is provided in Section 6.8 of RFP volume I), clearly mentioning project details like scope, value, duration, Project Completion Status, client details etc. The self-certificate shall be signed on the company's letter head duly signed by authorized signatory. Company Secretary or Charter Accountant.</p>	Refer to AddendumVI
Vol.1	2093	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 37 of 104	<p>2. In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, than the following additional documents are required: <input type="checkbox"/> Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company. <input type="checkbox"/> Shareholding pattern of the bidding entity as per audit reports.</p>	<p>Request you to kindly amend the clause as follows 2. In case the project experience (Technical) shown is that of the bidder's parent / 100% subsidiary /sister concern company, than the following additional documents are required: <input type="checkbox"/> Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company. <input type="checkbox"/> Shareholding pattern of the bidding entity as per audit reports.</p>	Refer to AddendumVI
Vol.1	2094	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.5. Pre-Qualification Criteria	Page 37 of 104	<p>4. Bidder (or consortium member if any) may submit the Self-certification, clearly mentioning project details like scope, value, duration, client details etc. as required for the evaluation criteria. The self-certificate shall be signed on the company's letter head duly signed by Company Secretary or Charter Accountant.</p>	<p>We request you to kindly delete this clause.</p>	Refer to AddendumVI
Vol.2	2095	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.0 ANNEXURE II: PAYMENT SCHEDULE AND MILESTONES & 4.26 Project Timelines	Page 341 of 400 & Page 60 of 400	<p>GSCL shall issue a "Request Order" in writing, indicating the number of units of Hardware and Software to be supplied along with the location (Project Site). Upon getting the Request Order, the SI shall promptly and as soon as possible within the lead time specified in the request order, supply, install and implement specified numbers of hardware and software at stated project site and commissioned the same. GSCL shall specify the Lead Time in Request Order. & Tentative Lead Time: 12 months post issuance of request order</p>	<p>We understand that GSCL will issue a single Request Order covering the entire scope of work as per RFP. Please confirm.</p>	Refer to AddendumVI
Vol.2	2096	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.0 ANNEXURE II: PAYMENT SCHEDULE AND MILESTONES	Page 341 of 400	<p>The system Integrator should submit Project plan and Procurement plan as mentioned in Tender document for approval of GSCL. As per approved Project plan and procurement plan, subsequent request orders shall be place to the SI.</p>	<p>Request you to kindly specify the timeline for submission of project plan and procurement plan after signing of contract.</p>	Refer to AddendumVI

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Vol.2	2097	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 4.26 Project Timelines	Page 60 of 400	Approximate Time for Issuance of Request Order: One-week post issue of LOI/ completion of site survey activity Tentative Scope/ Approximate Sizing: 1 Command and Control Center (ICCC) IT hardware 2 Command and Control Center (ICCC) non-IT equipment 3 Command and Control Center (ICCC) – software 4 Command and Control Center Viewing for (ICCC) IT hardware 5 DC – Hardware 6 DC – Software 7 DC – non-IT equipment Tentative Lead Time: 12 months post issuance of request order	1. We request you to kindly specify the timeline for completion of site survey activity post signing of contract. 2. We understand that request order shall cover entire scope of work as per RFP. Please confirm.	Tender conditions shall prevail
Vol.2	2098	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 7.2 Milestones and Payment Schedules for Operations and Maintenance Phase	Page 346 of 400	The Operations and maintenance phase will start as soon as Go-Live for each phase occurs.	We understand that there's only Request Order and Operations and maintenance phase will start at the completion of work of request order. Please confirm.	Tender conditions shall prevail
Vol.1	2099	L&T Smart World & Communication	Volume 1: Instruction to Bidders 3.6.1 Technical Bid criteria and Evaluation	Page 44 of 104	Proof of Concept (POC) 1. Need to demonstrate the ICCC Control Room setup with visualization (2*2 Screen – 5 Marks) 2. Integration with Security & Surveillance System (Surveillance Cameras, SVD, RLVD & ANPR – 5 Marks) POC to be performed as per use case to be provided by GSCL/ GSCL nominated agency	Kindly share the Use cases to be performed in POC.	Will be communicated to pre-qualified bidders.
Vol.1	2100	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.3 Key Personnel Criteria	Page 46 of 104	1 Project Manager a. Education: Full Time MCA/ M.Tech/ B.Tech/ B.E. from a reputed institute b. Total Experience: At least 12 years in IT sector c. Should have more than 5 years of experience of handling such large projects as a project manager d. Should have PMP or Prince2 certification e. Should preferably have e-Governance project experience	Request you to kindly amend the clause as follows 1 Project Manager a. Education: Full Time MCA/ M.Tech/ B.Tech/ B.E. from a reputed institute b. Total Experience: At least 12 years in IT/ICT sector c. Should have more than 5 years of experience of handling such large projects as a project manager d. Should have PMP or Prince2 certification e. Should preferably have e-Governance project experience	Refer to AddendumVI
Vol.1	2101	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.3 Key Personnel Criteria	Page 46 of 104	2 Integrated Command and Control Centre (ICCC) Expert a. Education: Full time M. Tech/ B. Tech/ B.E. from a reputed institute b. Experience: Minimum 10 years of IT experience c. Should have experience in Control and Command Centre implementation for minimum 2 projects	Request you to kindly amend the clause as follows 2 Integrated Command and Control Centre (ICCC) Expert a. Education: Full time M. Tech/ B. Tech/ B.E./MCA from a reputed institute b. Experience: Minimum 10 years of IT/ICT experience c. Should have experience in Control and Command Centre implementation for minimum 2 projects	Refer to AddendumVI
Vol.1	2102	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.3 Key Personnel Criteria	Page 46-47 of 104	3 Solution Architect b. Total Experience: At least 10 years in IT sector 4 Network & Security Infrastructure Expert b. Experience: Minimum 10 years of IT experience 5 Security & Surveillance Expert b. Total Experience: At least 10 years in IT sector 6 Integrated Traffic Management Expert b. Total Experience: At least 10 years in IT sector 7 Server & Storage Expert b. Total Experience: At least 10 years in IT sector	Request you to kindly amend the clauses as follows 3 Solution Architect b. Total Experience: At least 10 years in IT/ICT sector 4 Network & Security Infrastructure Expert b. Experience: Minimum 10 years of IT/ICT experience 5 Security & Surveillance Expert b. Total Experience: At least 10 years in IT/ICT sector 6 Integrated Traffic Management Expert b. Total Experience: At least 10 years in IT/ICT sector 7 Server & Storage Expert b. Total Experience: At least 10 years in IT/ICT sector	Refer to AddendumVI

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Vol.1	2103	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.8. Earnest Money Deposit (EMD)	Page 16 of 104	The EMD may be forfeited in any of the following circumstances: a. If a bidder withdraws its bid during the period of bid validity. b. In case of a successful bidder, if the bidder fails to submit the performance bank guarantee and/or sign the contract in accordance with this RFP.	Request you to kindly amend clause as: The EMD may be forfeited in any of the following circumstances: a. If a bidder withdraws its bid during the period of bid validity. b. In case of a successful bidder, if the bidder fails to submit the performance bank guarantee and/or sign the contract in accordance with this RFP.	Refer to AddendumVI
Vol.1	2104	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.4 Manpower Deployment	Page 47 of 104	3.6.4 Manpower Deployment SI shall deploy Manpower during implementation and O&M phases. The deployed resource shall report to GSCL Project In-charge for Smart City Project and work closely with Program Management Office of the project. Following are the minimum resources required to be deployed in the Project (Price should be quoted accordingly in commercial bid format), however SI may deploy additional resources based on the need of the Project and to meet the defined SLAs in this RFP:	There are no separate line items in Price Bid BOQ for quoting manpower charges during implementation and O&M. Kindly clarify.	Bidder has to load the manpower deployment cost in the O&M schedule and no separate line item shall be provided.
Vol.1	2105	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.4 Manpower Deployment	Page 48 of 104	<u>Minimum Deployment during Operation and Maintenance phase</u> 4 Network & Security Infrastructure Expert - 100% 5 Security & Surveillance Expert - 100% 6 Integrated Traffic Management Expert - 100% 7 Server & Storage Expert - 100%	We request you to kindly modify as mentioned below: Minimum Deployment during Operation and Maintenance phase 4 Network & Security Infrastructure Expert - Onsite Support to Project team on need basis 100% 5 Security & Surveillance Expert - Onsite Support to Project team on need basis 100% 6 Integrated Traffic Management Expert - Onsite Support to Project team on need basis 100% 7 Server & Storage Expert - Onsite Support to Project team on need basis 100%	Tender conditions shall prevail.
Vol.2	2106	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 4.24.2 Network O&M, Payments – Responsibility Matrix	Page 58 of 400	Payment towards ROW & RI Charges -Reimbursable by GSCL at actual	1.We understand that ROW & RI charges will be reimbursable by GSCL and Bidder Shall not quote the same in the Price bid and charges are over and above the contract value . Kindly Confirm. 2. In the Price Bid BOQ, Request you to remove the lines for RI in each Section.	1. Yes, ROW & RI charges will be reimbursable by GSCL and Bidder Shall not quote the same in the Price bid and charges are over and above the contract value . 2.Remaining as per RFP
Vol.2	2107	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	Page 44 of 400	ROW Permission will be taken by the SI and GSCL will assist the SI for any paperwork related to ROW permission. Cost related to this will be directly paid to ROW issuing authority by GSCL	We understand that SI will take only ROW permissions from all departments and the cost for the same shall be reimbursable by GSCL. Permission for all ROW & RI (related to Pole erection, OFC laying etc.) ,GSCL will facilitate to SI related to paper work. Kindly Confirm.	Yes, SI will take only ROW permissions from all departments and the cost for the same shall be reimbursable by GSCL. Permission for all ROW & RI (related to Pole erection, OFC laying etc.) ,GSCL will facilitate to SI related to paper work
Vol.2	2108	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 4.21 Network Connectivity (OFC & RF) for ICC, DC and other Field Sensors	Page 44 of 400	The System Integrator (SI) will require Right of Way (ROW) and permissions from following departments/ agencies for smooth implementation of CCTV City Surveillance, ITMS, ANPR System and Speed Violation Detection System in Assam a) Police Department, Assam Police b) APDCL c) Highway Authorities (NH/NHA) d) Road & Building Department e) PWD f) Other Government agencies as required for system implementation	We understand that SI will take only ROW permissions from all departments and the cost for the same shall be reimbursable by GSCL. Permission for all ROW & RI (related to Pole erection, OFC laying etc.) ,GSCL will facilitate to SI related to paper work. Kindly Confirm.	Yes, SI will take only ROW permissions from all departments and the cost for the same shall be reimbursable by GSCL. Permission for all ROW & RI (related to Pole erection, OFC laying etc.) ,GSCL will facilitate to SI related to paper work

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Vol.2	2109	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 4.21 Network Connectivity (OFC & RF) for ICCCC, DC and other Field Sensors	Page 44 of 400	<p>ROW permission required for implementation the following of the project.</p> <p>a) Pole Erection b) Main / Field Junction box installation c) OFC related work d) Wireless (RF) connectivity related work e) Laying of Data cable and electrical cable f) Electrical Connection with electricity meter installation at junction g) Permission for changes in Building h) Permission for State Level Control Centre and City Level Control Center</p>	<p>We understand that SI will take only ROW permissions from all departments and the cost for the same shall be reimbursable by GSCL. Permission for all ROW & RI (related to Pole erection, OFC laying etc.) ,GSCL will facilitate to SI related to paper work. Kindly Confirm.</p>	<p>Yes, SI will take only ROW permissions from all departments and the cost for the same shall be reimbursable by GSCL. Permission for all ROW & RI (related to Pole erection, OFC laying etc.) ,GSCL will facilitate to SI related to paper work</p>
Vol.2	2110	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 6.1.1 Requirement Survey Phase	Page 320 of 400	<p>x. The SI shall directly interact with electricity boards for provision of mains power supply at all desired locations for field solution. GSCL shall facilitate the same. The recurring electricity charges will be borne by GSCL as per actual consumption.</p>	<p>1.We understand that the One time electricity charges at all desired locations for field solution/Junctions shall be reimbursed to SI on submission of invoices on pro rata basis. One time Electricity charges shall be over & above the contract value and shall not be considered for financial bid evaluation. Kindly Confirm.</p> <p>2. Power Recurring charges for all field locations/junctions, CCC,DC,DR and fuel charges for DG set for 5 years shall be borne by GSCL. Kindly Confirm.</p> <p>3. Power connections during Implementation and O&M for ICCCC (Temporary and Permanent), DC, DR shall be under the scope of GSCL. Kindly Confirm.</p>	<p>Tender conditions shall prevail</p>
Vol.2	2111	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 4.6.3 Electrical Works and Power Supply	Page 23 of 400	<p>The SI shall directly interact with APDCL for provision of mains power supply at all locations for ICCCC field systems. The SI shall be responsible to pay the electricity bills including connection charge, meter charge, recurring charges etc. to the APDCL directly. SI shall have to submit the challan of bill submission to GSCL. GSCL will reimburse the amount deposited by the SI after verification in next billing cycle.</p>	<p>1.We understand that the One time electricity charges at all desired locations for field solution/Junctions shall be reimbursed to SI on submission of invoices on pro rata basis. One time Electricity charges shall be over & above the contract value and shall not be considered for financial bid evaluation. Kindly Confirm.</p> <p>2. Power Recurring charges for all field locations/junctions, CCC,DC,DR and fuel charges for DG set for 5 years shall be borne by GSCL. Kindly Confirm.</p> <p>3. Power connections during Implementation and O&M for ICCCC (Temporary and Permanent), DC, DR shall be under the scope of GSCL. Kindly Confirm.</p>	<p>Tender conditions shall prevail</p>
Vol.2	2112	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications 4.15 Power & UPS - for Field Locations	Page 38 of 400	<p>SI Shall coordinate with Energy distribution Company for provision of power for field installations. Desired energy meters shall be installed in the junction box at appropriate locations. Energy consumption costs shall be borne by SI during implementation and O&M Period which will be reimbursed by GSCL at actual.</p>	<p>1.We understand that the One time electricity charges at all desired locations for field solution/Junctions shall be reimbursed to SI on submission of invoices on pro rata basis. One time Electricity charges shall be over & above the contract value and shall not be considered for financial bid evaluation. Kindly Confirm.</p> <p>2. Power Recurring charges for all field locations/junctions, CCC,DC,DR and fuel charges for DG set for 5 years shall be borne by GSCL. Kindly Confirm.</p> <p>3. Power connections during Implementation and O&M for ICCCC (Temporary and Permanent), DC, DR shall be under the scope of GSCL. Kindly Confirm.</p>	<p>Tender conditions shall prevail</p>

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Vol.3	2113	L&T Smart World & Communication	Volume 3: Master Service Agreement 4.16 Civil and Electrical Works	Page 39 of 400	Electricity Charges for implementation and O&M period for all the systems has to be borne by the SI and cost of electricity will be reimbursed on monthly basis to SI by GSCL.	<p>1.We understand that the One time electricity charges at all desired locations for field solution/Junctions shall be reimbursed to SI on submission of invoices on pro rata basis. One time Electricity charges shall be over & above the contract value and shall not be considered for financial bid evaluation. Kindly Confirm.</p> <p>2. Power Recurring charges for all field locations/junctions, CCC,DC,DR and fuel charges for DG set for 5 years shall be borne by GSCL. Kindly Confirm.</p> <p>3. Power connections during Implementation and O&M for ICCCL (Temporary and Permanent), DC, DR shall be under the scope of GSCL. Kindly Confirm.</p>	<p>For 1 & 2- Agreed</p> <p>For 3. for temporary, SI has to arrange however, cost to state electricity department shall be reimbursible at actual and shall not be part of the contract price. For permanent, it shall be under the scope of GSCL</p>
Vol.3	2114	L&T Smart World & Communication	Volume 3: Master Service Agreement 27. Performance Security	Page 24 of 50	SI shall furnish Performance Security to the Authority at the time of signing the Contract which shall be equal to 10% of the value of the Contract and shall be in the form of a Bank Guarantee from a Nationalized / Scheduled Bank having branch at Guwahati in the Proforma given in Annexure 5 (a) RFP volume I within 15 days after issuance of letter of intent (LOI) or Letter of Award (LOA) which would be valid up to a period of six months (6) after the contract completion period i.e., 'Go- Live' + 60 months of O&M.	<p>We request you to amend the clause as mentioned below: SI shall furnish Performance Security to the Authority :</p> <p>1. At the time of signing the Contract - which shall be equal to 10% 5% of the value of the Contract and price quoted in Schedule A+Schedule B of Price Bid BOQ and the bank guarantee shall be valid till 'Go-Live'.</p> <p>2. At the start of O&M phase - 5% of the value of the price quoted in Schedule C of Price Bid BOQ and the bank guarantee shall be valid till 60 months from the date of Go-Live.</p> <p>Performance Security shall be in the form of a Bank Guarantee from a Nationalized / Scheduled Bank having branch at Guwahati in the Proforma given in Annexure 5 (a) RFP volume I within 15 days after issuance of letter of intent (LOI) or Letter of Award (LOA) which would be valid up to a period of six months (6) after the contract completion period i.e., 'Go- Live' + 60 months of O&M.</p>	Tender conditions shall prevail.
Vol.3	2115	L&T Smart World & Communication	Volume 3: Master Service Agreement 28. Liquidated Damages:	Page 24 of 50	<p>28.1 If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter.</p> <p>28.2. The deduction shall not in any case exceed 10 % of the contract value.</p>	<p>We request you to amend the clauses as mentioned below: 28.1 If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of undelivered portion of contract value (excluding the O&M value quoted in Schedule - C of Price Bid BOQ) for a milestone/quarter for the deliverables.</p> <p>28.2. The deduction shall not in any case exceed 5% 10 % of the contract value.</p>	Tender conditions shall prevail.
Vol.3	2116	L&T Smart World & Communication	Volume 3: Master Service Agreement 29. Limitation of Liability:	Page 24 of 50	<p>SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher.</p> <p>This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services.</p> <p>29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services.</p>	<p>We understand the limitation of liability of SI shall be limited to 100% of contract value. Hence, request you to amend the clause as mentioned below: SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher. This limitation of liability shall not affect SI's direct liability, if any, for damage to Third Parties caused by SI's or any person or company acting on behalf of SI in carrying out the Services wilful misconduct and gross negligence, to extent permitted under law.</p> <p>29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services.</p>	Refer SI 3.01, Addendum-1

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Vol.3	2117	L&T Smart World & Communication	Volume 3: Master Service Agreement 10. Bidder's Obligations	Page 9 of 50	SI shall ensure that none of the Key Personnel (refer Section 3.6.2 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	We request you to modify the clause as mentioned below: SI shall ensure that none of the Key Personnel (refer Section 3.6.2 of the RFP Volume I proposed) and manpower exit from the project due to reasons not in control of SI (like resignation of the resource, death or medical incapacity etc.) during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs 50,000 per such replacement shall be imposed on SI.	Refer to AddendumVI
Vol.3	2118	L&T Smart World & Communication	Volume 3: Master Service Agreement 14. Taxes	Page 17 of 50	14. Taxes	We request you to add the below clause: 14.7 If, after the date of this Agreement, there is any change of rate of levy under the existing applicable laws of India with respect to taxes and duties, which are directly payable by the Purchaser for providing the goods and services i.e. service tax or any such other applicable tax from time to time, which increase or decreases the cost incurred by the SI in performing the Services, then the remuneration and reimbursable expense otherwise payable to the SI under this Agreement shall be increased or decreased accordingly by correspondence between the Parties hereto. However, in case of any new or fresh tax or levy imposed after submission of the proposal the SI shall be entitled to reimbursement on submission of proof of payment of such tax or levy.	Refer to AddendumVI
Vol.3	2119	L&T Smart World & Communication	Volume 3: Master Service Agreement 14. Taxes	Page 31 of 50	41.1. Liquidated Damages The liquidated damages shall come into effect once the notification of Award has been issued by the Authority. It would be mainly applicable on the implementation phase of the project.	We request you to modify the clause as mentioned below: The liquidated damages shall come into effect once the request order notification of Award has been issued by the Authority. It would be mainly applicable on the implementation phase of the project.	Tender conditions prevails
Vol.3	2120	L&T Smart World & Communication	Volume 3: Master Service Agreement 43. Penalties	Page 32 of 50	43.2. Performance Penalty for not meeting a measurement parameter for any two months in consecutive quarters shall result in twice the penalty percentage of that respective measurement parameter in the third quarter for all the three months 43.4. Three consecutive quarterly deductions of 30 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	We request you to kindly delete these clauses.	Refer to AddendumVI
Vol.1	2121	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	h) The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents. i) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	We request you to kindly delete these OEM criteria as the qualification criteria for VMS OEM and ICCC OEM is already given under Technical Bid Evaluation criteria. The deletion of these pre-requisites for OEM will enable participation of more OEMs.	Tender conditions shall prevail.
Vol.1	2122	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	c) The OEM for each products or technology quoted should be in the business of that product or solution or technology for at least 3 years as on the date of release of the RFP. f) The proposed OEM should have installed base of at least 20% of the quoted product in terms of volume in a single project.	1. We request you to confirm that MSMEs/Start-ups shall be exempted from this requirement of 3 years existence in business. 2. We request you to kindly remove the clause (f) to enable participation of MSME/Start-up.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2123	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	We request you to modify clauses as below: e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 6 10 years from the date of bidding.	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.1	2124	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	m) All hardware items should to be quoted with 5 years warranty from OEM and onsite support and services. n) All software/subscription/licenses should be quoted with 5 years warranty, updates, upgrades (wherever applicable), support and services from OEM.	Request you to kindly amend the clause as below: m) All hardware items should to be quoted with 5 years warranty from OEM and onsite/offsite support and services. n) All software/subscription/licenses should be quoted with 5 years warranty, updates, upgrades (wherever applicable), support and services from OEM.	Tender conditions shall prevail.
Vol.1	2125	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.30. Right to vary quantity and change in scope	Page 29 of 104	a) At the time of award of contract and post award of work, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.	We request you to kindly limit the quantity of variation to $\pm 15\%$ of the quantities specified in the bidding document.	Tender conditions shall prevail.
Vol.1	2126	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.30. Right to vary quantity and change in scope	Page 29 of 104	b) If the Authority does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document. c) Fall Clause will be applicable as per Assam Government Procurement Manual.	We request you to kindly amend clauses as below: b) If the Authority does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents within the limit of quantity variation (+/-15%) due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document. c) Fall Clause will be applicable as per Assam Government Procurement Manual.	Tender conditions shall prevail.
Vol.1	2127	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.29. Eligible Goods and Services, and OEM Criteria	Page 27 of 104	b) The Bidder shall quote only one specific make and model for each of the goods. Providing more than one option for each component shall not be allowed.	We request you to kindly allow us to propose multiple makes for the auxiliary systems like Servers, Storage, Networking, Bandwidth, Cyber Security Solution, Junction boxes, Video Wall, Poles etc as the same are only support systems and do not play a role in the overall function of the project. This will enable the SI with optimal solution during the project execution and will benefit GSCL with competitive offers ensuring timely delivery of the project.	Tender conditions shall prevail.
Vol.1	2128	L&T Smart World & Communication	Volume 1: Instruction to Bidders 6.3. Company profile	Page 63 of 104	Copy of audited financial statements or declaration from the appointed statutory auditor/ CA to be provided as proof of the financial turnover. <input type="checkbox"/> Self certified copy of Certificate from statutory auditor for Positive net worth as per audited consolidated financial statements for last three financial years shall be submitted	We request you to amend the clause as below Copy of audited financial statements or declaration from the appointed statutory auditor/ CA to be provided as proof of the financial turnover. <input type="checkbox"/> Self certified copy of Certificate from statutory auditor /CA for Positive net worth as per audited consolidated financial statements for last three financial years shall be submitted	Refer to AddendumVI
Vol.1	2129	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 6.2. Pre-Qualification Bid Covering Letter	Page 61 of 104	a. We hereby acknowledge and unconditionally accept that the Authority can at its absolute discretion apply whatever criteria it deems appropriate, not just limiting to those criteria set out in the RFP and related documents, in short listing of Agency for providing services.	We request you to kindly amend clause as below: a. We hereby acknowledge and unconditionally accept that the Authority can at its absolute discretion apply whatever criteria it deems appropriate, not just limiting to those criteria set out in the RFP and related documents, in short listing of Agency for providing services.	Refer to AddendumVI
Vol.2	2130	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 12.5 Locations for Integrated Command & Control Center (ICCC)	Page 393 of 400	B. Permanente Locations of ICCC A piece of land has been identified near Panjabari, Guwahati & GSCL will construct the G+4 building within 24 Months.	We request you to kindly give exact location of permanent ICCC location for ensuring network feasibility and for proper estimation of shifting charges from temporary ICCC to permanent ICCC.	Will be provided to winning SI bidder

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2131	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 3.1 Project Background	Page 9 of 400	Permanent Phase: Once the permanent ICCC Building is ready, SI must make all the shifting arrangement from the temporary ICCC building to the permanent ICCC building and quote a lump sum /price for the same in the price bid. The shifting must happen in a time bound manner & shall be completed within 30 days so that the all the services can be restored on priority.	We request you to kindly amend the clause as below Permanent Phase: Once the permanent ICCC Building is ready, SI must make all the shifting arrangement from the temporary ICCC building to the permanent ICCC building and quote a lump sum /price for the same in the price bid. The shifting must happen in a time bound manner & shall be completed within 60 days from the date of official notification from GSCL 30 days so that the all the services can be restored on priority. Suitable extension of time shall be given to SI incase of any delays not attributable to SI.	Tender conditions shall prevail
Vol.2	2132	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 5.6.4 Shifting of ICCC to Permanent Building	Page 319 of 400	Shifting of all IT & Non-IT equipment's, including the DG, UPS/Power Plant equipment's will be under SI scope of work. SI shall be responsible for the proper handling of all equipment's while shifting, installation & commissioning at new permanent ICCC building. New permanent ICCC building will be having all interior and new furniture works readily available, hence old furniture (which will be not used in permanent ICCC) from temporary ICCC location will be auctioned.	1. We request you to kindly amend the clause as below: Shifting of all IT & Non-IT equipment's, including the DG, UPS/Power Plant equipment's will be under SI scope of work. SI shall be responsible for the proper handling of all equipment's while shifting, installation & commissioning at new permanent ICCC building. Any damage/additional expenses incurred for shifting of ICCC IT & Non-IT equipments shall be reimbursed to SI. New permanent ICCC building will be having all interior and new furniture works readily available, hence old furniture (which will be not used in permanent ICCC) from temporary ICCC location will be auctioned. 2. We understand that Go-live need not be taken a second time after shifting. Also if any disruption of service due to the shifting shall not be counted in the SLA. Please confirm.	Tender conditions shall prevail
Vol.3	2133	L&T Smart World & Communication	Volume 3: Master Service Agreement 8. Approvals and Required Consents	Page 7 of 50	8.1. The Authority shall extend necessary support to SI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the "Approvals") necessary for SI to provide the Services. The costs of such Approvals shall be borne by SI. Both parties shall give each other all co-operation and information reasonably.	We request you to consider the payment for approvals to be made as per the invoices raised by the MSI and same shall not be part of contract agreement. Hence request you to modify the clause as mentioned below: The Authority shall extend necessary support to SI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the "Approvals") necessary for SI to provide the Services. The costs of such Approvals shall be borne by SI Authority. Both parties shall give each other all co-operation and information reasonably.	Tender Conditions shall prevail. For more clarity, refer clause 4.6.4 /SI no 1/ Pg 24
Vol.2	2134	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 4.7 Other Expectations from System Integrator (SI)	Page 25 of 400	16. SI is required to maintain the spares for all the components minimum 5% or 2 no's whichever is more during the O&M period and handover the same on completion of the contract.	We understand that SI is required to maintain the spares for all the components minimum 5% or 2 no's whichever is more during O&M. Please confirm.	Tender conditions shall prevail
Vol.3	2135	L&T Smart World & Communication	Volume 3: Master Service Agreement, 43.6.4. City surveillance & ICT Component related performance levels	Page 38 of 50	8 Repair / replacement of infrastructure equipment including: 1. CCTV Cameras (Fixed, PTZ, ANPR, RLVD, SVD) 2. ITMS Equipment' (ATSC) 3. Any other equipment (Switching, Networking, Electrical & Mechanical) Bidder should keep minimum 10% spare at any given point of project execution. Infrastructure equipment should be replaced or repaired after complaint logging from Authority officials	We understand that SI is required to maintain the spares for all the components minimum 5% or 2 no's whichever is more during O&M. Please confirm.	Refer to AddendumVI
Vol.1	2136	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 7.10. Manufacturers'/P roducers' Authorization Form	Page 83 of 104	In case at any stage, it is found that the information given above is false or incorrect, GSCL shall have the absolute right to take any action as deemed fit/without any prior intimation.	We request you to amend the clause as mentioned below: In case at any stage, it is found that the information given above is false or incorrect, GSCL shall have the absolute right to take any action as deemed fit/without any prior intimation. Seek clarification along with supporting documents.	Tender conditions shall prevail.
Vol.1	2137	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 7.10. Manufacturers'/P roducers' Authorization Form	Page 82 of 104	(This form has to be provided by the OEMs of the hardware and software solutions proposed. This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. This Form has to be submitted along with a list clearly mentioning the items for which the bidder is authorized to quote.)	As the list of items/goods are required to be mentioned in the format, we request you to kindly amend the clause as below (This form has to be provided by the OEMs of the hardware and software solutions proposed. This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. This Form has to be submitted along with a list clearly mentioning the items for which the bidder is authorized to quote.)	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2138	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 7.10. Manufacturers'/Producers' Authorization Form	Page 82 of 104	We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	Request you to amend the clause as: "We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 6 years 10 years from the date of bidding."	Refer to AddendumVI
Vol.1	2139	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.1. General	Page 13 of 104	f. Bidder shall submit the Line of Credit for the amount of INR 21,59,00,000 (Twenty- One Crore , Fifty-Nine Lakhs Only) as per the format given in Annexure 9.	We understand that Line of Credit as per Annexure 9 has to be submitted by Sole Bidder/Lead Bidder. Please confirm.	Yes
Vol.1	2140	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 7.12.1. Details for Additional Required Items	Page 85 of 104	S. No of Price Bid BOQ Item 1.4.1 Item 2.2.1 Item 3.2.1 Item 4.2.1 Item 5.8.1 Item 7.4.1	The S.No mentioned in '7.12.1. Details for Additional Required Items' does not match with the S.No mentioned in Price Bid BOQ "BOQ_27684". Request you to kindly amend item numbers inline with Price Bid BOQ.	Refer to AddendumVI
Vol.1	2141	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.22. Confidentiality	Page 85 of 104	The employees of the successful Lead bidder and Consortium members who are proposed to be deployed on the project need to furnish a Non-Disclosure Agreement (NDA) as per RFP Volume III.	We understand that Non-Disclosure Agreement as per Annexure 5 in Volume 1 of RFP has to be submitted by the bidder after the award of contract. Please confirm.	Refer to AddendumVI
Vol.1	2142	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 11. Annexure 7 - Format for Power of Attorney to Authorize Signatory	Page 95 of 104	(Add in the case of a Consortium) Our firm is a Member or Lead bidder of the Consortium of _____ and _____. Dated this the _____ day of _____ 2020	We request you to kindly remove this line from this format as the same is captured in detail in the format "Annexure 8 - Format for Power of Attorney for Lead bidder of Consortium".	Refer to AddendumVI
Vol.1	2143	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 11. Annexure 7 - Format for Power of Attorney to Authorize Signatory & 12. Annexure 8 - Format for Power of Attorney for Lead bidder of Consortium	Page 95 of 104 & Page 97 of 104	11. Annexure 7 - Format for Power of Attorney to Authorize Signatory 12. Annexure 8 - Format for Power of Attorney for Lead bidder of Consortium [To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant Stamp Act. The stamp paper to be in the name of the company who is issuing the power of attorney.]	We understand that Annexure 7 & 8 - Power of Attorney can be executed on non-judicial stamp paper of INR 100 duly attested by notary public. Please confirm.	Tender conditions shall prevail.
Vol.1	2144	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.10. Contents of Bid	Page 18 of 104	e. Bidder shall submit technical bid in hard copy which shall be properly bound and all pages shall sequentially numbered.	Due to COVID-19 pandemic situation, we request GSCL to accept the bids (both technical and financial) submitted in online mode only. Kindly confirm the same.	Agreed. However, during bid evaluation stage for verification purpose if GSCL seeks the hard copy, bidders shall submit the same within the timeframe given by GSCL. Bidder to Refer Sl. 1.21 of Amendment 01 GSCL to confirm.
Vol.1	2145	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 1.3. Bid Data Sheet	Page 8 of 104	16 Last date for online submission of Bids: 13-07-2020 up to 15.00 Hrs.	We request GSCL to kindly extend the timeline for bid submission for atleast 4 weeks from the date of response to bidder's queries.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2146	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 1.4. Definitions/Acronyms	Page 9 of 104	12 Consortium Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ division/ sub division/ branch business unit.	We request you to delete this mentioned clause.	Tender conditions shall prevail.
Vol.2	2147	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 6.1.10.2 Change Order	Page 337 of 400	d. If parties agree that the Contract does not contain applicable rates or that the said rates are inappropriate or the said rates are not precisely applicable to the variation in question, then the parties shall negotiate a revision of the Contract Price which shall represent the change in cost of the works caused by the Variations. Any change order shall be duly approved by the Purchaser in writing.	We understand from this clause that SI shall be eligible for variation cost due to change order. Please confirm.	Yes, Change Management will be applicable in this RFP.
Vol.1	2148	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.2. Eligible Bidders	Page 14 of 104	Bids submitted by a consortium should comply with the following requirements also: i. The Lead Bidder shall be authorized to incur liabilities and receive instructions for and on behalf of any and all consortium members. Entire execution of the Contract, including payment, shall be done exclusively by/with the Lead Bidder	We request you to kindly allow direct payments to the consortium member, based on written authorization by Lead Bidder. This will enable bidder to have financial independence and shall enable to bid a competitive price. Hence request you to amend the clause as below: i. The Lead Bidder shall be authorized to incur liabilities and receive instructions for and on behalf of any and all consortium members. Entire execution of the Contract, including payment, shall be done exclusively by/with the Lead Bidder and payment under the Contract shall be received by both the lead partner and consortium member for their respective scope of work, upon written authorization by the lead bidder.	Tender conditions shall prevail.
Vol.1	2149	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.8. Earnest Money Deposit (EMD)	Page 16 of 104	For Unsuccessful bidders: The bid security of all unsuccessful bidders would be refunded without interest by Authority on finalization of the bid in all respects by the successful bidder.	Request you to modify the clause as follows: For Unsuccessful bidders: The bid security of all unsuccessful bidders would be refunded without interest by Authority within 30 days from the date of opening of commercial bid. on finalization of the bid in all respects by the successful bidder.	Refer to AddendumVI
Vol.1	2150	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.9. Bid Validity Period	Page 17 of 104	Bid shall remain valid for the time period mentioned in the Fact Sheet. On completion of the validity period, unless the Bidder withdraws his bid in writing, it will be deemed to be valid until such time that the Bidder formally (in writing) withdraws his bid.	Request you to kindly amend the clause as below: Bid shall remain valid for the time period mentioned in the Fact Sheet. On completion of the validity period, unless the Bidder withdraws his bid in writing, it will be deemed to be valid until such time that the Bidder formally (in writing) withdraws his bid.	Tender conditions shall prevail.
Vol.1	2151	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.11.1. Pre-Qualification Bid Format & 2.11.2. Technical Bid Format	Page 19 of 104 & Page 21 of 104	Note: 1. Bidders are requested to merge all the submittals in the same sequence as mentioned above with separators named as PQ 1, PQ 2....., PQ 14 etc. into one pdf file and upload as one pdf file separately for PQ bid submission in the e procurement portal. Note: 1. Bidders are requested to merge all the submittals in the same sequence as mentioned above with separators named as TQ 1, TQ 2....., TQ 15 etc. into one pdf file and upload as one pdf file separately for TQ bid submission in the e procurement portal.	1. We understand that there is provision for submission of only one pdf file comprising of Fee, Pre-Qualification & Technical bids in the e-procurement portal. Please confirm. 2. We request you to kindly increase the maximum size of pdf file to be uploaded on eprocurement portal to 200-500 MB to accommodate all the documents to be submitted as per RFP.	Need to be discussed with e-procurement cell
Vol.1	2152	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.13. Authentication of Bids	Page 22 of 104	An authorized representative (or representatives) of the Bidder shall initial all pages of the Pre-Qualification, Technical and Commercial Bids.	We understand that commercial bid shall be submitted as per Price Bid BOQ "BOQ_27684" (excel workbook) and initial of authorized representative is not required for commercial bid. Please confirm.	Refer to AddendumVI
Vol.1	2153	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.21. Acceptance/Rejection of Bids	Page 23 of 104	b) Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and figures and attested. In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature submitted along with the Bid, Authority reserves the right to reject the Bid and forfeit the EMD.	We request you to kindly amend the clause as below: b) Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and figures and attested. In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature submitted along with the Bid which are not acceptable to Authority, Authority reserves the right to reject the Bid and forfeit the EMD.	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2154	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 2.25. Fraud and Corrupt Practices	Page 26 of 104	b) Without prejudice to the rights of Authority under Clause above and the rights and remedies which Authority may have under the LOI or the Agreement, if a Bidder is found by Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOI or the execution of the Agreement, such Bidder shall not be eligible to participate in any tender or RFP issued by Authority during a period of 3 years from the date such Bidder is found by Authority to have directly or through an agent, engaged or indulged in any Prohibited Practices.	Request to amend the clause as: b) Without prejudice to the rights of Authority under Clause above and the rights and remedies which Authority may have under the LOI or the Agreement, if a Bidder is found by Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOI or the execution of the Agreement, such Bidder shall be disqualified and the bid shall not be considered for further evaluation. not be eligible to participate in any tender or RFP issued by Authority during a period of 3 years from the date such Bidder is found by Authority to have directly or through an agent, engaged or indulged in any Prohibited Practices.	Tender conditions shall prevail.
Vol.1	2155	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 14. Annexure 10: Format of Agreement between Bidder and their parent company / subsidiary / Sister Concern Company (As the case may be)	Page 100 of 104	14. Annexure 10: Format of Agreement between Bidder and their parent company / subsidiary / Sister Concern Company (As the case may be)	We understand that Annexure 10 - Agreement between bidder and parent company – This agreement will remain valid till validity of bidder's offer to GSCL including extension if any and till satisfactory performance of the contract in the event the contract is awarded by GSCL to the bidder. Please confirm.	Agreed
Vol.3	2156	L&T Smart World & Communication	Volume 3: Master Service Agreement, 17. Term and Extension of the Contract	Page 19 of 50	17.1. The Contract period shall commence from the date of signing of contract or Issuance of Lol, whichever is earlier, and shall remain valid for 60 Months from the date of Go Live of the system	We request you to kindly amend the clause as: "17.1. The Contract period shall commence from the date of signing of contract or Issuance of Lol, whichever is later earlier, and shall remain valid for 60 Months from the date of Go Live of the system"	Refer to AddendumVI
Vol.2	2157	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 5.2.10 Helpdesk	Page 137 of 400	SI shall be required to setup a centralized helpdesk at two locations i.e. one at Command Control Center specifically for City Surveillance, and one at City Operation Center for rest of the solutions.	We request you to kindly specify the exact location of City Operation Center.	Tender conditions shall prevail
Vol.2	2158	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 5.2.10 Helpdesk	Page 138-139 of 400	i. Helpdesk Capacity SI is required to provide a minimum 10-seater helpdesk at Command Control Center during all operation hours as specified in the RFP. iii. Helpdesk Operators The SI is required to provide Operators at Helpdesk for operating and managing the Helpdesk as specified in this RFP.	We understand that helpdesk operators required as per these clauses are inclusive in the 18 Nos. Of Contact Centre Operators (including relievers) in Schedule-C of Price Bid BOQ. Please confirm.	Please amend to read as - Helpdesk operators required as per these clauses are inclusive in the 11 Nos. Of Contact Centre Operators (including relievers) in Schedule-C of Price Bid BOQ. For more details please refer toto Vol.02 page no. 333.
Vol.2	2159	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 5.2.19 Handholding and Training	Page 157-159 of 400	A. Basic IT training B. Initial Training as part of Project Implementation I. Functional Training C. Administrative Training II. Senior Management Training D. Post-Implementation Training	We request you to kindly specify the number of man days and trainees for each category of training.	Min 2 Man-days in every 6 months
Vol.1	2160	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.4 Manpower Deployment	Page 48 of 104	<u>Minimum Deployment during Operation and Maintenance phase</u> 5 Security & Surveillance Expert - Quantity 1 - 100% 6 Integrated Traffic Management Expert - Quantity 1 - 100%	There is a discrepancy in the quantity required for Security & Surveillance Expert and Integrated Traffic Management Expert. We request you to confirm the below: Minimum Deployment during Operation and Maintenance phase 5 Security & Surveillance Expert - Quantity 1 3- 100% (8*5) 6 Integrated Traffic Management Expert - Quantity 1 3 -100% (8*5 24*7)	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2161	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 6.1.9.2 Helpdesk and Facilities Management Services	Page 333 of 400	<u>Minimum Deployment during Operation and Maintenance phase</u> 5 Security & Surveillance Expert - Quantity 1- 100% (8*5) 6 Integrated Traffic Management Expert - Quantity 1 -100% (24*7)	There is a discrepancy in the quantity required for Security & Surveillance Expert and Integrated Traffic Management Expert. We request you to confirm the below: Minimum Deployment during Operation and Maintenance phase 5 Security & Surveillance Expert - Quantity 1 3- 100% (8*5) 6 Integrated Traffic Management Expert - Quantity 1 3 -100% (8*5 24*7)	Refer to AddendumVI
Vol.2	2162	L&T Smart World & Communication	Volume 2: Scope of Work 6.1.6.2 Provision of the Operational Manpower & Contact Center Manpower to view the various data feeds and call centre operations at ICC	Page 324 of 400	Operational Manpower shall work in 3 shifts, with no person being made to see the data feeds for more than 8 hours at a stretch. Contact Centre Manpower for operationalization of the systems (9 resources in normal working in shift & 2 resources each in day shifts for Field O&M)-11 Nos	We understand that 9 Resources (3 resources in each shift) and 2 resources in dayshift is required as contact center manpower. Total 11 resources.Kindly confirm.	Refer to AddendumVI
Vol.2	2163	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 6.1.9.2 Helpdesk and Facilities Management Services	Page 333 of 400	8 Command Centre Operators 11-100% (24*7 – 3 resources in each rotational shift & 2 resource in general shift for field maintenance	1. We understand that both Contact center manpower and Command center operators are same and the requirement is 11. Kindly confirm 2.18 Nos. Of Contact Centre Operators (including relievers) in Schedule-C of Price Bid BOQ is mentioned and this is contradictory to the requirement mentioned in the clause 6.1.6.2 . Please confirm the requirement.	Refer to AddendumVI
Vol.2	2164	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT	Page 347 of 400	10. Bidders should ensure warranty and support for all equipment from OEMs during the contract period. All the back-to-back service agreements should be submitted along with the Technical Bid.	As the bidder is responsible for delivering scope as per RFP, we request you to amend clause as: 10. Bidders should ensure warranty and support for all equipment from OEMs during the contract period. All the back-to-back service agreements should be submitted along with the Technical Bid.	This is already mentioned in said clause - 10. Bidders should ensure warranty and support for all equipment from OEMs during the contract period. All the back-to-back service agreements should be submitted along with the Technical Bid.
Vol.2	2165	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT	Page 348 of 400	22. System Integrator shall place orders on various OEMs directly and not through any subcontractor / partner.	We request you to delete this mentioned clause.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2166	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT	Page 347 of 400	9. Bidder should ensure that only one make and model is proposed for one component in Technical Bid for example all PTZ cameras must belong to a single OEM and must be of the same model etc.	We presume that one make and model shall be proposed for system-wise cameras (i.e) for example, make and model of ITMS cameras can be different from the CCTV Fixed box cameras. Please confirm whether our understanding is correct.	Yes, CCTV Camera (Dome Fixed & PTZ) camera should be from Same OEM and ITMS (ANPR, SVD, RLVD) camera can be different OEM.
Vol.2	2167	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT	Page 347 of 400	20. All the hardware and software supplied should be from the reputed Original Equipment Manufacturers (OEMs). GSCL/or any other authorized agency as nominated by the Authority reserves the right to ask replacement of any hardware / software if it is not from a reputed brand and conforms to all the requirements specified in the RFP documents.	We request you to kindly amend the clause as: 20. All the hardware and software supplied should be from the reputed Original Equipment Manufacturers (OEMs). GSCL/or any other authorized agency as nominated by the Authority reserves the right to ask replacement of any hardware / software during bid evaluation and before start of contract if it does is not from a reputed brand and conforms to all the requirements specified in the RFP documents. If GSCL ask for replacement of any hardware / software after the signing of contract/issue of LOI, then the additional variable cost for change of make shall be reimbursed to SI.	Tender conditions shall prevail
Vol.2	2168	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 11.12 Security Operations Center	Page 360 of 400	The bidder shall set up Security Operations Centre to ensure continuous monitoring and manage all kinds of cyber security operations related to smart city such as Incident Management, Logging and Monitoring, Anti-virus Management, Threat Intelligence Support, Secure Technology Disposal and other cyber security support activities to ensure secured smart city ecosystem.	We request you to kindly descope the Security Operations Center from bidder' scope as setting up a security operations centre will incur huge expenses thereby increasing the bid value.	Tender conditions shall prevail
Vol.3	2169	L&T Smart World & Communication	Volume 3: Master Service Agreement, 10.33. Statutory Requirements	Page 14 of 50	10.33. Statutory Requirements	We understand that statutory levy will be payable to SI post bid submission due to effect of change in law. Please confirm.	Refer to AddendumVI
Vol.3	2170	L&T Smart World & Communication	Volume 3: Master Service Agreement 3. Conditions Precedent	Page 5 of 50	The Authority reserves the right to waive any or all of the conditions specified in Clause 3 above in writing and no such waiver shall affect or impair any right, power or remedy that the Authority may otherwise have.	We request you to modify the clause as mentioned below: The Authority reserves the right to waive any or all of the conditions specified in Clause 3 above in writing and no such waiver shall affect or impair any right, power or remedy that the Authority may otherwise have with written notice to MSI.	Tender conditions prevails
Vol.3	2171	L&T Smart World & Communication	Volume 3: Master Service Agreement 3. Conditions Precedent	Page 5 of 50	In the event that any of the conditions set forth in Clause 3 hereinabove are not fulfilled within 1 month from the date of this Contract, or such later date as may be mutually agreed upon by the parties, the Authority may terminate this Contract	We request you to modify the clause as mentioned below: In the event that any of the conditions set forth in Clause 3 hereinabove are not fulfilled within 1 month from the date of this Contract, or such later date as may be mutually agreed upon by the parties, the Authority may terminate this Contract penalise the MSI thereafter as per Liquidated damages.	Tender conditions shall prevail
Vol.3	2172	L&T Smart World & Communication	Volume 3: Master Service Agreement 10. Bidder's Obligations	Page 9 of 50	SI shall be fully responsible for deployment / installation / development/ and integration of all the software and hardware components and resolve any problems / issues that may arise due to integration of components.	We understand that SI shall provide the deliverables as per RFP only. Hence request you to amend the clause as mentioned below: SI shall be fully responsible for deployment / installation / development/ and integration of all the software and hardware components and resolve any problems / issues that may arise due to integration of components as per the scope pertaining to the RFP.	Tender condition shall prevail

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Vol.3	2173	L&T Smart World & Communication	Volume 3: Master Service Agreement 10.29. Reporting Progress	Page 12 of 50	In case during execution of works, the progress falls behind schedule or does not meet the Tender requirements, SI shall deploy extra manpower/ resources to make up the progress or to meet the RFP requirements. Plan for deployment of extra man power/ resources shall be submitted to the Authority for its review and approval. All time and cost effect in this respect shall be borne, by SI within the contract value.	We request you to modify the clause as mentioned below: In case during execution of works solely due to the reasons pertaining to SI, the progress falls behind schedule or does not meet the Tender requirements, SI shall deploy extra manpower/ resources to make up the progress or to meet the RFP requirements. Plan for deployment of extra man power/ resources shall be submitted to the Authority for its review and approval. All time and cost effect in this respect shall be borne, by SI within the contract value.	Tender conditions shall prevail
Vol.3	2174	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: Extension of Completion: SI shall be entitled to extension of the Time for Completion if and to the extent that completion is or will be delayed by any of the following causes: (a) a Change Control Note or variation or other substantial change in the quantity of an item of work included in the Contract, (b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions, (c) exceptionally adverse climatic conditions, or Force Majeure (d) Unforeseeable shortages in the availability of personnel or Goods caused by epidemic or governmental actions, or (e) any delay, impediment or prevention caused by or attributable to the Purchaser, the Purchaser's Personnel, or the Purchaser's other contractors on the Site. (f) Suspension of the contract	Tender conditions shall prevail
Vol.3	2175	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: Suspension by the MSI: If the Authority fails to certify in accordance with this Agreement upon submission of invoices or fails to comply with Payment obligation or provide timely access to site or perform its obligations in a timely manner, the MSI may, after giving not less than 21 days' notice to the Authority, suspend work (or reduce the rate of work) unless and until the default of the Authority has been remedied.	Tender condition shall prevail
Vol.3	2176	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: Change in Applicable Law: The Contract Price shall be adjusted to take account of any increase or decrease in Change in Applicable Law, introduction of new Laws and the repeal or modification of existing Laws) including Taxes or in the judicial or official governmental interpretation of such Laws, made after the Effective Date, which affect the MSI in the performance of obligations under the Contract. If the MSI suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Effective Date, the MSI shall give notice to the Authority and shall be entitled to: (a) an extension of time for any such delay, if completion is or will be delayed and (b) payment of any such Cost, which shall be included in the Contract Price.	Tender condition shall prevail
Vol.3	2177	L&T Smart World & Communication	Volume 3: Master Service Agreement 11. Authority's Obligations	Page 15 of 50	Authority shall ensure that timely approval is provided to SI as and when required, which may include approval of project plans, implementation methodology, design documents, specifications, or any other document necessary in fulfillment of this contract.	Time is the essence of the contract, hence the acceptance of the deliverables by the Authority shall be as mentioned below: Authority shall ensure that timely approval is provided to SI i.e. within 14 days of submission of the note/report as and when required, which may include approval of project plans, implementation methodology, design documents, specifications, or any other document necessary in fulfillment of this contract. If the Authority fails to provide written acceptance to SI within 14 days of submission of note/report the same shall be deemed accepted by Authority.	Tender conditions shall prevail.

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Vol.3	2178	L&T Smart World & Communication	Volume 3: Master Service Agreement 12. Payments	Page 15 of 50	Authority shall make payments to SI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 42 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to SI within 45 days of receipt of invoice(s) and all necessary supporting documents.	We request you to amend the clause as mentioned below for improvement in working capital of SI as per MeitY guidelines: Authority shall make payments to SI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 42 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to SI within 45 30 days of receipt of invoice(s) and all necessary supporting documents. In the event of delay in payment of undisputed amount beyond 30 days, SI shall be entitled to a late payment interest of 10% per annum from the date of completion after submission of invoice. This interest is subject to a limit of 10% of the total contract value.	Tender condition shall prevail
Vol.3	2179	L&T Smart World & Communication	Volume 3: Master Service Agreement 14. Taxes	Page 17 of 50	SI shall bear all taxes and duties etc. levied or imposed on SI under the Contract including but not limited to, Customs duty, Excise duty, GST, , any other taxes and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire contract period, i.e., on account of material supplied and services rendered, and payments received by him from the Authority under the Contract. It shall be the responsibility of SI to submit to the concerned Indian authorities the returns and all other connected documents required for this purpose. SI shall also provide the Authority such information, as it may be required in regard to SI's details of payment made by the Authority under the Contract for proper assessment of taxes and duties. The amount of tax withheld by the Authority shall at all times be in accordance with Indian Tax Law and the Authority shall promptly furnish to SI original certificates for tax deduction at source and paid to the Tax Authorities.	We request you to add the clause as mentioned below : SI shall bear all taxes and duties etc. levied or imposed on SI under the Contract including but not limited to, Customs duty, Excise duty, GST, , any other taxes and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire contract period, i.e., on account of material supplied and services rendered, and payments received by him from the Authority under the Contract. It shall be the responsibility of SI to submit to the concerned Indian authorities the returns and all other connected documents required for this purpose. SI shall also provide the Authority such information, as it may be required in regard to SI's details of payment made by the Authority under the Contract for proper assessment of taxes and duties. The amount of tax withheld by the Authority shall at all times be in accordance with Indian Tax Law and the Authority shall promptly furnish to SI original certificates for tax deduction at source and paid to the Tax Authorities. GST shall be shown extra by the bidder in their invoices for the items applicable. The same shall be paid by Authority as per actual after verification If there is any tax savings, the same shall be reduced from the payable amount. In case of any new incidence of tax or increase in existing tax rates taking place during the Agreement Period, that shall be borne and payable by the Authority over and above the agreed price for each item as may be applicable as per the Invoice raised by either Party/Member of the Consortium on the Authority. Similarly, any reduction in taxes shall be to the benefit of Authority.	Refer to AddendumVI
Vol.3	2180	L&T Smart World & Communication	Volume 3: Master Service Agreement 15. Indemnity	Page 18 of 50	15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: a. any negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or b. any breach of any of the terms of SI's did as agreed, the RFP and this Contract by SI c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof 15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc. 15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims.	We request you to amend the clause as mentioned below: 15.1. SI Either Party shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: a. any negligence or wrongful act or omission by SI Either Party or any third party associated with SI Either Party in connection with or incidental to this Contract; or b. any breach of any of the terms of SI either partie's did as agreed, the RFP and this Contract by SI Either Party c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof 15.2. SI Either Party shall also indemnify the Authority each other against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc. 15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims.	Refer to AddendumVI

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Vol.3	2181	L&T Smart World & Communication	Volume 3: Master Service Agreement 15. Indemnity	Page 18 of 50	15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims.	We request you to describe the claims by the third parties.	Refer to AddendumVI
Vol.3	2182	L&T Smart World & Communication	Volume 3: Master Service Agreement 22. Force Majeure	Page 21 of 50	The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.	We request Authority to provide suitable time for informing as the Force Majeure situations are uncertain and the communication can be delayed. Hence, request you to amend the clause as mentioned below: The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five 14 (Fourteen) days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.	Refer to AddendumVI
Vol.3	2183	L&T Smart World & Communication	Volume 3: Master Service Agreement 22. Force Majeure	Page 21 of 50	In case of a Force Majeure, all Parties shall endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.	We request you to amend the clause as mentioned below as per Meity Guidelines: In case of a Force Majeure, all Parties shall endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered, or delayed. The time for achieving Final Go - Live shall be extended and costs incurred as a result of the Force Majeure event shall be reimbursed to the MSI.	Refer to AddendumVI
Vol.3	2184	L&T Smart World & Communication	Volume 3: Master Service Agreement 24. Insurance	Page 22 of 50	SI shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods and also the charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective sites of installation shall also be borne by SI.	We request you to amend the clause as mentioned below: SI Authority shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods and also the charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective sites of installation shall also be borne by SI be reimbursed by authority on submission of proof by SI .	Refer SI 3.04 of Addendum-1
Vol.3	2185	L&T Smart World & Communication	Volume 3: Master Service Agreement 34. Confidentiality	Page 26 of 50	SI shall be liable to fully recompense the Authority for any loss of revenue arising from breach of confidentiality.	SI Either Party shall be liable to fully recompense the Authority each other party for any loss of revenue arising from breach of confidentiality.	Tender condition shall prevail
Vol.3	2186	L&T Smart World & Communication	Volume 3: Master Service Agreement 35. Events of Default by SI	Page 27 of 50	Where despite the issuance of a default notice to SI by the Authority, SI fails to remedy the default to the satisfaction of the Authority, the Authority may, where it deems fit, issue to the defaulting party another default notice or proceed to contract termination.	We request you to amend the clause as mentioned below: Where despite the issuance of a default notice to SI by the Authority, SI fails to remedy the default to the satisfaction of the Authority, the Authority may, where it deems fit, issue to the defaulting party another 14 days default notice or. And may proceed to contract termination with prior intimation to SI.	Tender condition shall prevail

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Vol.3	2187	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	<p>We request you to add the clause as mentioned below: Events of Default by Authority: "Authority Event of Default" means any of the following but not limited to events set out below, unless such event has occurred because of a default by the MSI, a Change in Law or any event of Force Majeure. a.if the Authority fails to pay any undisputed money due to the MSI pursuant to this Contract within thirty (30) calendar days after receiving written notice from the MSI that such payment is overdue; b.if the Authority is in material breach of its obligations under this Contract and has not remedied the same within thirty (30) days (or such longer period as the MSI may have subsequently approved in writing) following the receipt by the Authority of the MSI's notice specifying such breach; c.if the MSI is unable to carry out any of its obligations under the Contract for any reason attributable to the Authority, including but not limited to the Authority's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the System; d.if the Authority becomes insolvent or bankrupt or enters into any agreements with its creditors for relief of debt or take advantage of any law for the benefit of debtors or goes into liquidation or receivership whether compulsory or voluntary; or, if the Authority is a corporation, a resolution is passed or order is made for its winding up; e.if the Authority suspends the performance of the Services for more than sixty (60) days, for reasons not attributable to the MSI. Without prejudice to other provisions of this Contract, upon the occurrence of a Authority Event of Default, the MSI may deliver a notice to the Authority specifying the nature of the breach and giving a cure period of thirty (30) days to the Authority to cure the Authority Event of Default. If the Authority fails to cure the breach within the cure period, the MSI may terminate the Contract forthwith.</p>	Tender condition shall prevail
Vol.3	2188	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	<p>We request you to add the clause as mentioned below: If the Contract is terminated under Termination clause as per Volume III the MSI shall immediately: a.cease all further work, except for such work as may be necessary for the purpose of protecting that part of the System already executed, or any work required to leave the site in a clean and safe condition; b.terminate all subcontracts, except those to be assigned to the Authority; c.remove all MSI's Equipment from the site and repatriate the MSI and its Sub MSI's personnel from the Site; d.In addition, the MSI shall: (i)deliver to the Authority the parts of the System executed by the MSI up to the date of termination; (ii)to the extent legally possible, assign to the Authority all right, title, and benefit of the MSI to the System, or Subsystems, as of the date of termination, and, as may be required by the Authority, in any subcontracts concluded between the MSI and its Sub MSIs; (iii)to the extent legally possible, deliver to the Authority all drawings, specifications, and other documents prepared by the MSI or its Sub MSIs as of the date of termination in connection with the System. The Authority shall pay to the MSI all amounts owed to the MSI upto the date of termination after deducting any payments owed by the MSI to the Authority.</p>	Tender condition shall prevail
Vol.3	2189	L&T Smart World & Communication	Volume 3: Master Service Agreement 36. Termination	Page 28 of 50	Termination for Insolvency: The Authority may at any time terminate the Contract by giving written notice to SI, without compensation to SI, if SI becomes bankrupt or otherwise insolvent, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Authority	<p>We request you to amend the clause as mentioned below: Termination for Insolvency: The Authority may at any time terminate the Contract by giving written notice to SI, without compensation with compensation to SI for the deliverables delivered till date of termination, if SI becomes bankrupt or otherwise insolvent, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Authority</p>	Tender condition shall prevail

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Vol.3	2190	L&T Smart World & Communication	Volume 3: Master Service Agreement 36. Termination	Page 28 of 50	36.5. SI may, subject to approval by the Authority, terminate this Contract before the expiry of the term by giving the Authority a prior and written notice at least 3 months in advance indicating its intention to terminate the Contract.	We request you to amend the clause as mentioned below: 36.5. SI may, subject to approval by the Authority, terminate this Contract before the expiry of the term by giving the Authority a prior and written notice at least 3 months in advance indicating its intention to terminate the Contract. In such a case, SI shall be paid for the deliverables delivered till date of termination.	Tender condition shall prevail
Vol.3	2191	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: For any new equipment(s)/system(s) which are not included in the RFP that might come up during the contract period Authority will reserve the option to procure these equipment(s) from the SI on cost of Supply, Implementation and AMC plus handling charges of 12.5% to the SI. The SI would need to operate and maintain all such new equipment installed in the Project locations and yearly AMC charges will be paid by Authority to SI	Tender condition shall prevail
Vol.3	2192	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: Assignment:- The rights and obligations under the Contract are personal to MSI and shall not be assigned by it, to any third party, without the express prior written authorization of the Authority, except that MSI may assign due and payable to it under the Contract to any Bank/Financial Institution. The property of Authority cannot be mortgage by MSI in any of the case.	Tender condition shall prevail
Vol.3	2193	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: Bonus: If the MSI achieves completion of the milestones or any section(s) prior to the intended Completion Date prescribed in Contract data (Extension of time at the discretion), the Authority shall pay to the MSI a sum of 10% of the delivered portion of the respective milestone as bonus for early completion, for every calendar month which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations and the time prescribed in the contract	Tender condition shall prevail
Vol.3	2194	L&T Smart World & Communication	Volume 3: Master Service Agreement 16. Warranty	Page 19 of 50	Upon receipt of such notice, the SI shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, without prejudice to any other rights which the Authority may have against the SI under the Contract.	We request you to amend the clause as mentioned below: Upon receipt of such notice, the SI shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, without prejudice to any other rights which the Authority may have against the SI under the Contract. Any defective component, excluding hard disks, that has been replaced by the MSI shall remain the property of the MSI.	Tender condition shall prevail
Vol.3	2195	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the clause as mentioned below: In case the Parties decide to use any pre-existing work not related to the Project for any Project use and which is not owned by either Party, MSI and the Authority shall mutually decide on use of such work on terms to be decided on mutual consent and time for execution and increase in price shall be paid respectively. Notwithstanding the foregoing, any Intellectual Property or Intellectual Property Rights that were developed, owned or licensed by a Party prior to execution of the Contract shall remain with such Party unless the Parties agree otherwise by express written consent.	Tender condition shall prevail
Vol.2	2196	L&T Smart World & Communication	Volume 2: Scope of Work 3.4 Project Objectives	Page 11 of 400	Integration with existing safety & surveillance systems already implemented as part of the initiative taken by Police department etc	Kindly provide the details of existing safety & surveillance systems.	There is no any existing system required to integrate, but system should be capable to integrate any existing or old system in future.
Vol.2	2197	L&T Smart World & Communication	Volume 2: Scope of Work 4.0 PROJECT SCOPE OF WORK	Page 13 of 400	Data Center (DC) -DC at State Data Centre	1.Kindly the provide the requirement of DR and Location of DR 2.Kindly include the lineitems in the Price bid to quote DR during Implementation and OPEX period.	DC Address: State Data Centre (SDC) Assam Secretariat (Civil), Dispur, Guwahati-781006, Assam There is no DR planned in this RFP.
Vol.2	2198	L&T Smart World & Communication	Volume 2: Scope of Work 4.9 Design, Supply, Installation & Commissioning of the Field Equipment	Page 28 of 400	The Scope includes Supply, Installation, commissioning and Customization (as required) of various field systems which include Integrated Traffic Management System (ITMS) at Traffic Junctions, City Surveillance System, DC & DR and other IT infrastructure required for successful operations of the ICCC project.	We understand that Defect liability period and O&M is 5 years from the date of Go-Live of the Project. Kindly confirm	State Data Centre (SDC)

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Vol.2	2199	L&T Smart World & Communication	Volume 2: Scope of Work 4.7 Other Expectations from System Integrator (SI)	Page 25 of 400	SI shall responsible for maintaining the SLA for the complete NW infrastructure (either maintained by self or other agency), including all City Optical fiber network (Which shall be maintained by Network Service Provider) for the period of five (5) years after final acceptance testing and handover the complete systems to the Authority after project defeat liability period. Authority has full right to use the city network for his other requirements of connecting the existing and or upcoming systems and solutions for entire contract period and thereafter.	We understand that Defect liability period and O&M is 5 years from the date of Go-Live of the Project. Kindly confirm	Tender conditions shall prevail
Vol.2	2200	L&T Smart World & Communication	Volume 2: Scope of Work 4.21.3 Hosting Services	Page 48 of 400	1. The infrastructure of Data Center for ICC, ITMS and City Surveillance system shall be hosted at State Data Center (SDC) of Govt. of Assam. The following services shall be provisioned by State Data Center. • Internet Bandwidth • Hosting Space • Power & Cooling • Secured Data Center Environment 2. The SI shall responsible for any payments or charges (if required) for hosting data center services at State Data Centre, (which will be reimbursed to SI or will be directly paid to SDC)	We request GSCL to pay the Hosting Charges directly to SDC and the SI shall not quote the same. Kindly confirm.	Dispur, Guwahati-781006, Assam
Vol.2	2201	L&T Smart World & Communication	Volume 2: Scope of Work 4.22 Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICC	Page 50 of 400	The SI shall provide system integration services to customize and integrate the applications procured through the project. The ITMS and Surveillance System applications proposed by the SI should have open APIs and should be able to integrate and share the data with other third-party systems already available or coming up in the coming future	Kindly elaborate the scope of integration with third party Systems.	There is no DC planned in this RFP.
Vol.2	2202	L&T Smart World & Communication	Volume 2: Scope of Work 6.1.11.1 Factory Testing	Page 340 of 400	SI shall have to submit Factory Test Certificate for the below mentioned materials before the actual supply of the items. 1. Cable 2. Pole 3. Signal Aspects Authorized representative from GSCL will visit the manufacturing plant of the product subject to present in India. Authorized representative will check the testing process	We understand that the travel ,lodging and accomodation charges for the GSCL appointed authorized representative shall be borne by GSCL. Kindly confirm,	Yes, travel ,lodging and accomodation charges for the GSCL appointed authorized representative shall be borne by GSCL.
Vol.2	2203	L&T Smart World & Communication	8.0 ANNEXURE III - COMMON GUIDELINES REGARDING COMPLIANCE OF SYSTEMS/EQUIPMENT Volume 2: Scope of Work 6.1.11.1 Factory Testing	Page 348 of 400	22. System Integrator shall place orders on various OEMs directly and not through any sub- contractor / partner	Kindly amend the clause as below, 22. System Integrator shall place orders on various OEMs and their distributors directly and not through any sub- contractor / partner	Tender conditions shall prevail
Vol.3	2204	L&T Smart World & Communication	Volume 3: Master Service Agreement	Page 20 of 50	19. Time is of the essence 19.1. Time shall be of the essence in respect of any date or period specified in this Contract or any notice, demand or other communication served under or pursuant to any provision of this Contract and in particular in respect of the completion of the activities by SI by the specified completion date	Request you to remove the clause as there is a penalty for non achieving the milestone.	Tender condition shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2205	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications, 12.7 Bill of Material (BOM) Summary	Page 333 of 400	1.1.11 10 Mtrs Gantry System/Cantilever Pole - ANPR & RLVD	Request you to kindly allow the bidder to design the type, length and structure of pole according to design and junction requirements.	Bidder can propose the better solutions
Vol.3	2206	L&T Smart World & Communication	Volume 3: Master Service Agreement, B. SERVICE LEVELS	Page 31 of 50	Service Level Agreements & Targets	We request you to grant SLA holiday of 3 months from the date of Go-Live. Please confirm.	Tender conditions shall prevail.
Vol.1	2207	L&T Smart World & Communication	Volume 1: Instruction to Bidders, 3.6.3 Key Personnel Criteria	Page 47 of 104	Notes: The top three profiles (Project Manager, Integrated Command and Control Centre Expert and Solution Architect) should be on the payroll of the sole bidder or the consortium partner	We request you to amend the clause as mentioned below: Notes: The top three profiles (Project Manager, Integrated Command and Control Centre Expert and Solution Architect) should be on the payroll of the sole bidder or the consortium partner. All other resources can be from SI/Partner/OEM/Consortium.	Tender conditions shall prevail.
Vol.3	2208	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request you to add the following clause: Penalties shall not be levied on the MSI in the following cases: i. There is a Force Majeure event effecting the SLA which is beyond the control of the MSI. Force Majeure events shall be considered in line as mentioned in RFP. ii. The non-compliance to the SLA has been due to reasons beyond the control of the MSI. iii. Theft cases by default/vandalism considered as "beyond the control of MSI". Hence, support shall be provided by authority and measures shall be taken upon mutual discussion.	Tender condition shall prevail
Vol.3	2209	L&T Smart World & Communication	Volume 3: Master Service Agreement	General	General	We request to add the clause as mentioned below: It is acknowledged that this Service levels may change as Authority's business needs to evolve over the course of the Contract period. As such, this document also defines the following management procedures upon mutual discussion by either parties: A process for negotiating changes to the Service Levels and any changes to the levels of service provided during the Term of the Contract shall be requested, documented and negotiated in good faith by both Parties. Either Party can request a change.	Tender condition shall prevail
Vol.3	2210	L&T Smart World & Communication	Volume 3: Master Service Agreement 43.6.1. Implementation Phase Related Performance Levels	Page 33 of 50	43.6.1. Implementation Phase Related Performance Levels	We request you to add the clause as mentioned below: 11.1.3MSI shall ensure that all key personnel are available on site as per labour laws. All leaves & Public holidays shall be considered as per government laws and Manpower availability & readiness shall be mapped accordingly 11.1.4MSI shall submit profiles of the Key Personnel who are to be deployed as per the RFP requirement. Bidder shall submit a resource deployment plan stating month wise deployment schedule indicating type of resources and whether deployment is on full time or part time basis etc for the purpose of Bid evaluation. However, Bidder shall undertake to provide adequate resources as required for successful commissioning of the Project irrespective of the Resource Plan submitted in the Bid. The following key resources shall be in Bidder's payroll and all other resources can be sourced by Bidder from any of his Teaming Partner for the Project. a)Project Manager b)Solution Architect c) Integrated Command and Control Centre Exper	Tender condition shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2211	L&T Smart World & Communication	Volume 01 2.30. Right to vary quantity and change in scope	Page 29 of 104	At the time of award of contract and post award of work, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents. In the event, the goods, works or services for which variation is sought after award of work then the same shall be done through Change Request Note. The CRN will be evaluated by a Third-Party Committee formed by the Employer and the decision of the Committee will be final on the scope and rate. Total value of all change of Scope orders shall not exceed Twenty (20) percent of Approved Contract Amount	Please confirm the below: Extension of time shall be provided on change request note and bidder shall be compensated accordingly. The change request should be provided by the employer within the first six months of after contract signing.	Please refer clause# 38 of volume-3
Vol.1	2212	L&T Smart World & Communication	Volume 01 3.5. Pre-Qualification Criteria	Page 33 of 104	International project if the original client certificate and other documents are in language other than English than a translated copy duly confirmed by Indian embassy/ One of the board of directors of the lead bidder/ consortium member shall be submitted along with bid document.	Kindly amend as: International project if the original client certificate and other documents are in language other than English than a translated copy duly confirmed by Indian embassy/ One Two of the board of directors of the lead bidder / consortium member (of parent company) shall be submitted along with bid document.	Clause is deleted. Bidder to Refer Point 1.03 of Amendment 01
Vol.1	2213	L&T Smart World & Communication	Volume 01 6.2. Pre-Qualification Bid Covering Letter	Page 61 of 104	We agree to abide by our offer for a period of 180 days from the date of opening of prequalification bid prescribed by Authority and that we shall remain bound by a communication of acceptance within that time.	Kindly amend as: We agree to abide by our offer for a period of 180 days from the date of opening of prequalification- submission of bid prescribed by Authority and that we shall remain bound by a communication of acceptance within that time.	Refer to AddendumVI
Vol.1	2214	L&T Smart World & Communication	Volume 01 6.2. Pre-Qualification Bid Covering Letter	Page 62 of 104	We fully understand and agree to comply that on verification, if any of the information provided in our bid is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.	Kindly amend as: We fully understand and agree to comply that on verification, if any of the information provided in our bid is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.	Tender conditions shall prevail.
Vol.3	2215	L&T Smart World & Communication	Volume 3 18. Dispute Resolution	Page 20 of 50	The Arbitration proceedings shall be held in Guwahati in Assam State, India.	Kindly amend as: The Arbitration proceedings shall be held in Guwahati in Assam State, India. New Delhi, India	Tender condition shall prevail
Vol.3	2216	L&T Smart World & Communication	Volume 3 23. Delivery	Page 21 of 50	The Goods and manpower supplied under this Contract shall conform to the standards mentioned in the RFP, and, when no applicable standard is mentioned, to the authoritative standards; such standard shall be approved by Authority.	Kindly amend as: The Goods and manpower supplied under this Contract shall conform to the standards mentioned in the RFP, and, when no applicable standard is mentioned, to the authoritative standards; such standard shall be approved by Authority. Industry acceptable standards to be used.	Tender condition shall prevail
Vol.3	2217	L&T Smart World & Communication	Volume 3 28. Liquidated Damages:	Page 22 of 50	The Authority may without prejudice to its right to effect recovery by any other method, deduct the amount of liquidated damages from any money belonging to SI in its hands (which includes the Authority's right to claim such amount against SI's Bank Guarantee) or which may become due to SI. Any such recovery or liquidated damages shall not in any way relieve SI from any of its obligations to complete the Work or from any other obligations and liabilities under the Contract.	Kindly amend as: The Authority may without prejudice to its right to effect recovery by any other method, deduct the amount of liquidated damages from any money belonging to SI in its hands (which includes the Authority's right to claim such amount against SI's Bank Guarantee) or which may become due to SI. Any such recovery or liquidated damages shall not in any way relieve SI from any of its obligations to complete the Work or from any other obligations and liabilities under the Contract. The penalty levied shall be reimbursed to the bidder at the successful completion of the installation period within the agreed time frame between GSCL & Bidder.	Tender condition shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.3	2218	L&T Smart World & Communication	Volume 3 36 Termination	Page 27 of 50	Termination by SI	<p>If(a) the Employer has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause of the Contract Agreement, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice, or</p> <p>(b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities which the Employer is required to obtain as per provision of the Contract or as per relevant applicable laws of the country, then the Contractor may give a notice to the Employer thereof, and if the Employer has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within twenty-eight (28) days of such notice, or if the Contractor is still unable to carry out any of its obligations under the Contract for any reason attributable to the Employer within twenty-eight (28) days of the said notice, the Contractor may by a further notice to the Employer forthwith terminate the Contract. The Contractor may terminate the Contract forthwith by giving a notice to the Employer to that effect.</p> <p>If the Employer becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, being a corporation, if a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Employer takes or suffers any other analogous action in consequence of debt. The Employer shall pay to the Contractor all payments specified and reasonable compensation for all loss or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.</p>	Tender condition shall prevail
Vol.3	2219	L&T Smart World & Communication	Volume 3 43: penalty	Page 22 of 50	Three consecutive quarterly deductions of 30 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	The maximum value of SLA penalty imposed shall not be more than 5% of overall O&M Value.	Refer to AddendumVI
Vol.2	2220	L&T Smart World & Communication	Volume 2 7.1 Payment Schedules for Implementation Phase	Page 341 of 400	Delayed payment to bidder	Delayed payment shall be paid to the bidder with an interest , as per SBI PLR +2.5%	Tender conditions shall prevail
Vol.2	2221	L&T Smart World & Communication	Volume 02	Page 14 of 400	Bidder shall utilize the State-owned OFC Network infrastructure and strengthening of the network to meet the connectivity requirements for all proposed components.	please let us know what proposition of state owned OFC network is required to be used as the BOQ line item 3.1.10 & 3.1.11 provide 350 Kms of OFC network to be laid. Please confirm that the state owned network would be provided on a timely basis and free of charge to the bidder and any delay in getting the State owned network shall entitle the bidder to get extension of time and applicable cost.	All connectivity between the POP sites (Backbone NW)
Vol.2	2222	L&T Smart World & Communication	Volume 2 - 4.5 Finalization of Detailed Technical Architecture	20	ICCC - Applications should have mobility devices & applications for field staff to ensure fast restoration of services in case of alarms & issues. In case of nonattending of alarm, decision escalations will be done automatically. After closure of issue the workflow must be closed with feedback from those devices.	Is Mobility Devices (Hardware) is required for field staff? If yes, Kindly provide the quantity and specification for 2/4 wheeler and include in the BOQ line item.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2223	L&T Smart World & Communication	Vol 1 - 2.29. Eligible Goods and Services, and OEM Criteria	28	i) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	1. We understand from the clause that Smart Town Ships / Integrated Security System Projects for Plants / Campus based projects from Central/Sate PSUs are allowed. Please confirm if our understanding is correct. 2. Also we understand that 1000 number of cameras being asked are the aggregate Cameras from 2 City Surveillance Projects. Please confirm if our understanding is correct. 3.For Successful Completion / Installation report, normally the end customers do not issue the installation report / completion certificate to the OEMs but to the MSIs. Therefore, it is requested to allow completion certificate/ installation report from the MSI partner of the OEM also to be considered for the project or only an undertaking from the OEM signed duly from the authorised person should be good enough for consideration which is generally the practice.	Refer to AddendumVI
Vol.2	2224	L&T Smart World & Communication	Volume 2- 5.2.2.1 Integrated Command Control Platform	113	Developer Program tools Sensor platform OEM shall provide Developer Program tools that help City to develop/integrate new applications, and/or use solution APIs to enhance or manage existing solution at no extra cost.	1. It is understood that future integration application are to done with no extra cost. Please confirm. 2. What are the future application integration are envisaged?	Tender conditions shall prevail
Vol.2	2225	L&T Smart World & Communication	Volume 2- 5.2.2.1 Integrated Command Control Platform	118	Mobile App Platform should provide a mobile app for the field staff to view real time events, manage their tasks, assign tasks, report incidents and collaborate with back-office and other field officers to address a SOP task	Kindly provide the Number of user license for Field staff mobile app.	50 Mobile App users
Vol.2	2226	L&T Smart World & Communication	Volume 2- Section 4.5 Point 15, Section C Point 4	22	Creation of the "output" of the service, i.e. Certificate, Order etc.	ICCC application functionality is to analyse, visualize and report generation. What specific service is expected in this functionality?	Tender conditions shall prevail
Vol.2	2227	L&T Smart World & Communication	Volume 2- 12.7 Bill of Material (BOM) Summary	398	Supply of ICCC Application Software Integration with Operator Console, Integration of Video Management Software all CCTV Camera with 4 Analytics (min), Integration of ITMS (ATCS, ANPR, RLVD, SVDS, e-Challan), SMS Gateway Integration , Email Gateway Integration, Integration with EMS / NMS, Integration with Video Wall at Command Centre, Integration of City GIS, and other services related to this RFP.	Kindly provide the number of ICCC operator license to be considered	40 Nos.
Vol.2	2228	L&T Smart World & Communication	Volume 2; 4.18	41	The scope of work for the SI while implementing GIS are: 1. Creation of City Base Map	1. What is the AOI total area in sqkm of base map to be created for Guwahati smart city project. 2. It is understood as SI has to create the base map for the project.	Tender conditions prevail refer to response at SL no 577. As per GMDA Master Plan, the jurisdictional area is 328 sq. kms.
Vol.2	2229	L&T Smart World & Communication	Volume 2; 4.18	40	The SI will also be responsible to ensure that the GIS datasets are updated at regular frequency based on nature of datasets to ensure accuracy during the course of the entire project.	1. What is the expected frequency of dataset updation. 2. Which dataset to be updated.	Security audit in every quarter (3 Months)
Vol.2	2230	L&T Smart World & Communication	Volume 2; 4.18	40	The SI is required to carry out implementation of City GIS Platform and seamless integration to ensure ease of use of GIS in the Dashboards at ICCC. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. The SI is required to update GIS maps from time to time.	1. Request to define the field survey scope which requires for ICCC integration. 2. What is the scope for GIS map updation, define the frequency required.	Tender conditions shall prevail
Vol.2	2231	L&T Smart World & Communication	Volume 2; 4.18	41	The scope of work for the SI while implementing GIS are: 3. Mapping of city assets, utilities, smart components in the Map/ Layers	1. Request to list the city assets to be mapped. 2. What is the scope of utilities mapping. Pls list the utilities to be mapped.	Tender conditions prevail refer to response at SL no 577
Vol.2	2232	L&T Smart World & Communication	Volume 2; 4.18	41	Public Transport; Disaster Management; Emergency Management; Sewerage; Storm Water	1- It is assumed as non spatial information for the following will be provided by GSC / department bus route, bus station, bus stop, public toilets, traffic lights, Amenities at each Fire Station, Location of Water Assets, Location of Sewerage Assets (STPs, ETPs etc.), Location of Storm Water drains	Yes GSCL will help bidder to get the basic details and information's from respective owners.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2233	L&T Smart World & Communication	Volume 2; 5.3.13	205	c) GIS details procured shall include the following data with attributes: iii. Building footprints and names	1- Is the name or Door number required for all the building footprints in area of interest.	Tender conditions prevail refer to response at SL no 577
Vol.2	2234	L&T Smart World & Communication	Volume 2; 5.3.13	205	c) GIS details procured shall include the following data with attributes: ii. Administrative boundaries o District and Sub District Boundary. o Town Boundaries.	1- It is assumed as department / GSC will help in identifying the admin boundaries.PI confirm	Tender conditions prevail refer to response at SL no 577
Vol.2	2235	L&T Smart World & Communication	Volume 2; 5.3.13	205	ix. System Functionalities: • the system shall support Mobile platform, Android and Windows	1- Since Windows mobile platform is sunset request to remove the Windows functionality.PI delete the same from specifications	Accepted Now read as- x. "The system shall support Mobile platform, Android and IOS."
Vol.2	2236	L&T Smart World & Communication	Volume 2; 5.3.13	205	ix. System Functionalities: • Industry-standard data formats, unlimited file size or database size, unlimited number of files or tables, and unlimited number of users.	1- How many number of users are envisaged.	Tender conditions prevail The existing clause is self explanatory
Vol.2	2237	L&T Smart World & Communication	Volume 2; 5.3.13	206	xi. GIS base maps shall be installed on work stations at City Operation Centre and City Operation center. GIS maps and data replication shall happen from central system remotely.	As Base map is part of the GIS tool, it is not an installable component.pl confirm the same	Tender conditions shall prevail
Vol.2	2238	L&T Smart World & Communication	Volume 2; 5.3.13	205	ix. System Functionalities: The system shall be compatible with Google Maps, Bing™ Maps, Micro Station, AutoCAD, MGE, FRAMME, G/Technology, ODBC source.	1- What is the compatible expected with Micro station, Autocad as these are 2D drafting tools. 2- MGE, FRAMME, G/Technology are telecom domain tools which system compatible is expected.	Tender conditions prevail The proposed system should be capable of importing and displaying the vector and raster layers prepared under platforms mentioned but the bidder under (1) and (2). The proposed system should allow editing and other spatial routines on the imported datasets in order that the overlay is free of error as much as is possible and can be merged with existing datasets of the implemented system
Vol.1	2239	L&T Smart World & Communication	Volume 1; 3.6.4	47	Manpower Deployment	During Implementation phase nor Operation and Maintenance phase GIS manpower is not requested for. Without necessary manpower meeting RFP requirement will be challenging. Request to add manpower in both the phases.	Tender conditions shall prevail.
Vol.2	2240	L&T Smart World & Communication	Volume 2; 12.7	399	Bill of Material (BOM) Summary 7.1.4 GIS Enterprise Software Nos 1	In BoQ the license requirement is defined for enterprise GIS alone. It is assumed as MSI will propose the following based on the solution, 1- Desktop GIS license 2- Basemap	Tender conditions shall prevail
Vol.2	2241	L&T Smart World & Communication	Volume 2: 4.5: Finalization of Detailed Technical Architecture	18	The SI shall carry out the security audit for vulnerability Assessment and access control assessment of the entire system upon handover and at regular interval during O&M period also.	Our understanding is, this is an internal Security audit and assessment. Is our understanding correct? And also we would request you to define the frequency of these audits during O&M Period	Security audit in every quarter (3 Months)
Vol.2	2242	L&T Smart World & Communication	Volume 2: 4.5 Finalization of Detailed Technical Architecture	18	b) The solution shall support advanced user authentication mechanisms including digital certificates and biometric authentication	There is requirement for PKI based encryption but the same is not reflected in the Bill of Material (BOM) Summary. Please include the same.	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2243	L&T Smart World & Communication	Volume 2: 4.5: Finalization of Detailed Technical Architecture	19	The overarching requirement is the need to comply with ISO-27001 standards of security	Is this the ask for ISO certification as well? Please clarify	Tender conditions shall prevail
Vol.2	2244	L&T Smart World & Communication	VOLUME 2: 5: FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATIONS	61	OEM undertaking that the quoted product will not become end of support/end of life for next 5 years	In Volume 1 Page 28, it mentioned that the product will be end of life for minimum of 24 months from the date of bidding, whereas the highlighted section in volume 2 states for next 5 Years. Please clarify which one to consider?	Refer to AddendumVI

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Vol.2	2245	L&T Smart World & Communication	Volume 2: 6: ICCC Technical Specification Sub Category: Data Center Security & Visibility	124	<p>The solution should provide secure analytics which gives Complete visibility and contextual awareness of users, workloads and application behaviour. The analytics and forensics tool should detect Malicious activity and provide isolation of devices after the attack vector has been identified.</p> <p>The solution should provide monitoring and display of each and every process, process ID, Process owner, Process mapping running on all virtual servers hosting applications., it should have the capability to detect suspicious behaviour based on process behaviour deviations and map this behaviour deviations instantaneously to malware execution patterns</p>	The technical specification mentioned is for EDR. Request to remove from the ICCC requirement	This tool / platform can be internal or external to ICCC. However, If external, ICCC should support seamless integration with third party tool / platform.
Vol.2	2246	L&T Smart World & Communication	Volume 2: 7: Provisioning IT Security Equipment	164	The security Audit of vulnerability assessment, Access Control assessment for entire system shall be performed half yearly and the report with corrective & preventive actions shall be provided	We assume this to be an internal security audit. Please confirm?	Yes this would be done by an external agency.
Vol.2	2247	L&T Smart World & Communication	Volume2: 5.3.5 Intranet firewall with IPS	180	1.7 No limitation for client connecting using SSL VPN	No Solution can support unlimited parameters for any performance as every hardware has an upper limit to support a maximum capacity. So requesting to relax this clause as and defined a number for SSL VPN	The device should support 1000 SSL VPN clients from day-1
Vol.2	2248	L&T Smart World & Communication	Volume :2 : 5.3.5 Intranet Firewall with IPS	180	2.2 The appliance must not have reported a backdoor vulnerability in OS in past five years	Nowadays all the security components /appliances have a Backdoor vulnerabilities. None of the OEM would provide the guarantee on the same. however, the Immediate bug fixes arranged by the respective OEMs . Could you please reconsider to remove this specification?	Clause deleted
Vol.2	2249	L&T Smart World & Communication	Volume :2: 5.3.5 Intranet Firewall with IPS	180	2.4The firewall shall not restrict number of IP addresses and users by licenses	Could you please clarify the requirement? We assume that IPS addresses for the Objects creations and users count for user based access. Please confirm the same.	Tender conditions shall prevail
Vol.2	2250	L&T Smart World & Communication	Volume :2: 5.3.5 Intranet Firewall with IPS	180	7.2.4 Internet Firewall with IPS	As per the RFP Clause 5.3.5 Intranet firewall with IPS is given, but in the BOQ pt no 7.2.4 mentioned as Internet firewall with IPS, Kindly clarify and correct the same if its Typo error.	Refer to AddendumVI
Vol.2	2251	L&T Smart World & Communication	Volume :2: 5.3.5 Intranet Firewall with IPS, Point No. 2.5	181	The firewall shall not impose restriction on the numbers of policies or rules exist on the system.	No Solution can support unlimited parameters for any performance as every hardware has an upper limit to support a maximum capacity. So requesting to relax this clause as "Proposed firewall should support minimum 5000 individual policies or rules from day One"	Deleted
Vol.2	2252	L&T Smart World & Communication	Volume :2: 5.3.6 Next Generation Firewall, Point No. 9	184	Firewall should provide application detection for DNS, FTP, HTTP, SMTP,ESMTP, LDAP, MGCP, RTSP, SIP, SCCP, SQLNET, TFTP, H.323, SNMP	ESMTP is vendor specific supported protocol. So requesting to kindly remove ESMTP clause for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports. So requesting to modify the clause as "Firewall should provide application detection for DNS, FTP, HTTP, SMTP, LDAP, MGCP, RTSP, SIP, SCCP, SQLNET, TFTP, H.323, SNMP".	Firewall should provide application detection for DNS, FTP, HTTP, SMTP/ESMTP, LDAP, MGCP, RTSP, SIP, SCCP, SQLNET, TFTP, H.323, SNMP
Vol.2	2253	L&T Smart World & Communication	Volume :2: 5.3.6 Next Generation Firewall, Point No. 24	185	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	The required functionality is a feature set of dedicated NBA solution, but not of a NGFW. Moreover this feature set is vendor specific. So requesting to kindly remove this clause for a broader participation of reputed security vendors	Clause deleted
Vol.2	2254	L&T Smart World & Communication	Volume :2: 5.3.6 Next Generation Firewall	185	General	Kindly clarify the Log retention period for Next generation firewall (Internet Firewall).	Log retention period for Next generation firewall should be 1 year. Bidder should proposed respective solution accordingly.

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Vol.2	2255	L&T Smart World & Communication	Volume :2: 5.3.6 Next Generation Firewall, Point No. 32	186	The management platform must be capable of integrating third party vulnerability information into threat policy adjustment routines and automated tuning workflows	This feature set is vendor specific. So requesting to kindly remove this clause for a broader participation of reputed security vendors who are leaders as per multiple 3rd party test reports.	Clause deleted
Vol.2	2256	L&T Smart World & Communication	Volume :2: End Host Anti – Virus	187	Endpoint security solution should provide vulnerability protection, which should scan the machine and provide CVE number visibility and accordingly recommend rule for virtual patch against vulnerability	Virtual Patching seems to be OEM biased. Request to remove so that other OEMs also can participate	Deleted
Vol.2	2257	L&T Smart World & Communication	Volume :2: SIEM Solution	190	SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	The highlighted text is OEM biased. Request to have Deep Packet Inspection as a separate requirement so that other SIEM OEM also can participate	Tender conditions shall prevail
Vol.2	2258	L&T Smart World & Communication	Volume :2: 5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	197	The proposed solution must support at least 8,000 concurrent NAC users/devices in a single box	We assume that proposed NAC solution should support at least 8,000 concurrent NAC users/devices in a single box from the capacity perspective. However Kindly clarify the Exact NAC License to be provided from the day 1.	Tender conditions shall prevail
Vol.2	2259	L&T Smart World & Communication	Volume :2: 5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	198	The proposed solution shall have the option to run virtually on: VMware Kernel-based Virtual Machine (KVM) Hyper-V	As per the tender requirement NAC is a appliance based solution, But inside the NAC Specification under Platform Hardware it is mentioned as VM Based solution as well. Kindly clarify the NAC Solution to be an Appliance based or VM Based.	The proposed solution shall have the option to run virtually.
Vol.2	2260	L&T Smart World & Communication	Volume :2: BACKBONE NETWORK & RF CONNECTIVITY - Incident Reporting	267	Incident Reporting a. Detection of security vulnerability with the solutions / workarounds for fixing. b. Hacker attacks, Virus attacks, unauthorized access, security threats, etc.	What would be the frequency of the reporting? Incidental or Monthly?	Monthly.
Vol.2	2261	L&T Smart World & Communication	Volume :2: BACKBONE NETWORK & RF CONNECTIVITY - Security	267	There shall not be any network security breach. A breach is said to have occurred if access is denied, an inappropriate access is provided, data theft, malicious postings in any sites, mis-connection or wrong diversion of lawful data to any unauthorized user / portal / unauthorized external storage Security incidents could consist of any of the following	Access denied events can not be treated as breach, Request you to remove the same	Tender conditions shall prevail
Vol.2	2262	L&T Smart World & Communication	Volume :2: BACKBONE NETWORK & RF CONNECTIVITY - Security	268	Data Theft: - Compromise of any kind of the network.	Please change the highlighted term to "Exfiltration of data out of GSCL network"	Tender conditions shall prevail
Vol.2	2263	L&T Smart World & Communication	Volume :2: RFP System Integrator Vol.02 6.1.8 Compliance to Standards & Certifications	331	c) Apart from the above the SI need to ensure compliance of the project with Government of India IT security guidelines including provisions of: • The Information Technology Act, 2000" and amendments thereof and • Guidelines and advisories for information security published by Cert-In/DeitY (Government of India) issued till the date of publishing of tender notice. Periodic changes in these guidelines during project duration need to be complied with.	Periodic changes in guidelines issued by CERT-In/DeitY may result in a need to implement additional security solutions which may not be part of current RFP. Please clarify who will bear the cost of such solutions in case such a situation arise.	GSCL will bear the cost related to this essential issue.

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Vol.2	2264	L&T Smart World & Communication	Volume :2: 6.1.11 Testing and Acceptance Criteria	338	7. During O&M phase, penetration testing to be conducted on yearly basis and vulnerability assessment to be conducted on half-yearly basis. 8. GSCL will also involve third party auditors to perform the audit/review/monitor the security testing carried out by SI. Cost for such auditors to be paid by GSCL.	1. Please clarify if TPA will also perform security testing during O&M phase or it will be only SI responsibility to perform testing. 2. Frequency of VA (half yearly) does not match with frequency of VA (quarterly) defined at section 4.21.2 VIII Network Assessment. Kindly clarify which one is correct.	Tender conditions shall prevail
Vol.2	2265	L&T Smart World & Communication	Volume :2: Cyber Security Organization Structure	355	The smart city cyber security resources shall be deployed as part of the team during the complete contract period i.e. implementation and operation stage	The resources are not factored under manpower requirement. Request you to factor the same.	Tender conditions shall prevail
Vol.2	2266	L&T Smart World & Communication	Volume :2: 11.5 Smart City IT Asset Management	355	1. The Bidder shall utilize automated asset management tools to prepare the information asset register (IAR) for all IT assets deployed in the Smart city. The IAR shall capture criticality, rating, classification, owner and custodian of the Asset.	There is requirement for automated asset management tool. Kindly add the same as part of bill of material.	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2267	L&T Smart World & Communication	Volume :2: Communications and Operations Management	356	The bidder shall setup Cyber Security Continuous Monitoring process to monitor - physical environment, External service provider activity etc. to detect potential cyber security incidents	Request to factor resources for Security Operation Center	This clause is deleted
Vol.2	2268	L&T Smart World & Communication	Volume :2: 11.7 Access Control	356	1. The Bidder shall ensure that users shall be provided single sign on functionality if required for the applications and solutions deployed in Smart City. 2. The smart city solution should support multiple authentication methods such as Username password, two factor authentication, digital certificate and biometric based authentication. 3. 2FA solution should be capable of being deployed on mobile devices deployed for smart city 4. Solution	There is requirement for Multifactor authentication, SSO, IDAM .Kindly add the same in the bill of material.	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2269	L&T Smart World & Communication	Volume :2: 11.8 Communications and Operations Management	357	30. Bidders shall ensure that Data encryption at rest shall be implemented using departments managed keys, which are not stored in the cloud.	There is requirement for HSM but the same is not reflected in the Bill of Material (BOM) Summary .So kindly add the same in BoM ,or if it is not required kindly delete it from the scope.	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2270	L&T Smart World & Communication	Volume :2: Information Security Audits	359	The bidder shall ensure Information security audits of the smart city infrastructure and related applications by a CERT-In empanelled vendor. VA/PT (Vulnerability assessment and Penetration Testing) activities, audits and application security testing must be carried out on twice-a-year basis ensuring optimal operation and security of the smart city infrastructure and applications.	As per the clause 6.1.11 Testing and Acceptance Criteria, the Penetration testing should be performed Yearly where as 11.11 asks for twice a Year. Please clarify which one needs to be considered	Clause is deleted
Vol.2	2271	L&T Smart World & Communication	Volume :2: Security Operations Center	360	The bidder shall set up Security Operations Centre to ensure continuous monitoring and manage all kinds of cyber security operations related to smart city such as Incident Management, Logging and Monitoring, Anti-virus Management, Threat Intelligence Support, Secure Technology Disposal and other cyber security support activities to ensure secured smart city ecosystem.	Please confirm if the customer expects a 24*7 SOC operation. Threat Intelligence is not part of BOQ, Please include the same	This clause is deleted
Vol.2	2272	L&T Smart World & Communication	Volume :2: 11.14 Security Controls for Cloud Services	360	Bidders must ensure that sensitive data is stored in the smart city database in an encrypted format thereby curtailing the database administrator from reading or modifying the stored sensitive data.	There is requirement for Data Based encryption but the same is not reflected in the Bill of Material (BOM) Summary	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "

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Vol.2	2273	L&T Smart World & Communication	Volume :2: 12.7 Bill of Material (BOM) Summary	398	5.3.4 UTM for 50 concurrent users	We assume that UTM Firewall is required to protect ICCC Users on the MPLS layer . We don't have local break out internet connection or internal circuit on the ICCC. We assume Internet would be available on the data center only. And this UTM would be used in aligned to MPLS Router in ICCC Center. Kindly confirm.	Said UTM required for ICCC location where we will have ILL (internet Lease Line) from local ISP.
Vol.2	2274	L&T Smart World & Communication	Volume :2: 7.2.4/5/6/ Data Center Security	400	Internet Firewall with IPS, Nest Generation Firewall (NGFW) with Anti APT, Server Load Balancer with Web application Firewall, Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	Security Components for DR is not considered. Please add the same	DR is not considered in this RFP.
Vol.2	2275	L&T Smart World & Communication	5.2.2.2 Video-Wall Specifications	127	6. Total Resolution: Minimum resolution of video wall 15000 x 6000	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	2276	L&T Smart World & Communication	5.2.2.2 Video-Wall Specifications	127	14. Screen to Screen Gap: 0.2 mm (or less) @ temperatures between 20~25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm Requesting you to change the screen to screen gap 0.6 or less @temperatures between 20 – 25 Degrees C	For Bigger video wall minimum Screen to Screen Gap has to be 0.6 mm
Vol.2	2277	L&T Smart World & Communication	5.2.2.2 Video-Wall Specifications	128	19. Cube Depth: Total Cube depth including screen module should be less than 500 mm or lower	Request you to change cube depth as per OEM architecture This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	19. Cube Depth: Total Cube depth including screen module should be per OEM architecture
Vol.2	2278	L&T Smart World & Communication	5.2.2.4 Specifications of Display Wall Management Software	130	10. Framework: Video wall cube should be use Python- Django framework for monitoring the system	Request you to change the framework to video wall cube should be use JAVA framework for monitoring system Every OEM has its own software framework to meet the video wall requirements This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Framework: Video wall cube should be use JAVA framework for monitoring the system
Vol.2	2279	L&T Smart World & Communication	5.2.2.5 Specifications of Video-Wall Server	131	9. Others: B. System should also be capable to show high resolution graphic of at least 19000 x 6000 resolution on the screen through this controller system	Request you to change Minimum Resolution has to be 7500 x 3200 or higher This is only SPECIFIC TO ONE OEM only who can provide this; request you to kindly delete this point for fare tendering process so that other OEM can qualify	Minimum Resolution required is 7500 x 3200. Bidders can choose to propose better solutions
Vol.2	2280	L&T Smart World & Communication	Vol-2, 5.2.11.1 IP Phones	140	Display:2 line or more, Colour display for viewing features like messages, directory, Video	Please clarify if this requirement is for Video Phone or Simple IP Phone	Tender conditions shall prevail
Vol.2	2281	L&T Smart World & Communication	Vol-2, 5.2.11.2.6 IP PABX and Communication System with Contact Center Solution.	141	IVRS should support various means of Alarm indications in case of system failures, e.g. Functional error, missing voice message prompt, etc., and shall generate error Logs. SI has to identify other required services from IVR solution.	We understand that Proposed solution can be integrated with existing NMS/EMS system over web-services/API's to capture detail logs of system failure which can be presented over GUI as per requirement. Please validate if the understanding is correct	Yes, Proposed solution can be integrate with existing NMS/EMS system over SNMPV1 to capture detail logs of system failure which can be presented over GUI as per requirement.
Vol.2	2282	L&T Smart World & Communication	Vol-2, 5.2.11.2.7 IP PABX and Communication System with Contact Center Solution.	141	IVRS shall be able to get information /text/data from databases, convert to voice, and speaks it back to the caller in relevant/desired language, including English and Hindi both	IVRS can be integrated with 3rd Party TTS engine over SIP to convert text data fetched from database into voice and speak it back to the caller. Please Provide Number of Concurrent channels required for TTS	12 Concurrent channels required for TTS
Vol.2	2283	L&T Smart World & Communication	Vol-2, 5.2.11.2.8.5 IP PABX and Communication System with Contact Center Solution	141	be able to Read data from HTTP and XML Pages be able to run outbound campaigns	we understand that Proposed solution is required to integrated with any third party database via API to provide details to run outbound campaigns. Kindly validate if the understanding is correct	Yes, Proposed solution is required to integrated with any third party database via API to provide details to run outbound campaigns

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Vol.2	2284	L&T Smart World & Communication	Vol-2, 5.2.11.2.20 IP PABX and Communication System with Contact Center Solution.	143	Multiline support	we understand that proposed solution is required to support Multiple PRI/E1/ SIP line. Please provide clarity	SI bidder to assess the maximum calls.
Vol.2	2285	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#168(5.3.2 Data Center Spine & Leaf Switching Solution)	Should support VXLAN or other virtualization techniques from day 1	VXLAN is an overlay technology, tunnel count is very relevant here to avoid any solution gap.Request to please add " VXLAN L2/L3 gateway support for up to 1K tunnels" to avoid any bottleneck or low capacity switch solution in Leaf and Spine layer.	The proposed solution shall have the option to run virtually.
Vol.2	2286	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#169(5.3.3 Data Center Out of Band Switches)	Active switching throughput should be minimum	Throughput value is missing/typo error.It should be minimum 130 Mpps for 48 port switch.	Active switching throughput should be minimum 136Gbps
Vol.2	2287	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#169(5.3.3 Data Center Out of Band Switches)	Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC).	This is a management switch,PFC is not relevant in this scope.This feature is more relevant in Leaf and Spine layer.Request to please remove this for wider OEM participation.	Tender conditions shall prevail
Vol.2	2288	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#169(5.3.3 Data Center Out of Band Switches)	Should support minimum 8MB buffer.	Request to please change this as "Should support minimum 4MB buffer".So that leading OEM can participate.	6. Should support minimum 4MB buffer
Vol.2	2289	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#169(5.3.3 Data Center Out of Band Switches)	Addition	This is a DC management switch and should be full Layer 3 switch with support of OSPF,BGP,PBR,PIM SM/DM from day-1.Request to please add "Should support OSPF,BGP,PBR,PIM SM/DM from day-1".This will ensure no investment in future for upgradation.	Tender conditions shall prevail
Vol.2	2290	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#193(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Profiling / Visibility	Support the profiling of Android & iOS mobile devices, with the ability to detect: - - Manufacturer / Model - OS Type / Version - IMEI Identifier - MAC Address - IP Address - Installed Applications	Request to please change this as below for wider OEM participation- Support the profiling of Android & iOS mobile devices, with the ability to detect: - - Manufacturer / Model - OS Type / Version - IMEI Identifier - MAC Address - IP Address Installed Application detection is not NAC functionality,it is MDM features.Request to please change this,so that leading OEM can participate.MAC and IP is very relevant information for any device connecting to network to implement granular policy.	Support the profiling of Android & iOS mobile devices, with the ability to detect: - - Manufacturer / Model - OS Type / Version - IMEI Identifier - Serial Number
Vol.2	2291	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#193(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Profiling / Visibility	The proposed NAC solution must support Profiling via SNMP, DHCP fingerprinting, HTTP-agent, NMAP, RSPAN,CDP, LLDP, WMI	Request to please change this as "The proposed NAC solution must support Profiling via SNMP, DHCP fingerprinting, HTTP-agent, NMAP, CDP, LLDP, WMI". So that leading OEM can participate.RSPAN is OEM specific.	The proposed NAC solution must support Profiling via SNMP/DHCP fingerprinting/ HTTP-agent/CDP/RSPAN/NMAP/LLDP/ WMI/equivalent.
Vol.2	2292	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#195(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Client	The proposed NAC solution must support a Unified NAC client shall support both NAC and VPN functionality.	Request to please change this as "The proposed NAC solution must support a NAC client and VPN client".So that leading OEM can participate.	Clause deleted

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Vol.2	2293	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#195(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Client	The proposed NAC solution must support automated provisioning and deployment clients remotely	This is restrictive and also not standard practice.Request to please modify this as "The proposed NAC solution must support automated upgradation with a new version is available".Request to please change this clause for wider OEM participation.	Clause deleted
Vol.2	2294	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#195(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Client	The NAC client must support installation onto the following operating systems: Microsoft, Mac OS, Android, iOS	Request to please change this as "The NAC client must support installation onto the following operating systems: Microsoft, Mac OS, Linux".Posture of mobile devices like iOS and Andoid is MDM functionality,then NAC can be integrated with MDM for policy enforcement.Request to please change so that leading OEM can participate in this project.	The NAC client must support installation onto the following operating systems: Microsoft, Mac OS, Linux etc.
Vol.2	2295	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- VPN	The proposed NAC solution must have the capability to support interfacing and integration with an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN).	AAA-NAC is not a Policy Enforcement Point it is a Policy Decision Point.So Ipsec/SSL VPN can utilize AAA-NAC as an Authentication/Authorization source.Request to please change this clause as "The proposed NAC solution must support an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN) as an Authentication/Authorization source".SO that leading OEM can participate.	The proposed NAC solution must support an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN) as an Authentication/Authorization source
Vol.2	2296	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- VPN	The proposed solution should have an option to enable session migration between NAC and SSL Sessions in future for Seamless user experience accessing corporate resources from Home, Public or corporate Network	This is restrictive and OEM specific approach.Request to please remove this clause for wider OEM participation.	Clause deleted
Vol.2	2297	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- License Management System	The proposed solution should have a centralized license management system with capability to lease licenses to different appliances from a central pool	OEM to OEM licensing architecture differs.Request to please modify this as "The proposed solution should have sufficient license from day-1 to activate all the features asked in this scope".	The proposed solution should have sufficient license from day-1 to activate all the features asked in this scope
Vol.2	2298	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- License Management System		Requesting the clarity - How many devices for endpoint posture check from Day 1? How many employee BYOD devices are expected? What kind of redundancy is required? Single location (DC-1:1) or multiple locations (DC-DR).	Approximately 4000 End Points

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Vol.2	2299	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)-Others Features	Requesting Addition as "Other required features"	Requesting to please add the following for better control of Network-NAC solution shall have inbuilt TACACS+ Server capability to support Device administrator secure authentication, privilege-based access and audit logging	Tender conditions shall prevail
Vol.2	2300	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)-Others Features	Requesting Addition as "Other required features"	Guest portal with Sponsor based authentication, OTP-based authentication (SMS and SMTP gateway integration) and social-login authentication	Tender conditions shall prevail
Vol.2	2301	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)-Others Features	Requesting Addition as "Other required features"	Inbuilt utilities for interactive policy simulation and monitor-only mode for assessing the policies before applying to the production network	Tender conditions shall prevail
Vol.2	2302	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)-Others Features	Requesting Addition as "Other required features"	The NAC solution shall detect Virtual machine running on a PC	Tender conditions shall prevail
Vol.2	2303	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#302.5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	Request to please change this as "0 degree to 45 degree, shall support 0% to 95% noncondensing humidity conditions".45 degree is a standard for any inhouse deployment and is available with all the leading OEM.s.Request to please change for wider OEM participation.	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	2304	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#303.5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Support upto 4K VLANs with jumbo frame handling capability of 13K packet size	Request to please change this as "Support upto 4K VLANs with jumbo frame handling capability of 9K packet size". 9K is standard and available with all the leading OEM's.Request to please relax for wider OEM participation.	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet Size or better
Vol.2	2305	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page#303.5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	OEM to OEM architecture differs.Request to please modify this as "Should support Ethernet Ring Protection/equivalent offering sub 50-ms protection using ERPS as per ITU-T G.8032".	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.

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Vol.2	2306	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page-296#(5.5.3.1 Core Router)	Each Router shall have below routed ports - i) 32xSFP+ ports, populated with - 16x10Gbps, 10Km SM Transceivers - 4x10Gbps 40Km SM transceivers - remaining 12xSFP+ should support both 1Gbps and 10Gbps transceivers for future scalability. ii) 12x40Gbps QSFP ports, populated with - 8x40Gbps, 10km SM Transceivers to connect to PoPs - 4x40Gbps Cables/Transceivers (Multimode) required to connect Data Center Appliances as per design requirement..	Requesting the clarity about the ports requirement here, mentioned ports requirement is very higher side. Understand that 10G SFP+ ports is required but 32 no's is very higher count. Router ports offering will be based on design requirements or mentioned ports need to offer by default. Request to please consider 40G(4x10G) for wider OEM participation.	Each Router shall have below routed ports - i) 32xSFP+ ports, populated with - 24x10Gbps, 10Km SM Transceivers - remaining 8xSFP+ should support both 1Gbps and 10Gbps transceivers for future scalability. ii) 8x40Gbps QSFP ports, populated with - 4x40Gbps Cables/Transceivers (Multimode) required to connect Data Center Appliances as per design requirement.. - remaining 4x40Gbps ready ports for future scalability
Vol.2	2307	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page-296#(5.5.3.1 Core Router)	Should have minimum 32GB RAM	The architecture and technology differs from OEM to OEMs. 8GB RAM is sufficient to store the IOS, Configuration files and Log files in HPE router without any degradation of performance because all the features, application and protocols supports from day one. No additional licences are required for upgradation for features and protocols. Request you to please modify this clause as "Should have minimum 8GB RAM". So that leading OEM can participate.	Should have minimum 16GB RAM
Vol.2	2308	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page-298#(5.5.3.1 Core Router)	NEBS - GR-1089-Core - GR-63-Core	Request to please remove this for wider OEM participation. NEBS (Network Equipment-Building System) describes the environment of a typical United States only. Request to please remove this clause.	Clause deleted
Vol.2	2309	L&T Smart World & Communication	Volume 2: Scope of Work & Technical Specifications	Page-298#(5.5.3.1 Core Router)	Segment routing for IPv4 Segment routing for IPv6 Topology-Independent Loop-Free Alternate (TI-LFA) for faster convergence Remote-LFA Segment Routing (SR)-Any cast Segment Identifier (SID) SR and LDP integration support	This is restrictive and OEM specific terminology and technology. Request to please remove for wider OEM participation.	i) Segment routing for IPv4 ii) Segment routing for IPv6 iii) Topology-Independent Loop-Free Alternate (TI-LFA) for faster convergence v) Remote-LFA
Vol.2	2310	L&T Smart World & Communication	5.1.2.4 Storage/Recording Requirements	66	Point b - 30 days storage of all the surveillance CCTV camera feeds to be stored at Data Centre and Flagged data (critical incidents) will be stored for approximately 90 days, permanent storage envisaged on secondary/backup storage	We would request to consider only "Disk based" storage as "Secondary / Backup storage" since Tape storage is almost reaching to the end of life-cycle. Considering that vendor need to maintain it for 5 years - hence would request to consider disk based Secondary / Backup storage for storing of CCTV Camera feeds. Please confirm?	Tender conditions shall prevail
Vol.2	2311	L&T Smart World & Communication	5.1.2.4 Storage/Recording Requirements	66	Point e - 365 days storage of traffic junction data for ATSC at Data Centre and Flagged data will be stored for approximately 5 years.	Since flagged data will be stored for Approximately 5 years hence would request to consider only disk based solution. Although we can provide the Tape Based solution however considering the long term life-cycle - would request to consider Disk based solution only from both Management and data life-cycle perspective. Please confirm?	Tender conditions shall prevail
Vol.2	2312	L&T Smart World & Communication	5.1.2.4 Storage/Recording Requirements	66	Point f - Above all systems except ITMS are required to be stored online thirty (30) days of video for all cameras on primary storage, balance 60 days will be on low cost secondary storage /tape library.	Request to remove the tape Library option. Although as vendor - we can provide the Tape library option however considering the long-term life-cycle, Data consistency and available - low cost secondary storage would be preferred option. Requesting to remove Tape Library option. Please confirm?	Tender conditions shall prevail
Vol.2	2313	L&T Smart World & Communication	5.3.11 Storage Specifications (Point 5 - Storage)	199	Should support disaster recovery mechanism natively	Considering that storage will be used for Video data hence our understanding is that even if one flagged video file needs to be replicated from storage to other location - it shall be possible natively from storage. Please confirm?	Tender conditions shall prevail
Vol.2	2314	L&T Smart World & Communication	5.3.11 Storage Specifications (Point 5 - Storage)	199	Should be able to scale out without service interruption	Considering the requirement of 10PB scalability - Request to please specify the number of scale-out controllers requirement. Our understanding is that offered solution shall be able to scale-out at-least 32 number of nodes or controllers. Please confirm?	f) Should be able to scale out/scale up without service interruption
Vol.2	2315	L&T Smart World & Communication	5.3.11 Storage Specifications (Point 6 - Hardware platform)	200	d) Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports. e) Storage shall have minimum front-end support for 16 Gb and backend support for minimum 12 Gb.	Seems to be typo. Since authorities have already mentioned 8 x 10/40Gbe hence clause e shall be "Storage shall have minimum front-end support for 10Gb and backed support for minimum of 12Gb. Please confirm?	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.

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Vol.2	2316	L&T Smart World & Communication	5.3.12 Hyper Converged Infrastructure (HCI) (Point 6 - Virtualization - Sub point 6.1)	203	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V & VMware	Every HCI appliance uses the different architecture while providing the required capability to customer. Considering it - would request to modify the clause as "The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed." Request to modify the same for participation of other competitive and reputable OEMs too.	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware or RedHat or KVM or AHV or Xen
Vol.2	2317	L&T Smart World & Communication	5.3.12 Hyper Converged Infrastructure (HCI) (Point 6 - Virtualization - Sub point 6.4)	204	the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solutions without the need for agents inside the virtual machines.	This clause seems to be very specific to a vendor. Request to either delete this clause or modify it as "the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solution"	Tender conditions shall prevail
Vol.2	2318	L&T Smart World & Communication	5.3.12 Hyper Converged Infrastructure (HCI) (Point 6 - Virtualization - Sub point 6.7)	204	The solution shall support provisioning across multihypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	Request you to delete this clause or modify it as " The solution shall support provisioning from at-least one of the hypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments." Request to modify the same for participation of other competitive and reputable OEMs too.	Clause Amended Kindly read as, "6.7. The solution shall support provisioning from at-least one of the hypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.
Vol.2	2319	L&T Smart World & Communication	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	2320	L&T Smart World & Communication	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 3900 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	2321	L&T Smart World & Communication	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 90,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	2322	L&T Smart World & Communication	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	2323	L&T Smart World & Communication	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	2324	L&T Smart World & Communication	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	2325	L&T Smart World & Communication	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.

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Vol.2	2326	L&T Smart World & Communication	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	2327	L&T Smart World & Communication	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	2328	L&T Smart World & Communication	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	2329	L&T Smart World & Communication	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	2330	L&T Smart World & Communication	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	2331	L&T Smart World & Communication	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	2332	L&T Smart World & Communication	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to addendum XII
Vol.2	2333	L&T Smart World & Communication	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	refer to addendume VI
Vol.2	2334	L&T Smart World & Communication	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	refer to addendume VI
Vol.2	2335	L&T Smart World & Communication	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)

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Vol.2	2336	L&T Smart World & Communication	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card.100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)
Vol.2	2337	L&T Smart World & Communication	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	2338	L&T Smart World & Communication	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	2339	L&T Smart World & Communication	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	2340	L&T Smart World & Communication	Volume 2	167 (24)	Should support Unidirectional Link Detection Protocol (UDLD)	Kindly change this clause to the following: Should support Unidirectional Link Detection Protocol (UDLD) / equivalent for wider OEM Participation.	Clause deleted
Vol.2	2341	L&T Smart World & Communication	Volume 2	167 (28)	The solution should support NSSU/ISSU or equivalent.	For NSSU / ISSU to function properly, there has to be two management engine and this is applicable primarily to chassis based switch. The solution asked is Spine & Leaf architecture where failure of any one device won't stop forwarding traffic if properly deployed. So we request to remove this clause to avoid ambiguity.	Clause deleted
Vol.2	2342	L&T Smart World & Communication	Volume 2	168 (46)	The OEM should have service Center in Eastern part of India.	Kindly change this clause to "The OEM or its business partner should have service Center in Eastern part of India." As this clause is not mentioned for other devices (Ex. Intranet Firewall with IPS & Next Generation Firewall), may consider to remove this clause.	46. The OEM should have service Center in India.
Vol.2	2343	L&T Smart World & Communication	Volume 2	169 (3)	48 x 1000BaseT ports with 2xSFP+ Uplinks	2xSFP+ uplinks for 48 port switch would introduce very high over-subscription. Kindly change this to "48 x 1000BaseT ports with 4xSFP+ Uplinks".	Tender conditions shall prevail
Vol.2	2344	L&T Smart World & Communication	Volume 2	169 (6)	Should support minimum 8MB buffer.	Higher buffer may delay delivery of packet and delayed delivery of packet might be more harmful for real-time applications (most of the Smart City applications would be such). Kindly change this clause to "Should support minimum 4MB buffer".	6. Should support minimum 4MB buffer
Vol.2	2345	L&T Smart World & Communication	Volume 2	170 (20)	Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC).	Kindly change this clause to "Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC) or IEEE 802.3x Flow Control.	Tender conditions shall prevail
Vol.2	2346	L&T Smart World & Communication	Volume 2	171 (35)	The OEM should have service Center in Eastern part of India	Kindly change this clause to "The OEM or its business partner should have service Center in Eastern part of India." As this clause is not mentioned for other devices (Ex. Intranet Firewall with IPS & Next Generation Firewall), may consider to remove this clause.	35. The OEM should have service Center in India
Vol.2	2347	L&T Smart World & Communication	Volume 2	180 (2.7)	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	As this is Intranet firewall, SD-WAN functionality won't be used. Kindly remove this clause.	Tender conditions shall prevail
Vol.2	2348	L&T Smart World & Communication	Volume 2	184 (6)	Should support 5 Gbps of IPSec VPN throughput and must support minimum 10000 VPN user	5 Gbps of IPSec VPN throughput for 10,000 users would lead to only 0.5 Mbps throughput per user. Kindly change this clause to "Should support 5 Gbps of IPSec VPN throughput and must support minimum 5000 VPN user" so that each user gets at least 1 Mbps throughput.	Should support 5 Gbps of IPSec VPN throughput and must support minimum 5000 VPN user

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Vol.2	2349	L&T Smart World & Communication	Volume 2	302 (2)	Switch type Layer 2	Kindly change the clause to "Switch type Layer 2 / Layer 3" for deployment flexibility.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2350	L&T Smart World & Communication	Volume 2	303 (28)	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	2351	L&T Smart World & Communication	Volume 2	303 (28)	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	2352	L&T Smart World & Communication	Volume 2 / Technical Specifications of Traffic Controller	222	EN 50556/AS/NZS	Requesting you to kindly Change the Clause "EN 0556/AS/NZS/Equivalent " so that other reputed OEMs also Qualify.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,
Vol.2	2353	L&T Smart World & Communication	Volume 2 / Technical Specifications of Traffic Controller	222	ISO 9001:1994 for design & servicing.	Requesting you to kindly Change the Clause " ISO 9001:1994 for design & servicing / ISO 9001:2015 / Equivalent " so that other reputed OEMs also Qualify.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,
Vol.2	2354	L&T Smart World & Communication	Volume 2 / Technical Specifications of Traffic Controller	222	EN 12675/IEC 60068 for functional safety,	Requesting you to kindly Change the Clause "EN 12675/IEC 60068 for functional safety /Equivalent "so that other reputed OEMs also Qualify.	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675for functional safety,
Vol.2	2355	L&T Smart World & Communication	Volume 2 / Technical Specifications of Traffic Controller	222	Number of signal head outputs: minimum 72 or as required	Requesting you to kindly modify the clause to "Number of signal head outputs: minimum 32 and extendable up to 72 (if needed)"	Number of signal head outputs: minimum 36 or higher as per site requirement
Vol.2	2356	L&T Smart World & Communication	Volume 2 / Technical Specifications of Traffic Controller	223	Temperature range: 0 – 70 deg. C	Requesting you to kindly modify the clause to" Temperature range: 0 – 60 deg. C"	27. Temperature range: 0 – 60 deg. C

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Vol.2	2357	L&T Smart World & Communication	Volume 2 / 5.4.1.5 Camera /Thermal Vehicle Detector	223	5.4.1.5 Camera /Thermal Vehicle Detector	Requesting you to let us know whether to use Thermal camera or normal 2MP HD Camera with Processing as Video based detectors.	Clause to read as 5.4.1.5 3D Radar /Thermal Vehicle Detector Point No 4, instead of camera read as Vehicle detector
Vol.2	2358	L&T Smart World & Communication	Volume 2/ 5.1.3/ Dome CCTV Camera	71	Wide Dynamic Range - >90dB	Requesting you to kindly Change the Clause "90dB or better	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
Vol.2	2359	L&T Smart World & Communication	Volume 2 / 5.1.3/ Dome CCTV Camera	71	Three level Password Protection	Requesting you to kindly Change the Clause " Three level Password Protection / Multiple level Password protection". So that other reputed OEMs also Qualify.	Multilevel password Protection
Vol.2	2360	L&T Smart World & Communication	Volume 2/ 5.1.3/ Dome CCTV Camera	71	Certification - UL, EN, CE, FCC, RoHS, ONVIF profile S, G&T	Requesting you to kindly Change the Clause " UL/ EN, CE, FCC, RoHS, ONVIF profile S, G&T".	Tender conditions shall prevail
Vol.2	2361	L&T Smart World & Communication	Volume 2 / 5.1.3.2 /Fixed Bullet CCTV Cameras	75	Three level Password Protection	Requesting you to kindly Change the Clause " Three level Password Protection / Multiple level Password protection". So that other reputed OEMs also Qualify.	Multilevel password Protection
Vol.2	2362	L&T Smart World & Communication	Volume 2 / 5.1.3.2 /Fixed Bullet CCTV Cameras	75	Certification - UL, EN, CE, FCC, RoHS, ONVIF profile S, G&T	Requesting you to kindly Change the Clause " UL/ EN, CE, FCC, RoHS, ONVIF profile S, G&T".	Tender conditions shall prevail
Vol.2	2363	L&T Smart World & Communication	Volume 2 / 5.1.3.3/PTZ CCTV Cameras	78	Tilt – 300/s	Requesting you to kindly Change the Clause " Tilt 200/sec or better"	Tilt: 3° - 90°, up to 100°/s or better
Vol.2	2364	L&T Smart World & Communication	Volume 2 / 5.1.3.3/PTZ CCTV Cameras	78	Privacy Masks- 24 individually configurable privacy masks	Requesting you to kindly Change the Clause " Privacy Masks- 8 individually configurable privacy masks or better"	Tender conditions shall prevail
Vol.2	2365	L&T Smart World & Communication	Volume 2 / 5.1.3.3/PTZ CCTV Cameras	79	Three level Password Protection	Requesting you to kindly Change the Clause " Three level Password Protection / Multiple level Password protection". So that other reputed OEMs also Qualify.	Tender conditions shall prevail
Vol.2	2366	L&T Smart World & Communication	Volume 2 / 5.1.3.3/PTZ CCTV Cameras	79	Certification - UL, EN, CE, FCC, RoHS, ONVIF profile S, G&T	Requesting you to kindly Change the Clause " UL/ EN, CE, FCC, RoHS, ONVIF profile S, G&T".	Tender conditions shall prevail
Vol.2	2367	L&T Smart World & Communication	Volume 2 / 12.7 Bill of Material (BOM) Summary	399	5.4.7 Fixed Dome Cameras with 32	Kindly clarify this line item why "with 32" is mentioned	this is typing mistake and Read as - 5Fixed Dome Cameras' only. Please ignore "with 32"
Vol.2	2368	L&T Smart World & Communication	Volume 2 / 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230	3. Wrong Lane Driving / Stoppage with ANPR (WLD)	Exact Quantities are not mentioned in Bill of Materiel for the same. Please include it into BOQ and provide number of lanes for the same.	Bidder have to perform preliminary survey to certain the lanes so that complete stretch is covered
Vol.2	2369	L&T Smart World & Communication	Volume 2 / 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230	c) The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India.	Requesting you to kindly Change the Clause " "c) The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in in at least three projects in India / last Five years in India." so that other reputed OEMs also Qualify.	The ITMS OEM should have supplied and deployed proposed system for atleast 500 ANPR systems, 100 RLVD systems and 200 SVD systems in India

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Vol.2	2370	L&T Smart World & Communication	Volume 2 / 5.4.2.1 Functional Requirement – Traffic Violation Detections System	230	e) The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases.	As per the clause we understand that Only one type of database is used among these databases ie The system should support Microsoft SQL/MySQL /PostgreSQL/Oracle databases .Kindly confirm	Point d and f as per bidder solution e) The system should support Microsoft SQL/ MySQL/ PostgreSQL/Oracle databases.
Vol.2	2371	L&T Smart World & Communication	Volume 2 / 5.4.2.2 Functional/General Requirements Red Light Violation Detection (RLVD) System	231	c) The system shall have in-built tool to facilitate the user to compose detail evidence by stitching video clips from any IP camera in the junction (including but not limited to the red-light violation detection camera, evidence camera), and any other surveillance cameras in the vicinity of the spot of incidence. The entire evidence should be watermarked and encrypted to stand the court of law.	Stitching of video clips is considered as tempering of the evidence video clip, which will not be acceptable in the court of law as an acceptable evidence for violation. Hence we request you to kindly amend the clause as : "c) The system shall have in-built tool to facilitate the user to compose detail evidence by RLVD Camera in the junction. The entire evidence should be watermarked and encrypted to stand the court of law."	The system shall have in-built tool to facilitate the user to compose detail evidence by RLVD Camera in the junction. The entire evidence should be watermarked and encrypted to stand the court of law
Vol.2	2372	L&T Smart World & Communication	Volume 2 / 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems 4. Digital Network Camera	237	f. Lens: Auto IRIS 5~50mm /8 – 40 mm, F1.4	Under RLVD system there are two types of camera one is RLVD Overview Camera and another one is ANPR camera .For Overview Camera Lens size shall be 2.8mm to 12mm to cover wide field of view. For ANPR 5~50mm /8 – 40 mm, F1.4 Lens will be used. Hence Kindly change the clause, RLVD OVER VIEW LENS: 2.8mm – 12 mm & ANPR Camera : Auto IRIS 5~50mm /8 – 40 mm, F1.4	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement
Vol.2	2373	L&T Smart World & Communication	Volume 2 / 5.4.2.5 Technical Specification - ANPR SW Requirements 9. Central Management Module	244	b. ANPR Specification Base Specification of Fixed Box Cameras (Section 6.2.2.2 of Annexure I) must be part of the	ANPR Camera HW specifications are mentioned in section "5.4.2.6 ANPR HW Requirements" in the RFP. We understand this is typo error. Kindly clarify	Base Specification of Fixed Box Cameras must be part of the 5.4.2.6 ANPR HW Requirements
Vol.2	2374	L&T Smart World & Communication	Volume 2 / 5.4.2.6 ANPR HW Requirements	246	28. Flexible angle adjustment : 30°, 45°, 60°, 90°	ANPR camera has a fixed field of view (i.e. 3.5 mtr in width) and its angle is also kept fixed to capture the number plate with good accuracy. Flexible angle adjustment is useful with surveillance cameras and not for ANPR application. Hence, we request you to kindly amend the clause as : "28. Flexible angle adjustment : as per OEM requirement"	Flexible angle adjustment : as per OEM requirement
Vol.2	2375	L&T Smart World & Communication	Volume 2 / 5.4.2.1 IR – Illuminator (In case of Separate IR)	246	1. IR control: Adjustable IR intensity	Fixed IR intensity is preferable to a level where the ANPR camera can capture both HSRP and Non-HSRP with good accuracy. Variable/adjustable IR control with high intensity is a problem for capturing reflective or HSRP and variable IR control with low intensity is an issue for capturing non-standard number plates. Hence, we request you to kindly make it optional and amend the clause as : "1. IR control : IR intensity as per OEM requirement"	IR control : IR intensity as per OEM requirement
Vol.2	2376	L&T Smart World & Communication	Volume 2 / 5.4.2.1 IR – Illuminator (In case of Separate IR)	246	3. Beam Angles : 10°, 20°, 30°, 60°, 80°, and 95°	ANPR camera has a fixed field of view (i.e. 3.5 mtr in width) and each lane/ANPR Camera has dedicated IR Illuminator to capture the number plates at night. Since the ANPR camera angle is fixed , Beam angle of IR is also kept fixed to capture the number plate with good accuracy. Multiple Beam angle is useful with surveillance cameras and not for ANPR application. Hence, we request you to kindly make it optional and amend the clause as : "3. Beam Angles : as per OEM requirement"	Beam Angles : as per OEM requirement
Vol.2	2377	L&T Smart World & Communication	Volume 2 / 5.4.2.1 IR – Illuminator (In case of Separate IR)	247	8. Standards: UL, CE, FCC, EN	We request you to kindly amend this clause as "8. Standards: UL/EN,CE,FCC "	Tender conditions shall prevail

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Vol.2	2378	L&T Smart World & Communication	Volume 2 / 12.7 Bill of Material (BOM) Summary / 1.1 Traffic Violation Detection System at Traffic Junctions	395	1.1.13 ANPR Analytics Software License with No Helmet, Triple Ride of 2-wheeler, No Seatbelt, Driver talking on Phone, Free left Blocking while driving with ANPR : 452nos.	To do and capture - No Seatbelt, Driver talking on Phone, Free left Blocking while driving with ANPR, it requires placing of setup from front or side, whereas in RLVD system camera is placed in the way that it capture Vehicle license plate from the back, so that Evidence (showing status of Traffic Light, Stop line/zebra crossing, traffic clutter etc.) can be captured effectively. Hence we request you to kindly remove "No Seatbelt, Driver talking on Phone, Free left Blocking while driving with ANPR" from here.	1.1.13 ANPR Analytics Software License with No Helmet, Triple Ride of 2-wheeler, 3 Free left Blocking while driving with ANPR : 452nos.
Vol.2	2379	L&T Smart World & Communication	Volume 2 / 5.1.2.1 Information to be captured by Edge Devices	64	It is estimated that not more than 5% of the cameras would be required to be viewed at higher FPS at a given point of time).	Kindly quantify "Higher FPS" as the same is not mentioned anywhere else in the RFP	Tender conditions shall prevail
Vol.2	2380	L&T Smart World & Communication	Volume 2 / 12.3 Locations for SVD 12.7 Bill of Material (BOM) Summary	394-400	1.1.3 Sped Violation Detection System, Including the complete solutions - a) 9MP IP Camera, b) 4D tracking Radar, c) Local Processing Unit, d) LED Flash, e) Software License Lifetime use fee, f) Junction Box with Network, Power Component, Cables, accessories, and installations Nos 6	As per the BOQ the SVD camera quantity is 6 Nos. and as per the SVD location take the camera quantity is 12 Kindly clarify the correct quantity of camera	Yes this is correct QTY. As we have mentioned; 1.1.3 -"Speed Violation Detection System, Including the complete solutions - 6 Nos. 1.1.4 - Vehicle Activated Radar Speed Signs - 12 Nos. Because One Speed Detection Camera will cover 2 Lane so Camera Requirement is 6 Only.
Vol.2	2381	L&T Smart World & Communication	Volume 2 / 5.1.4.14 Video Analytics	105	All cameras should support motion detection; camera tampering. All cameras must be capable to run two analytics in addition to motion detection and camera tampering as required at any given time.	As per RFP we understand that , in addition to Camera Tampering and motion detection two analytics will run on all fixed cameras . Hence the total number of Video analytic are 2846 Nos (1423 X 2 Analytics = 2846)Kindly confirm. We are not finding separate line item for VA in Bill of Material .Kindly include the same.	All cameras should run minimum 8 different types of analytic rules to each camera simultaneously in addition to support of motion detection and camera tampering detection
Vol.2	2382	L&T Smart World & Communication	Volume-2- 5.2.12 UPS 50 KVA at ICC	148	Capacity- 50 KVA - modular UPS with external Isolation Transformer and 60 Mins Power Backup.	Standard Frame of Modular UPS comes in 60 KVA hence requesting you to convert rating from 50 to 60KVA.	Tender conditions shall prevail
Vol.2	2383	L&T Smart World & Communication	Volume-2- 5.2.12 & 5.4.2.8 & 5.1.3.8 UPS 50 KVA at ICC & UPS for ITMS & Field	149/248/89	50kva - UPS OEM should have their own engineer with service centre with adequate stock of spares at Guwahati for providing 24 x 7 x 365 On-site support. Field UPS & 2kva for ITMS - Service Support - UPS OEM should have their own established service center and Service Engineers in Guwahati to attend any issues on 24x7 basis. Service Center should be fully operational for last 5 years	Service Center support should be of either OEM or Authorized OEM Service Partner for healthy competition	Tender conditions shall prevail
Vol.2	2384	L&T Smart World & Communication	Volume-2- 5.4.2.8 & 5.1.3.8	248/88	POINT NO 15 - General Operating Temperature & Humidity - Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (non-condensing) As per Guwahati weather conditions	As per industry standards, the operating temperature for UPS shall be 40 Degree C & Battery operating temperature to be 25 Degree C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	2385	L&T Smart World & Communication	Volume-2- 5.4.2.8 & 5.1.3.8	248/88	POINT NO 17 -Bypass - Automatic, Manual Bypass Switch	All small rating UPS of reputed OEM has automatic Static Bypass. so pl modify the clause Bypass- Automatic / Manual Bypass Switch	Tender conditions shall prevail
Vol.2	2386	L&T Smart World & Communication	Volume-2- 5.4.2.8 & 5.1.3.8	248/89	POINT NO 20 - b) RS232/Management Port for onsite servicing. c) LED indicators to be mentioned for Load/Backup/Overload/et	Request to amend it as b) RS 232 or USB port for interface c) LED indicators or display on LCD for status of Load/Backup/Overload etc	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2387	L&T Smart World & Communication	5.3.1 Technical Specifications of State Data-Center	159	Point 1 says -> The DC will be co-located in the State Data Centre Building. Rack Space & Power will be provided by SDC. Any charges related to this will be directly paid by GSCL to State Data Centre. Point 2 says - SI is required to implement all the hardware/software and related items as per the design offered for the smart city infrastructure including SLA monitoring and Help desk management, in a Tier III or above data Center complying to standard guidelines as per Telecommunications Infrastructure UPTIME/TIA-942.	Kindly clarify whether Data Centre is to be offered by SI with all NON-IT & Passive Infra or shall be provided by SDC/GSCL in complete where SI will bring only Active components like Servers/Switches etc	Data Centre is to be co-located at SDC, all NON-IT & Power backup shall be provided by SDC/GSCL in complete where SI will bring only Active components like Servers/ Switches/ Storage/ Firewall and Software etc.
Vol.2	2388	L&T Smart World & Communication	5.0 FUNCTIONAL REQUIREMENTS & TECHNICAL SPECIFICATIONS	62	POINT NO 12 -> OEM should have end user web interface to log case with product serial number.	We understand that this is asked from Active component OEMs. And Passive OEMs can offer 24X7 TOLL FREE NOS	Yes, this clause for Active Components OEMs and for Passive OEMs can offer 24X7 TOLL FREE Nos.
Vol.2	2389	L&T Smart World & Communication	3.1 Data center (D	154 / 159	5.3.1 Data Centre (DC) 1. The DC will be co-located in the State Data Centre Building. Rack Space & Power will be provided by SDC.	Whether Online UPS System & Precision A.C along with all NON-IT infrastructure will be provided by SDC/GSCL because clause 5.2.17 Electrical work for Data Center & ICCC on pg no 154 mentioned for Online UPS for Data Centre as well as for ICCC	There is no any Power and Precision AC equipment required at SDC.
Vol.3	2390	L&T Smart World & Communication	Volume -3	38	Battery replacement for all equipment / devices procured Replacement of various equipment batteries. This excludes regular maintenance of the UPS and its batteries. Measurement Tool: SLA Monitoring tool for inventory management. Batteries to be replaced every 3rd year	Whether battery are to be replaced for all UPS every 3rd year	Tender conditions shall prevail.
Vol.2	2391	L&T Smart World & Communication	Volume 2: 4.5: Finalization of Detailed Technical Architecture	18	3a) The security services used to protect the solution shall include: Identification, Authentication, Access Control, Administration and Audit and support for industry standard protocols.	There is requirement for Multifactor authentication, SSO, IDAM. Kindly add the same in the bill of material.	Any additional item required to fulfill the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2392	L&T Smart World & Communication	Finalization of Detailed	18	3c) Security design should provide for a well-designed identity management system, security of physical and digital assets, data and network security, backup and recovery and disaster recovery system.	1. Please include Bill of Material (BoM) with the total count of user licences for Centralised Identity & Access Management (including Single Sign On).	Any additional item required to fulfill the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2393	L&T Smart World & Communication	Volume 2: 4.5: Finalization of Detailed Technical Architecture	19	Single-Sign ON- The application should enable single-sign-on so that any user once authenticated and authorized by system is not required to be re-authorized for completing any of the services in the same session. For employees of the department concerned, the browser-based application accessed on the intranet, through single-sign-on mechanism, will provide access to all the services of the departments concerned (based on their roles and responsibilities), Help module, basic and advanced reporting etc. Similarly, for external users (citizens, etc.), based on their profile and registration, the system shall enable single-sign on facility to apply for various services, make payments, submit queries /complaints and check status of their applications.	1) Do external users require SSO with MFA, If yes, please confirm? 2) Please include in the BoM.	Tender conditions shall prevail
Vol.2	2394	L&T Smart World & Communication	Volume 2: 4.5: Finalization of Detailed Technical Architecture	20	8. Support for PKI based Authentication and Authorization- The solution shall support public key infrastructure (PKI) based Authentication and Authorization, in accordance with IT Act 2000, using the Digital Certificates issued by the Certifying Authorities (CA). In particular, 3 factor authentications (login id & password, biometric and digital signature) shall be implemented by the SI for officials/employees involved in processing citizen services.	1. We understand the 3 factor authentication will be applicable only for internal employees. Please confirm?	All the person who working on this critical project

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Vol.2	2395	L&T Smart World & Communication	RFP System Integrator Vol.02	190	1. SIEM and Forensics Platform is required for complete visibility to identify and investigate attacks, the ability to detect and analyze even the most advanced of attacks before they can impact critical data, and the tools to take targeted action on the most important incidents. Complete visibility across logs, packets and end point is critical. Appliance based solution for better performance is required. The solution should collect, analyze, and archive massive volumes of data at very high speed using multiple modes of analysis. The platform should also be able to ingest threat intelligence about the latest tools, techniques and procedures in use by the attacker community to alert government on potential threats that are active.	Can the bidder quote a software. Or virtual machine or cloud solution for scalability/ data resiliency & high availability.	Tender conditions shall prevail
Vol.2	2396	L&T Smart World & Communication	Volume :2: 11.7 Access Control	356	1. The Bidder shall ensure that users shall be provided single sign on functionality if required for the applications and solutions deployed in Smart City. 2. The smart city solution should support multiple authentication methods such as Username password, two factor authentication, digital certificate and biometric based authentication. 3. 2FA solution should be capable of being deployed on mobile devices deployed for smart city 4. Solution should have the capability to define access based on time of day, day of week or by group or user defined access. 5. The smart city solution should have the functionality to provide authentication based on the role.	1. Please include Bill of Material (BoM) with the total count of user licences for Centralised Identity & Acces Management (including Single Sign On) 2. Please include BoM requirements for three factor authentication (Digital Signatures & Biometric devices) 3. Please include Bill of Material with the total count of user licences for Federated identity Management	Tender conditions shall prevail
Vol.2	2397	L&T Smart World & Communication	Volume 2: 11.8 Communications and Operations Management	358	Bidders must ensure that Smart city data centers are well equipped with adequate security controls to protect the confidentiality, integrity and accessibility of critical data. The center should consider including cyber security systems such as firewalls, intrusion detection & intrusion prevention systems, Web Application Firewalls, Behavioral analysis systems for anomaly detection, Correlation engine, Denial of Service prevention device, Advanced Persistent Threat notification mechanism, Federated identity, access management system etc.	Please include Bill of Material with the total count of user licences for Federated identity Management	Any additional item required to fulfil the functional specification requirements as per tender, has to be considered by the bidder in his estimate and shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2398	L&T Smart World & Communication	RFP System Integrator Vol.02	190	Next generation platform should encompass log, packet and end point data with added context and threat Intelligence. Should provide complete network visibility through deep packet inspection high speed packet capture and analysis.	Please clarify on the packet capture rate requirements. And number of segments in the network.	Tender conditions shall prevail
Vol.2	2399	L&T Smart World & Communication	Volume 2: 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	Page 116 of 400	Global Market Presence & Support System 74. Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	As per MoUD letter(Point 3 & 4), foreign certifications and restrictive clauses such as Gartner and Navigant listing for OEMs for Pre-Qualification are not valid and shall not provide level playing ground for all OEMs. Post this guidelines by MoUD none of the RFP's have come up with this clause and this clause restricts open competition. Hence authority is requested to delete this clause.	This clause is deleted

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Vol.2	2400	L&T Smart World & Communication	Volume 2: 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	Page 124 of 400	<p>Unified Communication Platform for Smart ICC Operation 158. The proposed Communication Platform should streamline communications and enhances productivity with integrated presence, Chat, voice and video, desktop sharing, UHF/ VHF communication and conferencing capabilities. The System must be capable of calling between operator, UHF/ VHF, VoIP and PSTN or mobile network. The system should have capabilities of achieving collaboration between any users of control room. the system should have capabilities enabling HD Video meetings between Smart City Team and other departments like Fire, Ambulance, Police, Traffic, etc.</p> <p>IP-based dispatch console: 183. The dispatch console shall be a Microsoft Windows program with Windows 10 support. 184. The Dispatch Console shall provide control of radio resources through an on-screen interface 185. The dispatch software shall run on a standard PC platform, and extend existing push-to-talk (PTT) radio channels so that users with a variety of communication devices can participate in incident communication 186. It shall enable users to monitor and coordinate emergency response across incompatible radio systems and between multiple departments and agencies.</p>	<p>We would like to inform that the Unified Communication System is a must in the Smart City Command Centre, it needs to be considered as an independent solution and not part of the ICC Platform Specifications. A separate BOQ Line Item needs to be introduced for this solution.</p> <p>This Platform is available as a COTS Product from multiple reputed vendors (Motorola, Avaya, etc) hence it requires a separate Dispatch Console that allows the integration of multiple stake holders on IP Phone, UHF/ VHF, Mobile network or PSTN into a conference.</p> <p>This is most often used by Distaster Management Agencies & Emergency Services Agencies with the option to integrate multiple OEM Solutions.</p> <p>Currently by placing it under the ICC Specifications, it will limit the participation of the ICC & UC Platform OEM's and will favor only a specific OEM.</p>	This tool / platform can be internal or external to ICC. However, If external, ICC should support seamless integration with third party tool / platform.
Vol.2	2401	L&T Smart World & Communication	Volume 2, 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	122-124/400	<p>Unified Communication Platform for Smart ICC Operation; Dispatch System for Command and Control Operations IP-based dispatch console</p>	<p>We understand that the requirements mentioned under these sections pertain to integration of ICC Application with the necessary sub-system elements (Hardware & Software) i.e. Unified communication system, Dispatch system and IP based dispatch console etc which is to be considered separately, hence request to remove these clause from ICC and add this section separately</p>	This tool / platform can be internal or external to ICC. However, If external, ICC should support seamless integration with third party tool / platform.
Vol.2	2402	L&T Smart World & Communication	Volume 2, 5.2.2 Technical Specification – ICC 5.2.2.1 Integrated Command Control Platform	Page 125 of 400 & Page 126 of 400	<p>Deployment Automation, Workload Automation Tool, Application Performance Monitoring</p>	<p>We understand that the requirements mentioned under Workload Automation Tool, Application Performance Monitoring and Deployment Automation is not specific to ICC Application, hence request to remove this from ICC scope and add this section separately</p>	These tools / platforms can be internal or external to ICC. However, If external, ICC should support seamless integration with third party tools/ platforms.
Vol.1	2403	Wipro (set-2)	Vol 1 Section III	93/104	<p>Annexure 6 - Consortium Agreement-The Parties shall be jointly and severally responsible and bound towards the Authority for the performance of the works in accordance with the terms and conditions of the BID document, and Contract.</p>	<p>Annexure 6 - Consortium Agreement-The Lead Bidder shall be solely and severally responsible and bound towards the Authority for the performance of the works in accordance with the terms and conditions of the BID document, and Contract. Consortium member should be liable with respect to their scope of work only.</p>	Tender conditions shall prevail.
Vol.3	2404	Wipro (set-2)	Vol 3 Consortium	.8/50	<p>Constitution of Consortium- Lead Bidder along with all consortium members shall be jointly and solely responsible for the project execution</p>	<p>Constitution of Consortium- Lead Bidder shall be solely and severally responsible for the project execution</p>	Tender condition shall prevail
Vol.3	2405	Wipro (set-2)	Vol 3 Key Performance Measurements	.6/50	<p>The Authority reserves the right to amend any of the terms and conditions in relation to the Contract / Service Specifications and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfilment of the Schedule of Requirements.</p>	<p>The Authority with mutual consent reserves the right to amend any of the terms and conditions in relation to the Contract / Service Specifications and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfilment of the Schedule of Requirements.</p>	Tender conditions shall prevail

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Vol.3	2406	Wipro (set-2)	Vol 3 10.6-Bidder's Obligations	.9/50	SI shall ensure that none of the Key Personnel (refer Section 3.6.2 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	Except in case of job termination, resignation, medical reason or project transfer , SI shall ensure that none of the Key Personnel (refer Section 3.6.2 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	Refer SI 3.15 Addendum-1
Vol.3	2407	Wipro (set-2)	Vol 3 43.6.1	33/50	Within 15 days of Issuance of LOI or Contract Agreement, whichever is earliest	Within 15 days of Issuance of Contract Agreement.	Refer SI 3.17 of Addendum-1
Vol.3	2408	Wipro (set-2)	Vol 3 9.4	.8/50	The Authority reserves the right to review, approve and require amendment of the terms of the Consortium Contract or any contract or agreements entered into by and between the members of such Consortium and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Authority. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted to the Authority.	The Authority with mutual consent reserves the right to review, approve and require amendment of the terms of the Consortium Contract or any contract or agreements entered into by and between the members of such Consortium and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Authority. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted to the Authority.	Tender condition shall prevail
Vol.3	2409	Wipro (set-2)	Vol 3 42	.32/50	Authority shall have the right to take appropriate penalizing actions, or termination of the contract.	Authority shall have the right to take appropriate penalizing actions , or termination of the contract.	Tender condition shall prevail
Vol.3	2410	Wipro (set-2)	Vol 3 43.3	.32/50	Maximum Penalty applicable for any quarter shall not exceed 30% of the 'applicable fees' for the respective quarter.	Maximum Penalty applicable for any quarter shall not exceed 3% of the 'applicable fees' for the respective quarter.	Tender condition shall prevail
Vol.3	2411	Wipro (set-2)	Vol 3 43.4	.32/50	Three consecutive quarterly deductions of 30 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Three consecutive quarterly deductions of 3 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Tender condition shall prevail
Vol.3	2412	Wipro (set-2)	Vol 3 43.4	.32/50	Three consecutive quarterly deductions of 30 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Three consecutive quarterly deductions of 3 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Refer SI 3.16 of Addendum-1
Vol.3	2413	Wipro (set-2)	Vol 3 29.1	.24/50	Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or willful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out the Services, SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority; 29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services. (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher.	Limitation of Bidder's Liability towards the Authority: 29.1. SI shall not be held liable Except in case of gross negligence or willful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out the Services, with respect to damage caused by SI to Authority's tangible property, shall not be liable to Authority: (i) for any speculative, indirect or consequential loss or damage; and (ii) for any direct loss or damage caused by the SI the limitation of liability under the contract shall not exceed (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds Lead Bidder may be entitled to receive Limitation of Bidder's Liability towards the Authority: Such Liability caused by the SI the limitation of liability under the contract shall not exceed the fees (excluding reimbursements) received by it under this contract during the six months preceding the date of first claim.	Refer SI no 3.01, Addendum-01
Vol.3	2414	Wipro (set-2)	Vol 3 36	.28/50	The Authority may, terminate this Contract in whole or in part by giving SI a prior and written notice indicating its intention to terminate the Contract.	As per RFP SL should be given 60 days written notice to cure the default failing which may attract termination. In the event of termination , SL shall be paid for the Services rendered or work in progress.	Tender condition shall prevail
Vol.1	2415	Wipro (set-2)	Vol 1 3.5	.37/104	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs) Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date	Please allow last 10 years project as well. The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs) Smart City and other Government establishment in India during last Ten (10) years as on Bid Submission date	Tender conditions shall prevail.

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Vol.1	2416	Wipro (set-2)	Vol 1 3.5	.37/104	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	Please allow last 10 years project as well. The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Ten 10 years as on Bid Submission date.	Tender conditions shall prevail.
Vol.1	2417	Wipro (set-2)	Vol 1 3.5	.39/104	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City /Campur/Aiport surveillance minimum value of INR 10 Crores during last seven years (as on Bid Submission date) per project.	Tender conditions shall prevail.
Vol.1	2418	Wipro (set-2)	Vol 1 3.6.1	.39/104	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Ten (10) years (as on Bid Submission date)	Tender conditions shall prevail.
Vol.1	2419	Wipro (set-2)	Vol 1 3.5	.36/104	Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract)	Incase of NDA, certificate from Chartered Accountant stating the tender requirements shall be qualified. Please confirm	Bidder to Refer Point 1.04 of Amendment 01
Vol.1	2420	Wipro (set-2)	Vol 1 3.5	.35/104	3. The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India	3. The Sole Bidder or any consortium member (in case of consortium) should have successfully executed projects in last 10 years with minimum 1000 cumulative numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India/Abroad	Refer to AddendumVI
Vol.1	2421	RPG Smart Infra (KEC International Limited)	Vol 1, Section 3.5 PQ1	33	The Sole Bidder or Lead Bidder (in case of consortium) should be: - An Indian firm. - Registered under the Companies Act 1956/ 2013 - In operation in India for a period of at least 5 years as on date of bid submission. Consortium members: -Maximum three (3) companies are allowed in a consortium including Lead Bidder. - An Indian firm. - All members should be registered under the Companies Act 1956/ 2013 - In operation in India for a period of at least 3 years as on date of bid submission.	The scope of this project is very vast, complex and very niche in nature, hence it s very difficult to deliver the entire project scope by 2 consortium partners only. Hence we request you to kindly allow Maximum Four (4) companies in a consortium including Lead Bidder.	Refer to AddendumVI
Vol.1	2422	RPG Smart Infra (KEC International Limited)	Vol 1, Section 3.5 PQ3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India	In various other smart city projects this criteria has been very relaxed, For Various other criterias the time period sought is 7 years however here it is 3 years. This criteria seems to be very bidder specific and hence request you to kindly relax it as below : The Sole Bidder or any consortium member (in case of consortium) should have successfully executed projects in last 3 years with minimum cumulative 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2423	RPG Smart Infra (KEC International Limited)	Vol 1, 3.6.1 Technical Criteria B2	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below:	Request you to kindly update the clause as below : The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below:	Refer to Addendum 7 (Sl. No. 21)
Vol.1	2424	RPG Smart Infra (KEC International Limited)	Vol 1, 3.6.1 Technical Criteria B4.2	42	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	This criteria is ambiguous in nature. As a normal assessment process, similar to other TQ criteria of this RFP, the number of projects/credentials needs to be specified along with their corresponding marks.	Refer to AddendumVI
Vol.1	2425	RPG Smart Infra (KEC International Limited)	Vol 1, 3.6.1 Technical Criteria B5	42	No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis	This criteria is ambiguous in nature. As a normal assessment process, similar to other TQ criteria of this RFP, the number of projects/credentials needs to be specified along with their corresponding marks. The time period sought is 3 years which is very OEM specific; hence request you to kindly relax it as below : No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 7 (seven) years as on date of submission of bid.	Refer to AddendumVI
Vol.2	2426	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3.1 Dome CCTV Cameras	Page 71 of 400	4 Shutter Time 1/5 sec. to 1/25,000 sec. or better	Please consider shutter speed 1/1 sec. to 1/10,000 sec as same as bullet camera. Mentioned shutter speed in bullet camera is practically sufficient for Indoor dome camera application	Shutter Time 1/1 sec. to 1/10,000 sec. or better
Vol.2	2427	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3.2 Fixed Bullet CCTV Cameras	Page 76 of 400	24 SD CARD Built in SD card slot with support up to 128 GB with Class 10 speed. Camera should have pre-installed SD card of 128 GB. The camera should have the facility to store the data on local SD card inside the camera in case of network connection loss and the stored data on SD card should be automatically sent to the storage when network reconnects.	Request to consider 1TB SD Card Support. In future if any demands increase in inbuilt storage of camera. As smart cities are long term project. Camera should have provision for expandability.	23 SD CARD Built in SD card slot with support min 512 GB recording at Class 10 speed. Camera should have pre-installed SD card of 128 GB. The camera should have the facility to store the data on local SD card inside the camera in case of network connection loss and the stored data on SD card should be automatically sent to the storage when network reconnects.
Vol.2	2428	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3.3 PTZ CCTV Cameras	Page 78 of 400	17 Tilt: Up to 300°/s	Request to consider tilt speed 120 deg same as Pan Speed in the tender. Ideally Tilt speed is less than Pan Speed	Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	2429	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3.3 PTZ CCTV Cameras	Page 78 of 400	20 Pre-set / Tour 256 pre-set positions, Minimum 8 Tour	Request to consider 4 tours with recorded tours and pre position ours	Pre-set / Tour : 256 pre-set positions, Minimum 4 Tour
Vol.2	2430	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3.3 PTZ CCTV Cameras	Page 80 of 400	27 Alarm I/O Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interfac	Request to consider Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface. As 2 input and 1 output is sufficient for city surveillance applications	Alarm I/O Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface

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Vol.2	2431	RPG Smart Infra (KEC International Limited)	Vol 2 5.4.2.6 ANPR HW Requirements	Page 244 of 400	4 shutter time PAL: 1/20~ 1/30,000 sec.	Request to consider fixed shutter 1/25 to 1/15000s and Automatic electronic shutter.	Request smart city to consider fixed shutter 1/25 to 1/15000s and Automatic electronic shutter for both ANPR & RLVD Camera
Vol.2	2432	RPG Smart Infra (KEC International Limited)	Vol 2 5.4.2.6 ANPR HW Requirements	Page 245 of 400	13 S/N Ratio >60db	Request to accept S/N ratio 55dB	Clause to be read as S/N Ratio >55db for both ANPR & RLVD Camera
Vol.2	2433	RPG Smart Infra (KEC International Limited)	Vol 2 5.4.2.6 ANPR HW Requirements	Page 245 of 400	WDR Upto 140db	Request to consider WDR upto 120 db as per IE62676-Part 5 standard	Clause to be read as WDR >= 120 Db for both ANPR & RLVD Camera
Vol.2	2434	RPG Smart Infra (KEC International Limited)	Vol 2 5.4.2.6 ANPR HW Requirements	Page 246 of 400	IR Illuminator 850nm intensity adjustable IR with minimum 30 meters range, IR from same Camera OEM	Kindly remove this clause as 30 meter inbuilt IR is not suitable for ANPR Camera and already external IR Specs is given in the tender	Kindly refer External Illuminator specs 5.4.2.7 IR – Illuminator (In case of Separate IR)
Vol.2	2435	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3 Technical Specifications – CCTV Surveillance System	Page 71 of 400	IR Illuminator 850nm intensity adjustable IR with minimum 30 meters range, IR from same Camera OEM	Request to add OEM Criteria, OEM should be in list of top 10 as Per IHS Last 3 year Reports.	Tender conditions shall prevail
Vol.2	2436	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3 Technical Specifications – CCTV Surveillance System	Page 71 of 400	IR Illuminator 850nm intensity adjustable IR with minimum 30 meters range, IR from same Camera OEM	Request to add security features in all the cameras :- Onboard Trusted Platform Module, Public key infrastructure, AES 256 bit encryption which will help to reduce malicious attacks in the camera	Tender conditions shall prevail
Vol.2	2437	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3 Technical Specifications – CCTV Surveillance System	Page 71 of 400	IR Illuminator 850nm intensity adjustable IR with minimum 30 meters range, IR from same Camera OEM	Request to add software sealing feature, any changes in the camera configuration once configured will break the seal and alert the user that someone has changed the settings	Tender conditions shall prevail
Vol.2	2438	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.4 Video Management System (VMS)	Page 91 of 400	3. The import/export tool shall be as sophisticated as necessary to support the following: a. Log every action so an audit or report can be completed	Request to amend the clause for client action 3. The import/export tool shall be as sophisticated as necessary to support the following: a. Log every action of operator at client end so an audit or report can be completed though	3. The import/export tool shall be as sophisticated as necessary to support the following: a. Log every action of operator at client end so an audit or report can be completed.
Vol.2	2439	RPG Smart Infra (KEC International Limited)	Vol 2 5.1.3 Technical Specifications – CCTV Surveillance System		Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	Request to amend this clause, as this clause related to raw material of product, this shall be certified by OEM on letter head and Request to keep as minimum 10 years life of Product	Clause to be Read as Camera should have MTBF(Life of Camera) of minimum 7 years . OEM To submit the Test Report duly Signed with MTBF Values certified by Third Party electronic Reliability Prediction Software
Vol.2	2440	RPG Smart Infra (KEC International Limited)	11.10 Business continuity planning & Disaster recovery	359	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure	Please provide the Disaster recovery details, like hosting location (On premise or On Cloud), SOW of the bidder at DR location etc..	Clause is deleted
Vol.2	2441	RPG Smart Infra (KEC International Limited)	11.10 Business continuity planning & Disaster recovery	359	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure	Please confirm the approach towards DR capacity, 50% or 100% ?	Clause is deleted

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Vol.2	2442	RPG Smart Infra (KEC International Limited)	3.1 Data center (D	159	The DC will be co-located in the State Data Centre Building. Rack Space & Power will be provided by SDC.	Since the bidder is allowed to colocate the Smart City Infrastructure in the existing State Data Center, request authorities to confirm if all the basic amenities will be provided by SDC; like sufficient cooling & power, UPS, physical & logical security etc..	Data Centre is to be co-located at SDC, all NON-IT & Power backup shall be provided by SDC/GSCL in complete where SI will bring only Active components like Servers/ Switches/ Storage/ Firewall and Software etc.
Vol.1	2443	Fluentgrid Limited	2.29. Eligible Goods and Services, and OEM Criteria	28	The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	As per our understanding, the required 1000 sensors to meet the criteria can be from any IOT device. Kindly confirm if our understanding is correct.	Bidder's understanding is correct.
Vol.2	2444	Fluentgrid Limited	Integrated Command and Control Centre Solution (OEM Criteria)	42	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	As per our understanding, the proposed CCC solution should have been integrated with any application, the application which are not the part of this RFP will also be considered for evaluation? Kindly confirm if our understanding is correct. Also confirm in order to achieve maximum marks how many integration are required.	Yes, your understanding is correct.
Vol.2	2445	Fluentgrid Limited	5.2.2.1 Integrated Command Control Platform	117	Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	As per our understanding if the platform OEM is the member of smart cities council India, then it will be accepted. Kindly confirm if our understanding is correct.	This clause is deleted
Vol.2	2446	Fluentgrid Limited	4.18 Geographical Information System (GIS) platform	40	SI shall provide GIS system and integrate it with ICCC or other systems.	As per our understanding, Bidder can propose Open source GIS which shall meet the requirement as per the RFP.	Tender conditions shall prevail
Vol.2	2447	Fluentgrid Limited	4.18 Geographical Information System (GIS) platform	40	SI shall provide GIS system and integrate it with ICCC or other systems.	GIS is missing from BOM, there is no line item pertaining to GIS scope. Request you to kindly include it.	Tender conditions shall prevail
Vol.2	2448	Fluentgrid Limited	4.5 Finalization of detailed technical architecture	17	The data centre infrastructure shall be capable of serving at least 1000 concurrent users.	Please confirm the total number of concurrent users/employees available to access the CCC application from the various departments.	Tender conditions shall prevail
Vol.2	2449	Fluentgrid Limited	4.5 Finalization of detailed technical architecture	17	The system should also support vertical and horizontal scalability so that depending on changing requirements from time to time, the system may be scaled upwards.	Please provide the tentative growth percentage (next 5 years) of concurrent users accessing the CCC application to plan/size the server & storage infrastructure for scalability requirements.	200 % Growth
Vol.2	2450	Fluentgrid Limited	11.10 Business continuity planning & Disaster recovery	359	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure	Please provide the Disaster recovery details, like hosting location (On premise or On Cloud), SOW of the bidder at DR location etc..	Clause is deleted
Vol.2	2451	Fluentgrid Limited	11.10 Business continuity planning & Disaster recovery	359	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure	Please confirm the approach towards DR capacity, 50% or 100% ?	Clause is deleted
Vol.2	2452	Fluentgrid Limited	5.3.1 Data center (DC)	159	The DC will be co-located in the State Data Centre Building. Rack Space & Power will be provided by SDC.	Since the bidder is allowed to colocate the Smart City Infrastructure in the existing State Data Center, request authorities to confirm if all the basic amenities will be provided by SDC; like sufficient cooling & power, UPS, physical & logical security etc..	Data Centre is to be co-located at SDC, all NON-IT & Power backup shall be provided by SDC/GSCL in complete where SI will bring only Active components like Servers/ Switches/ Storage/ Firewall and Software etc.
Vol.2	2453	Fluentgrid Limited	Security Controls for Cloud Services	360	Empanelment of Cloud Service Offerings CSPs (Cloud Service Provider) facilities/services shall be compliant with regulative directives and industry best practices	As per our understanding DC and DR both has to be co-located in the State Data Centre Building. Kindly explain the scope of cloud service provider in this RFP for temporary phase.	Deleted

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2454	ARS Traffic and Transport Technology	Volume:1 Section:1.4. Definitions/Acron yms	9 of 104	Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ division/ sub division/ branch business unit. For the purpose of technical evaluation, net worth and turnover of parent, associate or other related entity will not be considered.	The parent company credentials of consortium partners is not mentioned here. Recent similar tenders has allowed all bidders to use their parent company credentials. Requesting authority to allow the use of parent company credential for consortium partners also in order to increase the participation of competitive bidders. Change Request: Parent company existence of Bidder/ Lead bidder/ Consortium partner would be considered for only 100% subsidiary/ division/ sub division/ branch business unit. For the purpose of technical evaluation, net worth and turnover of parent, associate or other related entity will be considered.	Tender conditions shall prevail.
Vol.1	2455	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	e) OEM to give declaration that offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	Electronic equipment role over happens frequently and hence mandating this clause will allow majority of the OEMs to participate. Change Request:- e) OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for minimum of 5 years from the date of bidding.	Agreed. Bidder to Refer Point 1.2 of Amendment 01. "OEM to give declaration that offered product will not be end of life for minimum of 12 months from the date of bidding and the support for such offered product/s will be available for the period of 60 months from the date of Go-live."
Vol.1	2456	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	h) The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid.	Change Request: h) The OEM for VMS proposed by the Bidder must be operational in minimum 1 City Surveillance projects in India with at least 500 cameras in last 5 years as on date of submission of bid.	Tender conditions shall prevail.
Vol.1	2457	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	i) The ICCS Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years.	Change Request: i) The ICCS Solution proposed by the Bidder must be operational in minimum 1 City wide projects in India with at least 500 cameras/sensors in last 5 years.	Tender conditions shall prevail.
Vol.1	2458	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	l) Each of the proposed OEMs should either have existing capability and infrastructure to provide 24x7x365 technical support in India or should provide an undertaking that they would establish the requisite infrastructure and capability to provide 24x7x365 technical support, on emerging a winner in this bidding process.	Change Request: l) Each of the proposed OEMs/ SI (System Integrator) with help of OEM should either have existing capability and infrastructure to provide 24x7x365 technical support in India or should provide an undertaking that they would establish the requisite infrastructure and capability to provide 24x7x365 technical support, on emerging a winner in this bidding process.	Tender conditions shall prevail.
Vol.1	2459	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	m) All hardware items should to be quoted with 5 years warranty from OEM and onsite support and services.	Change Request: m) All hardware items should to be quoted with 5 years warranty or AMC till 5th year post default warranty period from OEM and onsite support and services.	Tender conditions shall prevail.
Vol.1	2460	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	n) All software/subscription/licenses should be quoted with 5 years warranty, updates, upgrades (wherever applicable), support and services from OEM.	Change Requesting) All software/subscription/licenses should be quoted with 5 or AMC till 5th year post default warranty period, updates, upgrades (wherever applicable), support and services from OEM.	Tender conditions shall prevail.
Vol.1	2461	ARS Traffic and Transport Technology	Volume:1 Section:2.29. Eligible Goods and Services, and OEM Criteria	28 of 104	o) OEM of all active IT components should have online portal to raise tickets for support and services. p) Product serial numbers of all IT active components should be available in the OEM's online portal for ease of call log, maintenance and support. q) OEM should have end user web interface to log case with product serial number.	Our Kind request to GSCL to remove these clauses because online direct support may not be available from many OEM which may decrease in participation of many potential OEMs.	Tender condition shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2462	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria	34 of 104	A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. o Each consortium member should have minimum 30% of the Average Annual Turnover requirement	Requesting GSCL to relax the annual turnover requirement of consortium members to increase wide participation. Change Request: o Each consortium member should have minimum 10% of the Average Annual Turnover requirement	Refer to AddendumVI
Vol.1	2463	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria	34 of 104	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. .	Change Request: B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement.	Refer to AddendumVI
Vol.1	2464	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria	35 of 104	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralized Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	Kindly relax the requirement for a wide participation, since the other Pre-Qualification Criteria has allowed projects implemented in last 7 years already. Please accept global projects, which will demonstrate the bidder's vast expertise in the traffic management domain. Kind request to GSCL to amend the clause as below: Change Request: The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 7 years with minimum 500 numbers of IP CCTV Cameras for outdoor surveillance with centralized Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India/globally.	Refer to AddendumVI
Vol.1	2465	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria	35 of 104	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date	Please accept global projects, which will demonstrate the bidder's vast expertise in the traffic management domain. Change Request: The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Data centre built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India/globally during last Seven (7) years as on Bid Submission date	Tender conditions shall prevail.
Vol.1	2466	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria	36 of 104	<input type="checkbox"/> In case sole bidder/ lead bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility.	<input type="checkbox"/> In case sole bidder/ lead bidder/consortium partner is a wholly owned subsidiary, the experience and financials of parent company would be considered for eligibility.	Tender conditions shall prevail.
Vol.1	2467	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria	36 of 104	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	Please accept global projects, which will demonstrate the bidder's vast expertise in the traffic management domain. Change request: The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India/globally during last Seven (7) years as on Bid Submission date.	Tender conditions shall prevail.
Vol.1	2468	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria- Note.	37 of 104	3. For International project if the original client certificate and other documents are in language other than English than a translated copy duly confirmed by Indian embassy/ One of the board of directors of the lead bidder/ consortium member shall be submitted along with bid document.	As the criteria requested in clause requires lot of external work with Ministry of External Affairs thus results in time consumption which may delay in bid submission for many bidders. Requesting to amend the clause as below: Change request: 3. For International project if the original client certificate and other documents are in language other than English should be translated in English / One of the board of directors of the lead bidder/ consortium member shall be submitted along with bid document.	Tender conditions shall prevail.
Vol.1	2469	ARS Traffic and Transport Technology	Volume:1 Section:3.5. Pre-Qualification Criteria- Note.	37 of 104	Bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or Sister Concern only.	Please amend the clause as below: Change request: Bidders are allowed to submit experience in terms of technical qualification and financials of their holding (parent) company or subsidiary company or Sister Concern only.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2470	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	39 of 104	A2. Manpower - Full time employee (FTE) on payroll of Sole bidder or Lead bidder (in case of consortium) working in the business unit providing "specific business areas" as mentioned in the above criteria as on date of release of RFP : Number of FTE Marks > 500 FTE 4 > 400 FTE to <=500 FTE 3 > 300 FTE to <=400 FTE 2 = 300 FTE 1	Change Request: Please relax the marking criteria as below. Number of FTE Marks > 250 FTE 4 > 200 FTE to <=250 FTE 3 > 150 FTE to <=100 FTE 2 = <100 FTE 1	Refer to AddendumVI
Vol.1	2471	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	40 of 104	B2. Integrated Traffic Management System- The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: • Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND • RLVD System / ANPR System	Change Request: The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: • Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System /RLVD System / ANPR System.	Refer to Addendum 7 (Sl. No. 21)
Vol.1	2472	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	41 of 104	B4. 1. The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	Change Request: The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India/globally of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	Refer to AddendumVI
Vol.1	2473	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	42 of 104	B4. 2 Integrated Command and Control Centre Solution (OEM Criteria)- No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Change Request:- No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India/globally where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 7 years as on date of submission of bid. 2 Projects = 5 marks 1 project = 3 marks	Refer to AddendumVI
Vol.1	2474	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	42 of 104	Copy of Completion Certificates from Client mentioning name of CCC Software.	Client certificates generally doesn't mention the name of CCC software. Please allow bidder to submit completion certificate that mentions the successful implementation of CCC.	Bidder to Refer Point 1.09 of Amendment 01
Vol.1	2475	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	42 of 104	B5. VMS (OEM Criteria)- No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	Change Request:- No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India/globally where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 500 IP CCTV Cameras in last 7 years as on date of submission of bid. A project with 500 cameras = 5 marks A project with 300 cameras = 3 marks	Refer to AddendumVI
Vol.1	2476	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	42 of 104	Copy of Completion Certificates from Client mentioning name of VMS Software.	Client certificates generally doesn't mention the name of VMS software. Please allow bidder to submit completion certificate that mentions the successful implementation of VMS for mentioned number of cameras.	Bidder to Refer Point 1.10 of Amendment 01

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Vol.1	2477	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	42 of 104	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Data Centre Project for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 10 Crores per projects during last Seven (7) years (as on Bid Submission date)	Change Request: The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Data Centre Project for any State/ Central Government Department or Central/ State PSUs/ Smart City in India/globally of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)	Refer to AddendumVI
Vol.1	2478	ARS Traffic and Transport Technology	Volume:1 Section:3.6.1 Technical Bid Criteria & Evaluation.	44 of 104	POC to be performed as per use case to be provided by GSCL/ GSCL nominated agency	No specific timelines specified in RFP regarding PoC is mentioned. Requesting GSCL to provide at least 3 weeks prior intimation for PoC in order to plan & procure for PoC.	Will be communicated to pre-qualified bidders.
Vol.1	2479	ARS Traffic and Transport Technology	Volume:1 Section:3.6.3 Key Personnel Criteria	46 of 104	Network & Security Infrastructure Expert a. Education: M.Tech/ B.Tech/ B.E from a reputed institute b. Experience: Minimum 10 years of IT experience c. Should have experience in designing & implementing network solutions for at least 3 similar projects.	Change Request:- a. Education: MCA/M.Tech/ B.Tech/ B.E from a reputed institute b. Experience: Minimum 10 years of IT experience c. Should have experience in designing & implementing network solutions for at least 3 similar projects.	Refer to addendum VI
Vol.2	2480	ARS Traffic and Transport Technology	Volume:2 Section:4.26 Project Timelines	60 of 400	4.26 Project Timelines Tentative Lead- Time 12 months post issuance of request order	Considering the wide scope of work involved in this project, requesting GSCL to extend the timeline for implementation. Change Request:- 4.26 Project Timelines Tentative Lead- Time 16 months post issuance of request order.	Tender conditions shall prevail
Vol.2	2481	ARS Traffic and Transport Technology	Volume 2 Section 5.4.2.1	230 of 400	The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India.	For increased participation for competitive bidders, we request to relax this clause as below, since the requirement is very stringent. Change request: The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in India/Globally.	The ITMS OEM should have supplied and deployed proposed system for atleast 500 ANPR systems, 100 RLVD systems and 200 SVD systems in India
Vol.2	2482	ARS Traffic and Transport Technology	Volume:2 Section:12.7 Bill of Material (BOM) Summary	400 of 400	12.7 Bill of Material (BOM) Summary	The S.No. '8.0- Network Enablement Charges- Shifting' seem to be missing from BOM summary but specified in "BOQ.xls Schedule B". We hope it's a typo error. Please Clarify.	BOM given in RFP Vol.02 for SI give details of Make & Model only. Network Enablement Charges- Shifting' is a service charge which is included in Vol.04 BOQ for SI to quote.
Vol.3	2483	ARS Traffic and Transport Technology	Volume:3 Section:10. Bidders obligation	9 of 50	10.6 SI shall ensure that none of the Key Personnel (refer Section 3.6.2 of the RFP Volume 1 proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	Requesting GSCL to kindly relax the amount of penalty imposed as the manpower proposed can exit due various reasons including personal reasons of the employee. Change request:- In such cases of exit, a penalty of INR 50,000 per such replacement shall be imposed on SI.	Refer SI no 3.15, Addendum-01
Vol.2	2484	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 190 Pt. -2	Next generation platform should encompass log, packet and end point data with added context and threat intelligence. Should provide complete network visibility through deep packet inspection high speed packet capture and analysis.	Next generation platform should encompass Big data analyses, log investigation, Advanced data platform and real time correlation.	Tender conditions shall prevail
Vol.2	2485	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 190 Pt. -3	SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	SIEM and Log management must be from same OEM and must have single console	SIEM for Logs and deep packet inspection can be from same or different OEM.
Vol.2	2486	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 190 Pt. -4	The solution should be a physical appliance form factor with following components: a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Data Management	The solution should be a Software / physical / Virtual server based including a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Advanced Data Platform	The solution should be a physical appliance form factor with following components: a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Data Management/Platform
Vol.2	2487	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 190 Pt. -5	There should be no limitation on number of devices to be supported. Any addition in no. of devices should have no cost impact on department.	There should be no limitation on number of devices to be supported as well flow like Nflow , J flow . Any addition in no. of devices should have no cost impact on department.	Tender conditions shall prevail
Vol.2	2488	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 191 Pt. -6	The SIEM & Log Monitoring solution should be from a different OEM than the Prevention Security solutions like F/W, IPS, HIPS, AV, DLP, and Encryption.	The SIEM & Log Monitoring solution should be from a different OEM than solutions like F/W, IPS, HIPS, AV, DLP, GRC, Packet capture, NBAD, Token solutions	Tender conditions shall prevail

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Vol.2	2489	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 191 Pt. -8	Real time contextual information should be used at collection/ normalization layer and be available at correlation layer where any events are matched during correlation rule processing. In addition , solution must provide contextual Hub at investigation layer for all relevant contextual awareness data regarding alerts/incidents available for any information asset like IP/Device etc.	Real time contextual information should be used at collection/normalization layer and also be available at correlation layer where any events are matched during correlation rule processing.	Tender conditions shall prevail
Vol.2	2490	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 191 Pt. -10	A solution should support minimum 10,000 EPS and scalable up to 20,000 EPS.	A solution should support minimum 10,000 Sustained/20000 Peak EPS as three tired solution and scalable up to 30,000 EPS.	Tender conditions shall prevail
Vol.2	2491	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 191 Pt. -11	Correlation Engine appliance should be consolidated in a purpose build appliance and should handle 20,000 EPS.	Solution must be sized for 20000 Peak EPS on physical or Virtual enviroment	Solution must be sized for 20000 EPS on physical or Virtual environment
Vol.2	2492	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 191 Pt. -13	The solution should be storing both raw logs as well as normalized logs. The same should be made available for analysis and report ing. The proposed solution should be sized to provide both raw logs and normalized logs with minimum 20 TB of storage.	The solution should be storing both raw logs as well as normalized logs at Log management layer which must support minimum 36TB storage and should have its own dash-boards , reports and search engine.	Tender conditions shall prevail
Vol.2	2493	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -14	The monitoring should be cross device and cross vendor and be both out of the box and scalable to cover additional devices and applications as required	The monitoring should be cross device and cross vendor and be both out of the box and scalable to cover additional devices and applications as required. It must have agents for applications in case Application does not natively generate logs. It must not be limited to monitoring audit logs but agent must also monitor /block any attack on applications like SQL injection, XSS etc.	Tender conditions shall prevail
Vol.2	2494	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -16	Should be able to provide complete packet-by-packet details pertaining to one or more session of interest including Session replay, page reconst ruction, image views, artefact & raw packet and object extractions.	Should be able to provide complete Log-by-Log details pertaining Collected Logs	Clause deleted
Vol.2	2495	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -17	Should be able to filter the captured packets based on layer-2 to layer-7 header information.	Should be able to filter unwanted logs at collection layer as well as log management layer to ensure only meaningful logs for analysis	Clause deleted
Vol.2	2496	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -18	Should provide comprehensive deep packet inspection (DPI) to classify protocols & application.	Should provide comprehensive application security for web applications. Solution must come with application run time and dynamic testing tool , preferably from same OEM and should have dashboard in SIEM	Tender conditions shall prevail
Vol.2	2497	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -19	The proposed solution must be able to provide the complete platform to perform Network forensics solutions.	The proposed solution must be able to provide the complete platform for SOC integrating with all key components which may be from different OEM	The proposed solution must be able to provide the complete platform to perform Network forensics solutions or SOC integration with all key components which may be from different OEM.
Vol.2	2498	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -20	The solution must be able to detect malicious payload in network traffic • Detect and reconstruct files back to its original type	Request you to kindly Remove this clause	Clause deleted
Vol.2	2499	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -21	The solution must have the ability to capture network traffic and import PCAP files using the same infrastructure.	Request you to kindly Remove this clause	Clause deleted
Vol.2	2500	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	Volume # 2 Page No # 192 Pt. -22	Bidder should propose separate hardware for SIEM solution.	The solution should be with a clear separation of the collection module, logging module and co-relation module. Log collection module should be in HA at DC must be free of cost software for which hardware will be provided by customer either as VM or Physical	SIEM solution should be dedicated appliance based or software based. In case of software based solution Bidders should include separate dedicated hardware in their proposed SIEM solution meeting the warranty requirement. Details of which should be mentioned in the bill of material.
Vol.2	2501	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	N/A	General Query	As per RFP high availability is required. Will this scenario will be applicable to only DC or both DC and DR.	Only Data Center applicable in this RFP.

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Vol.2	2502	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.9 SIEM solution	N/A	General Query	What will be the Log retention period.	Log retention period should be 1 year
Vol.2	2503	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	Volume # 2 Page No # 201 Pt. -6	d) Should have minimum of 8x10/40 Gbe	OEM Specific, please rephrase to d) Should have minimum of 8x10 Gbe	Clause Amended Kindly read as, "6. Hardware Platform d) Should have minimum of 8x10 Gbe or 8x16Gb FC Host ports. e) Storage shall have minimum front-end support for 10 Gb and backend support for minimum 12 Gb."
Vol.2	2504	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	Volume # 2 Page No # 199 Pt. -5	f). Should be able to scale out without service interruption	Please rephrase "f). Should be able to scale up to max capacity mentioned in clause 4 (that is 10 TB) without any service disruption." because This specification seems to be favoring a particular OEM and hence should be changed.	Tender conditions shall prevail
Vol.2	2505	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	N/A	Suggestion	The proposed dual-controller storage should have Symmetric Active-Active Controllers to ensure that each LUN can be accessed by any controller.	Tender conditions shall prevail
Vol.2	2506	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	N/A	Suggestion	The proposed storage should have 1 TB Global Cache (on-board DRAM) without any single point of failure. SSD shall not be considered as Cache.	Tender conditions shall prevail
Vol.2	2507	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	N/A	Suggestion	The proposed storage should have Controller level data-at-rest encryption to ensure the security of the data.	Tender conditions shall prevail
Vol.2	2508	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	Volume # 2 Page No # 188 Pt. -2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K SSL TPS (ECDSA) and should support 64 million concurrent connection from day 1	Tender conditions shall prevail
Vol.2	2509	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	Volume # 2 Page No # 189 Pt. -9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Please rephrase to " System must support dedicated configuration file for each Virtual context" because Every OEM architecture is different and it takes resources as per design and hardware architecture, defined resource like CPU, memory is restricting other OEM from participating in tender.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.
Vol.2	2510	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	N/A	Suggestion	System must support 32 Application delivery partition/Virtual Context	Tender conditions shall prevail
Vol.2	2511	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	N/A	Suggestion	System must be able to modify the resource allocation on the fly without restarting/rebooting any context	Tender conditions shall prevail
Vol.2	2512	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	N/A	Suggestion	All the virtual context must be available from day-1	Tender conditions shall prevail
Vol.2	2513	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	N/A	Suggestion	Security/IPSEC VPN	Tender conditions shall prevail

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Vol.2	2514	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	N/A	Suggestion	System must have inbuilt IPSEC VPN	Tender conditions shall prevail
Vol.2	2515	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.8 Load Balancer with Web Application Firewall	N/A	Suggestion	System must support both IKE v1 & V2 version	Tender conditions shall prevail
Vol.2	2516	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	Volume # 2 Page No # 85 Pt. -10	c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1.	There are Layer 3 protocols, Its not needed at edge level	Clause Deleted - (c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1.)
Vol.2	2517	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	Volume # 2 Page No # 86 Pt. -12	IP Security (IPsec)/Secure Sockets Layer (SSL).	Please remove as it is OEM specific	Tender conditions shall prevail
Vol.2	2518	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	Volume # 2 Page No # 83 Pt. -12	IP Security (IPsec)/Secure Sockets Layer (SSL).	Please remove as it is OEM specific	Tender conditions shall prevail
Vol.2	2519	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	Volume # 2 Page No # 84 Pt. -19	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	Is there a requirement of redundant power supply?	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	2520	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 165 Pt. -2	Active switching throughput should be minimum I) Spine Switch - 6.4 Tbps ii) Leaf (ToR) Switch – 1.44 Tbps	We recommended 2.16 Tbps throughput for Leaf switch, request you to please change to 2.16 Tbps	Tender conditions shall prevail
Vol.2	2521	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 166 Pt. -3.2	Leaf Switch – i) 24x 1000BaseT Ports ii) 24 x 10GbE SFP+ Fiber ports. Populated with 24 numbers of 10 Gig SFP+ transceivers (multimode) iii) 2x40GbE QSFP+ ports for uplink connectivity to each Spine Switches. iv) additional 4x40GbE QSFP+ ports for future scalability.	OEM specific, request you to please change it to 6X40 GbE from Day 1	Tender conditions shall prevail
Vol.2	2522	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 166 Pt. -6	Should have 32MB buffer.	Recommend 16GB RAM for Spine and 8 GB for leaf switch with 16GB flash on both switch for buffer	Tender conditions shall prevail
Vol.2	2523	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 166 Pt. -11	Support for 200,000 or more MAC addresses	OEM specific, request you to please change it to 100K	Support for 100,000 or more MAC addresses
Vol.2	2524	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 167 Pt. -18	Should support DHCP	We recommend to add L3VPN and NVGRE for DHCP, please rephrase to "Should Support DHCP L3VPN and NVGRE"	"Should Support DHCP L3VPN"
Vol.2	2525	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 168 Pt. -46	The OEM should have service Center in Eastern part of India.	OEM or OEM authorize Partner	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	2526	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.2 Data Center Spine & Leaf Switching Solution	Volume # 2 Page No # 168 Pt. -47	The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares.	OEM or OEM authorize Partner	The OEM or OEM authorized Partner should have service Center in Eastern part of India.

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Vol.2	2527	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Volume # 2 Page No # 302 Pt. -3	32k or more	We recommend 16K MAC address Also please refer Clause no. 7 is it mismatch	3. MAC - 16K or more MAC Addresses
Vol.2	2528	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Volume # 2 Page No # 302 Pt. -7	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	We recommend 16K MAC address request you to please consider	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	2529	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Volume # 2 Page No # 303 Pt. -8	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	Normal switches have 0 to 45 Degree and supports 5% to 96% Humidity, Request you to please rephrase to " 0 degree to 45 degree, shall support 5% to 95% noncondensing humidity conditions	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	2530	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Volume # 2 Page No # 303 Pt. -9	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	OEM Specific, please rephrase "Switch should support minimum of 128 IPv4 routes and 256 IPv6 routes	Tender conditions shall prevail
Vol.2	2531	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Volume # 2 Page No # 303 Pt. -18	Support upto 4K VLANs with jumbo frame handling capability of 13K packet size	OEM specific, request to change from 13K to 9K Jumbo frame	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet Size or better
Vol.2	2532	iValue InfoSolutions Pvt. Ltd. (Set 2)	4.22. 8.a) Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICC	Volume # 2 Page No # 50 Pt. -50	Servers (inclusive of OS) - Application Servers, Database Server, Video Recording Server, Video Management Server, Enterprise Backup Server, Domain Controller, Failover Servers for application and Recording Servers	Scheduled unattended backup using policy-based management for all Server and OS platforms The software should support on-line backup and restore of various applications and Databases The backup software should be capable of having multiple back-up sessions simultaneously The backup software should support different types of backup such as Full back up, Incremental back up, Differential back up, Selective back up, Point in Time back up and Progressive Incremental back up and snapshots The backup software should support different types of user interface such as GUI, Web-based interface Data Backup is a very critical part of the software for such prestigious project. Functional requirements needs to be incorporated in the RFP. Also confirm the capacity of data to be backed up for proposing quantity of backup software. Below outcomes are expected from any Backup Software.	Tender conditions shall prevail
Vol.2	2533	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.12 Hyper Converged Infrastructure (HCI)	Volume # 2 Page No # 202 Pt. -2.2	a). The solution should have minimum adequate number of nodes with each node having latest generation Dual Intel Xeon Scalable 2.2 GHz 24 cores processors. Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules. b). HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives. c). The solution should be offered with redundancy of Compute, Hard disk and Connectivity.	Change To: a). The solution should have minimum adequate number of nodes with each node having latest generation Dual Intel Xeon 2.4 GHz 24 cores processors . Each HCI Node shall provide 768GB Memory with 64 GB DIMM modules. Reason: This specification seems to be favoring a particular OEM. Request you to please change this to Intel Xeon 2.4 GHz 24 cores processors or higher. Change To: b). HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable NVMe drives. Reason: NVMe Drives are the latest in the industry with a very high performance as compared to SSD which is an older technology.	Tender conditions shall prevail

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Vol.2	2534	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.12 Hyper Converged Infrastructure (HCI)	Volume # 2 Page No # 203 Pt. -6.1	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V & VMware.	Change To: The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Reason: This specification (multi-hypervisor support) favours a particular OEM and hence must be changed/ removed.. Also it contradicts with the specification 6.2 which says that virtualization layer should be a dependent on general purpose OS for reliability and security (which Hyper-V does)	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware or RedHat or KVM or AHV or Xen
Vol.2	2535	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.12 Hyper Converged Infrastructure (HCI)	Volume # 2 Page No # 204 Pt. -6.7	The solution shall support provisioning across multihypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	Change To: This point must be removed. Reason: This specification (multi-hypervisor support) favours a particular OEM and hence must be changed/ removed.. Also it contradicts with the specification 6.2 which says that virtualization layer should be a dependent on general purpose OS for reliability and security (which Hyper-V does)	The solution shall support provisioning hypervisor (e.g.: VMware or Microsoft Hyper-V or System Center or Red hat or KVM or AHV or Xen) virtual and public cloud environments
Vol.2	2536	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.12 Hyper Converged Infrastructure (HCI)	Volume # 2 Page No # 204 Pt. -6.8	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs. Shall have the capability to install on multiple Hypervisor's like VMware & Hyper-V.	Change To: The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs. Reason: This specification (multi-hypervisor support) favours a particular OEM and hence must be changed/ removed.. Also it contradicts with the specification 6.2 which says that virtualization layer should be a dependent on general purpose OS for reliability and security (which Hyper-V does)	The solution should model what-if scenarios based on the real-time environment to accurately forecast capacity needs
Vol.2	2537	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	Volume # 2 Page No # 199 Pt. -5	f). Should be able to scale out without service interruption	Change To: Should be able to scale up to max capacity mentioned in clause 4 (that is 10 TB) without any service disruption. Reason: This specification seems to be favoring a particular OEM and hence should be changed. Also this will ensure that bidders don't propose any multicontroller midrange system instead of Enterprise Grade Storage.	Tender conditions shall prevail
Vol.2	2538	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	N/A	Suggestion	Suggestion: The proposed dual-controller storage should have Symmetric Active-Active Controllers to ensure that each LUN can be accessed by any controller. Reason: Symmetric Active-Active controller is a very critical feature of any Enterprise Grade Storage system which differentiates it from a mid-range storage system. A mid range storage system does not have symmetric active-active controllers but has scale out multi controller architecture where different controllers can access different set of LUNs. To ensure that every vendor quotes for an Enterprise Grade Storage system and not any mid-range storage, request you to please change the clause as requested.	Tender conditions shall prevail
Vol.2	2539	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	N/A	Suggestion	Suggestion: The proposed storage should have 1 TB Global Cache (on-board DRAM) without any single point of failure. SSD shall not be considered as Cache. Reason: In mid range storage systems there are multiple controllers with individual cache memory and the controller in the storage system does not have access to the complete cache configured in the storage system (1 TB in this case) hence to avoid people quoting mid-range storage system instead of an Enterprise Grade Storage system, request you to please change the clause as requested to Global Cache. Also SSD Drives can never deliver the performance of actual DRAM Cache, Hence it is advised to change the Cache to On-board DRAM Cache specifically.	Tender conditions shall prevail
Vol.2	2540	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.3.11 Storage Specifications	N/A	Suggestion	Suggestion: The proposed storage should have Controller level data-at-rest encryption to ensure the security of the data. Reason: The encryption feature should be part of the Storage controller to ensure that data written to storage can be encrypted as required by Tata Power for data security purposes. This feature should be enabled at Controller Level and should not be limited to few and specific disk drives, to avoid any security/compliance issues in future.	Tender conditions shall prevail
Vol.1	2541	iValue InfoSolutions Pvt. Ltd. (Set 2)	2.29. Eligible Goods and Services, and OEM Criteria	Volume # 1 Page No # 28	f) The proposed OEM should have installed base of at least 20% of the quoted product in terms of volume in a single project.	f) The proposed OEM should have installed base of at least 10% of the quoted product in terms of volume in a single project.	Tender conditions shall prevail.

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Vol.1	2542	iValue InfoSolutions Pvt. Ltd. (Set 2)	2.29. Eligible Goods and Services, and OEM Criteria	Volume # 1 Page No # 28	o) OEM of all active IT components should have online portal to raise tickets for support and services.	The OEM of active IT components should have ticketing systems for support calls	Tender conditions shall prevail.
Vol.1	2543	iValue InfoSolutions Pvt. Ltd. (Set 2)	2.29. Eligible Goods and Services, and OEM Criteria	Volume # 1 Page No # 28	p) Product serial numbers of all IT active components should be available in the OEM's online portal for ease of call log, maintenance and support.	The OEM of active IT components should have ticketing systems for support calls	Tender conditions shall prevail.
Vol.1	2544	iValue InfoSolutions Pvt. Ltd. (Set 2)	2.29. Eligible Goods and Services, and OEM Criteria	Volume # 1 Page No # 28	q) OEM should have end user web interface to log case with product serial number.	The OEM of active IT components should have ticketing systems for support calls	Tender conditions shall prevail.
Vol.1	2545	iValue InfoSolutions Pvt. Ltd. (Set 2)	2.29. Eligible Goods and Services, and OEM Criteria	Volume # 1 Page No # 28	Additional Clause for Camera OEM Eligibility Criteria	Camera OEM should not be suspended/ blacklisted from ONVIF forum. As the integration of Camera with VMS will be on ONVIF only so ONVIF regular updates are essential and any member who is suspended will not get the updates	Tender conditions shall prevail.
Vol.1	2546	iValue InfoSolutions Pvt. Ltd. (Set 2)	2.29. Eligible Goods and Services, and OEM Criteria	Volume # 1 Page No # 28	Additional Clause for Camera OEM Eligibility Criteria	All the cameras in the project should be from the same OEM for ease of integration with VMS and other analytics	Tender conditions shall prevail.
Vol.2	2547	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 71 Pt. -4	4. Shutter Time: 1/5 sec. to 1/25,000 sec. or better	4. Shutter Time: 1 sec. to 1/1,00,000 sec. or better	Shutter Time 1/1 sec. to 1/10,000 sec. or better
Vol.2	2548	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 72 Pt. -15	15. Minimum Illumination: Colour: 0.1, Mono 0.05 lux, IR: 0 lux	15. Minimum Illumination: Colour: 0.001Lux @(F1.6), 0 Lux with IR	Tender conditions shall prevail
Vol.2	2549	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 72 Pt. -16	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: 90°, 180°, mirroring of images, 8 Privacy masks, noise reduction, SNR >52 dB	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	2550	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 72 Pt. -18	18. Wide Dynamic Range: > 90 dB or Better	18. Wide Dynamic Range: > 120 dB or Better	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
Vol.2	2551	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 72 Pt. -21	21. Security: 3. Signed Firmware	21. Security: 3. Signed/ Encrypted Firmware	Tender conditions shall prevail
Vol.2	2552	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 73 Pt. -25	25. Casing IP- 54 rated or better	25. Casing IP- 67 rated or better	Tender conditions shall prevail

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Vol.2	2553	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 73 Pt.-26	26. Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	26. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, ONVIF profile S & G	Tender conditions shall prevail
Vol.2	2554	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.1 Dome CCTV Cameras	Volume # 2 Page No # 73 Pt.-28	28. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	28. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 3 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 3 years. • OEM Shall have RMA Center in India.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	2555	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 74 Pt.-5	5. Shutter Time: 1/1 sec. to 1/10,000 sec. or better	5. Shutter Time: 1/1 sec. to 1/1,00,000 sec. or better	Shutter Time 1/1 sec. to 1/10,000 sec. or better
Vol.2	2556	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 75 Pt.-14	14. Multiple Streams: Quad stream	14. Multiple Streams: Triple stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	2557	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 75 Pt.-15	15. Minimum Illumination: Colour: 0.1, Mono 0.05 lux, IR: 0 lux	15. Minimum Illumination: Colour: 0.001Lux @(F1.6), 0 Lux with IR on	Tender conditions shall prevail
Vol.2	2558	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 75 Pt.-16	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB	16. Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: 90°, 180°, mirroring of images, 8 Privacy masks, noise reduction, SNR >52 dB	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	2559	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 75 Pt.-21	21. Security: 3. Signed Firmware	21. Security: 3. Signed/ Encrypted Firmware	Tender conditions shall prevail

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Vol.2	2560	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 76 Pt -22	22. Analytics: Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, Crowd density estimation.	22. Analytics: Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, People counting, Scene change, Defocus, Motion detection	Edge Analytics The SI will be responsible for designing and implementing edge analytics at either at camera level or server level. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, scene change g) Follow route 2. Wrong way or illegal turn detection.
Vol.2	2561	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 76 Pt -27	27. Certification: UL, EN, CE, FCC, ONVIF profile S, G & T	27. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, ONVIF profile S & G	Tender conditions shall prevail
Vol.2	2562	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.2 Fixed Bullet CCTV Cameras	Volume # 2 Page No # 76 Pt -29	29. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	29. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 3 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 3 years. • OEM Shall have RMA Center in India.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	2563	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 77 Pt -5	5. Shutter Time: 1/1 sec. to 1/10,000 sec. or better	5. Shutter Time: 1/1 sec. to 1/1,00,000 sec. or better	Tender conditions shall prevail
Vol.2	2564	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 77 Pt -7	7. IP delay: (typical) 60 fps: 200 ms	7. IP delay: (typical) 30 fps: 200 ms	Tender conditions shall prevail
Vol.2	2565	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 77 Pt -8	8. Frame rate: 50/60 FPS at full resolutions	8. Frame rate: 25/30 FPS at full resolutions	PTZ Frame rate: 50/60 FPS at all resolutions

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Vol.2	2566	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 78 Pt.-11	11. Multiple Streams: Quad Stream	11. Multiple Streams: Triple Stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	2567	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 78 Pt.-12	12. Minimum Illumination: Colour: 0.04 lux @ F 1.6, B/W: 0.00 lux (at 30 IRE, F 1.6) or better	12. Minimum Illumination: Color 0.001Lux@F1.5, B/W 0Lux(IR ON)	Better specifications are acceptable
Vol.2	2568	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 78 Pt.-16	16. Pan: Pan: 360° endless/continuous, up to 120°/s	16. Pan: Pan: 360° endless/continuous, up to 300°/s	As Per RFP Minimum Requirement mentioned in Tender, Bidder can propose better
Vol.2	2569	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 78 Pt.-17	17. Tilt: Tilt: 3° ~ 90°, up to 300°/s	17. Tilt: Tilt: 3° ~ 90°, up to 240°/s	Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	2570	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 78 Pt.-21	21. Image settings: Saturation, contrast, brightness, sharpness, white balance, BLC, Noise reduction, SNR >55 dB	21. Image settings: Saturation, contrast, brightness, sharpness, white balance, BLC, Noise reduction, SNR >52 dB	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	2571	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 79 Pt.-24	24. Security: 3. Signed Firmware	24. Security: 3. Signed/ Encrypted Firmware	Tender conditions shall prevail
Vol.2	2572	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 79 Pt.-26	26. Camera Analytics: Camera must have edge base analytics Viz: Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	26. Camera Analytics: Camera must have edge base analytics Viz: Enter / leave field, Line Crossing, follow route, Idle / removed object, Counting, Scene Change, Defocus, Motion detection Bidder to ensure minimum 2 Different types of analytics shall run simultaneously in each Camera.	Tender conditions shall prevail
Vol.2	2573	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 80 Pt.-27	27. Alarm I/O: Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interface	27. Alarm I/O: Minimum 1 Input & 1 Output contact integrated/ external for 3rd part interface	Alarm I/O Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface
Vol.2	2574	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 80 Pt.-32	32. Certification: UL, CE, FCC, RoHS, ONVIF profile S, G & T	32. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, ONVIF profile S & G	Tender conditions shall prevail

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Vol.2	2575	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 80 Pt -33	33. IR Illuminator: Inbuilt 850nm intensity adjustable IR with minimum 180 meters range, with object identification	33. IR Illuminator: Inbuilt 850nm intensity adjustable IR with minimum 150 meters range, with object identification	Tender conditions shall prevail
Vol.2	2576	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.1.3 Technical Specifications – CCTV Surveillance System 5.1.3.3 PTZ CCTV Cameras	Volume # 2 Page No # 80 Pt -34	34. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	34. OEM Criteria: • OEM without any JV/ Distributor Should have their own registered office in India since Last 3 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 3 years. • OEM Shall have RMA Center in India.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	2577	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Volume # 2 Page No # 237 Pt. -4.b	4.b. Video Resolution: 2-MP - 1920x 1080p	4.b. Video Resolution: 4-MP - 2592x1520p	As per RFP, Minimum requirement is mentioned, bidder can propose better for both ANPR & RLVD Camera
Vol.2	2578	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Volume # 2 Page No # 237 Pt. -4.c	4.c. Frame rate: Min. 50 ~ 60 FPS	4.c. Frame rate: Min. 25 ~ 30 FPS	Tender conditions shall prevail

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Vol.2	2579	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Volume # 2 Page No # 237 Pt. -4.e	4.e. Lens Type: Varifocal, C/CS Mount, IR Correction full HD lens	4.e. Lens Type: Motorized Varifocal, C/CS or Board Mount, IR Correction full HD lens	As per RFP, Motorized Zoom is not required in ANPR & RLVD Application as per fixed focus
Vol.2	2580	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Volume # 2 Page No # 237 Pt. -4.g	4.g. Minimum Illumination: Colour: 0.5 lux, B/W: 0.1 lux (at 30 IRE)	4.g. Minimum Illumination: Color: 0.05Lux@F1.2, B/W: 0Lux@IR LED ON	Clause to be read as for ANPR & RLVD . 6. Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON
Vol.2	2581	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Volume # 2 Page No # 238 Pt. -4.r	4.r. Alarm I/O: Minimum 2 Input & 1 Output contact for 3rd part interface	4.r. Alarm I/O: Minimum 1 Input & 1 Output contact for 3rd part interface	Clause to be read as for ANPR & RLVD , Alarm I/O: Minimum 1 Input & 1 Output contact for 3rd part interface
Vol.2	2582	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Volume # 2 Page No # 238 Pt. -4.s	4.s. Certification: UL/EN, CE, FCC	4.s. Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	Clause to be read as for ANPR & RLVD , UL, EN, CE, FCC

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2583	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 244 Pt. -3	3. Lens & Resolutions: 5-50mm Lens & 2-MP - 1920x 1080p	3. Lens & Resolutions: 5-50mm Lens & 4-MP - 2592x1520p	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement
Vol.2	2584	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 244 Pt. -4	4. Shutter Time: PAL: 1/20~ 1/30,000 sec.	4. Shutter Time: PAL: 1/5~ 1/20,000 sec.	Request smart city to consider fixed shutter 1/25 to 1/15000s and Automatic electronic shutter for both ANPR & RLVD Camera
Vol.2	2585	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 244 Pt. -6	6. Minimum Illumination: 0.001Lux @ (F1.2, AGC ON), 0.0014Lux @ (F1.4, AGC ON), 0 Lux at IR ON	6. Minimum Illumination: Color: 0.05Lux@F1.2, B/W: 0Lux@IR LED ON	Clause to be read as for ANPR & RLVD . 6. Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON
Vol.2	2586	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 245 Pt. -10	10. WDR: Up to 140 dB	10. WDR: Up to 120 dB	Clause to be read as WDR >= 120 Db for both ANPR & RLVD Camera
Vol.2	2587	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 245 Pt. -13	13. S/N Ratio: >60db	13. S/N Ratio: >52db	Clause to be read as S/N Ratio >55db for both ANPR & RLVD Camera
Vol.2	2588	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 245 Pt. -14	14. Video Compression: H.264, H.265, MPEG-4 & MJPEG	14. Video Compression: H.264, H.265 & MJPEG	Clause to be read as MJPEG, H.264/ H.265 for both ANPR & RLVD Camera
Vol.2	2589	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 245 Pt. -18	18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: 2MP @50 FPS to 60 FPS, Sub stream: D1@ 50FPS to 60 FPS	18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: 2MP @25 FPS to 30 FPS, Sub stream:D1@ 25FPS to 30 FPS, Third stream: VGA@ 25FPS to 30 FPS	Clause to be fully configurable 18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: H.264,2MP @50 FPS to 60 FPS, Sub stream: H.264,2MP @50 FPS to 60 FPS at configurable bandwidth for both ANPR & RLVD Camera

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2590	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 245 Pt. -18	19. Frame rate: 50 to 60 FPS or Better	19. Frame rate: 25 to 30 FPS or Better	As per RFP, Frame rate: 50 to 60 FPS or Better at all resolution 2MP , 720P for both ANPR & RLVD Camera
Vol.2	2591	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 246 Pt. -26	26. LED type: 12 pieces dot matrix array LED or better	Request you to remove this specification as every OEM have its own design.	Clause stands deleted
Vol.2	2592	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.6 ANPR HW Requirements	Volume # 2 Page No # 246	Additional Specification	Certification: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	As per RFP, Minimum requirement is mentioned, bidder can propose better for both ANPR & RLVD Camera
Vol.2	2593	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	Volume # 2 Page No # 254 Pt. -1	1. Image sensor and Effective Pixels (Resolution): 1" or higher, CMOS, Global Shutter, Minimum 9MP, 4096(H) x 2160(V)	1. Image sensor and Effective Pixels (Resolution): 1/7" or higher, CMOS, Minimum 12MP, 4000(H) x 3000(V)	As per RFP, Bidder can propose better
Vol.2	2594	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	Volume # 2 Page No # 254 Pt. -2	2. Electronic Shutter: 1/1000 s to 1/10,000 s or better	2. Electronic Shutter: 1 s to 1/1,00,000 s or better	Tender conditions shall prevail
Vol.2	2595	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	Volume # 2 Page No # 254 Pt. -9	9. Certifications: CE, FCC, EN/UL, RoHS	9. Certifications: UL, CE-EN 55032:2015, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, IEC 61000-6-4:2018, FCC Part 15, Sub part B:2017, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	Tender conditions shall prevail
Vol.2	2596	iValue InfoSolutions Pvt. Ltd. (Set 2)	5.4.3 Speed Violation Detection System (SVD) 5.4.3.7 Speed Detection Camera Specifications	Volume # 2 Page No # 254 Pt. -11	11. Video Compression: MJPEG, H.264	11. Video Compression: MJPEG, H.264, H.265	Clause to be read as MJPEG, H.264/ H.265 for both ANPR & RLVD Camera

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)						
Vol.1	2597	Harriban Broadcasting and Communications	Vol-1	Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'A'	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet INR 250 Crore Average Annual Turnover requirement	A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement. In case, consortium member is MSME of same field then average annual turnover relaxation for MSME (not lead bidder) for last 3 years o All members together should meet INR 250 Crore Average Annual Turnover requirement	Tender conditions shall prevail.						
Vol.1	2598	Harriban Broadcasting and Communications	Vol-1	Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'B'	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	Tender conditions shall prevail.						
Vol.1	2599	Harriban Broadcasting and Communications	Vol-1	Page 40, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B2	Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks <table border="0"> <tr> <td>>= 3 Projects</td> <td>10</td> </tr> <tr> <td>2 Projects</td> <td>8</td> </tr> <tr> <td>1 Project</td> <td>6</td> </tr> </table>	>= 3 Projects	10	2 Projects	8	1 Project	6	The criteria should be made applicable to OEMs as it has been done for ICCG & VMS in Vol-1, Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No B.4.2 & B5	Refer to Addendum 7 (SI. No. 21)
>= 3 Projects	10												
2 Projects	8												
1 Project	6												
Vol.1	2600	Harriban Broadcasting and Communications	Vol-1	Page 42, Clause 3.6.1-Technical Bid Criteria and Evaluation. SI No. B6	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 10 Crores per projects during last Seven (&) years (as on Bid Submission date)	The Sole Bidder or any consortium member (in case of consortium) have successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 3 Crores per projects during last Seven (&) years (as on Bid Submission date)	Tender conditions shall prevail.						
Vol.2	2601	Harriban Broadcasting and Communications	Page 210, 5.4.1.3 ATSC Software Application	Page 210, 5.4.1.3 ATSC Software Application	The system shall have a distributed architecture of subsystems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub-systems (minimum 2 and up to 250). Sub-areas are to be controlled by a regional computer.	This requirement is SCATS (Sydney Coordinated Adaptive Traffic System) specific. Such architectural requirement is not needed for ATCS solutions used in India like CoSoCoSt & SCOOT . Request, please amend this clause - The system shall have a distributed architecture so that signalized junctions can be appropriately grouped into Corridors.	The system shall have a distributed architecture of sub- systems so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 100 Junctions and scalable to 256 Junctions						
Vol.2	2602	Harriban Broadcasting and Communications	Page 210, 5.4.1.3 ATSC Software Application	Page 210, 5.4.1.3 ATSC Software Application	Up to 100 users should be able to connect to the central ATSC system and up to 30 users to regional computer controlling sub-systems with varying levels of security and access at the same time the proposed ATSC system shall be scalable to include any additional junctions in the future.	This requirement is again SCATS specific , Most of the ATCS systems do not use Regional computers so there is no requirement of 100 USERS for ATCS application. More user licenses will increase the extra cost of ATCS application software.	Min 25 users should be able to connect to the central ATSC system and controlling with varying levels of security and access at the same time.The proposed ATSC system shall be scalable to include any additional junctions in the future						
Vol.2	2603	Harriban Broadcasting and Communications	Page 212 5.4.1.3 ATSC Software Application	Page 212 5.4.1.3 ATSC Software Application	When a link is established between two subsystems, the cycle generator of the subsystem linking is speeded up or slowed down (i.e. the cycle time of the subsystem is increased or decreased) until the specified relationship between the two subsystems is achieved. If a junction in a subsystem is required to change its grouping frequently depending on traffic conditions, it should be dynamically linked or delinked with other subsystems.	Requirement seems to SCATS specific , Composite Signal Control strategy as mentioned in RFP do not use regional Computers. AS mentioned in RFP 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) PAGE NO 208. This clause should be deleted because CoSiCoSt do not use this term	Tender clause stand deleted						

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2604	Harriban Broadcasting and Communications	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	d) 32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB	processor with 512 K flash and 128 K RAM, There is No requirement of additional SD cards where controller is connected to control room.	Tender conditions shall prevail
Vol.2	2605	Harriban Broadcasting and Communications	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	Page 222 5.4.1.4 Traffic Signal Controller, Technical specification of controllers	The Traffic Signal Controller equipment should be 64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.	The Traffic Signal Controller equipment should be 32/64-bit as mentioned in pint no 2, there is contradiction in point no 2 and 10.	The Traffic Signal Controller equipment should be 32/64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.
Vol.2	2606	Harriban Broadcasting and Communications	Page 224 5.4.1.6 Traffic Light Aspects	Page 224 5.4.1.6 Traffic Light Aspects	Operating Temperature Range: As per NOIDA weather conditions Turn Off/Turn ON Time: 75 milli seconds max	Noida Weather condition is different from Guwahati and this clause may please be removed	Operating Temperature Range: As per Guwahati weather conditions Turn Off/Turn ON Time: 75 milli seconds max
Vol.2	2607	Harriban Broadcasting and Communications	Page 225 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	Page 225 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	The ATCC system shall be deployed on city road primarily on city's entry, exit and at major points of intersection in NOIDA, the objective of the sub-system is to collect traffic data at major points.	Please provide the Quantity and Location of ATCC in BoQ , and Requirement should be the city of Guwahati instead of NOIDA	The ATCC system shall be deployed on city road primarily on city's entry, exit point and other major points where other systems are not covered Guwahati.
Vol.1	2608	EFKON India Pvt. Ltd	Vol-01/ 2. Instruction to Bidders 2.8. Earnest Money Deposit (EMD)	Page 16 of 104	2.8. Earnest Money Deposit (EMD) The bid document must be accompanied by the Earnest Money Deposit of Rs. 2.59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	Considering the large value of EMD, we request GSCL to kindly accept the EMD in the form of Bank Guarantee like all other Smart City Tenders.	EMD shall be INR 2,15,00,000/-. Bidder to Refer Point 1.01 of Amendment 01. Regarding mode of payment of EMD, Bid condition shall prevail.
Vol.1	2609	EFKON India Pvt. Ltd	Vol-01/ 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	h) The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.	The given clause is OEM specific and restricting participation of MSME in this RFP. We request to amend the clause as below: h) The OEM for VMS proposed by the Bidder must be operational in minimum 2-1 City Surveillance / TMS projects in India with at least 4000 500 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.	Tender conditions shall prevail.
Vol.1	2610	EFKON India Pvt. Ltd	Vol-01/ 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	i) The ICCS Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	The given clause is OEM specific and restricting participation of MSME in this RFP. We request to amend the clause as below: i) The ICCS Solution proposed by the Bidder must be operational in minimum 2-1 City wide projects in India with at least 4000 500 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	Tender conditions shall prevail.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	2611	EFKON India Pvt. Ltd	Vol-01/ 2.29. Eligible Goods and Services, and OEM Criteria	Page 28 of 104	o) OEM of all active IT components should have online portal to raise tickets for support and services. p) Product serial numbers of all IT active components should be available in the OEM's online portal for ease of call log, maintenance and support. q) OEM should have end user web interface to log case with product serial number.	Considering the scope of services in this project these clauses are OEM specifics and this is not feasible to comply with for all IT components. This will provide hindrance in providing a comprehensive solution. Hence we request authority to amend these clauses. e) OEM of all active IT components should have online portal to raise tickets for support and services. p) Product serial numbers of all IT active components should be available in the OEM's online portal for ease of call log, maintenance and support. q) OEM should have end user web interface to log case with product serial number.	Tender conditions shall prevail.
Vol.1	2612	EFKON India Pvt. Ltd	Vol-01/ 4.3 Stage 3: Commercial Evaluation	Page 32 of 104	e) The bid price shall include all taxes and levies and shall be in Indian Rupees and mentioned separately.	We understand the quoted price by bidder shall be excluding GST amount and GST shall be paid as per actual to successful bidder. Please confirm, if understanding is correct.	The quoted price by bidder shall be inclusive of GST amount.
Vol.1	2613	EFKON India Pvt. Ltd	Vol-01/ 3.6.4 Manpower Deployment	Page 47 of 104	3.6.4 Manpower Deployment	Requisite Manpower is not mentioned in the Excel Sheet (Price Bid) provided with the RFP documents. Please confirm under which item bidder needs to quote for the charges for Manpower mentioned under this section.	Bidder has to load the manpower deployment cost in the O&M schedule and no separate line item shall be provided.
Vol.2	2614	EFKON India Pvt. Ltd	Vol. 02/ 3.3 Project Broad Scope	Page 10 of 400	Figure 1: Diagrammatic Representation of Scope of Work for System Integrator	As per the diagram given we understand that there is requirement of viewing Centre at Police stations but a sper the BOM given there is no provision for Hardware and Software for Police Sttions. Please confirm if this I spart of scope in this RFP. If yes then please provide the details of Hardware and Software for these locations. Please also provide address of these locations with the details of the services necessary to be accessed at these centres for calculation of Bandwidth.	Yes, at viewing centre we will give only connectivity and PoE Switches only. Hardware & Software will be procured by Police Department.
Vol.2	2615	EFKON India Pvt. Ltd	Vol. 02/ 3.3 Project Broad Scope	Page 10 of 400	General Query	We understand Disaster recovery services are not envisaged in this project as these are not mentioned in BOM. Please confirm if understanding is correct.	There is no disaster Recovery Centre planned in this RFP.
Vol.2	2616	EFKON India Pvt. Ltd	Vol. 02/3.4 Project Objectives	Page 11 of 400	Implementation of Fixed, Dome and PTZ cameras with edge analytics capabilities in 661 locations (Including the 145 Bus Stops and 23 Nos of AMTRON - POP sites)	As per price Bid there seems to be 757 locations for CCTV installation	Tender conditions shall prevail
Vol.2	2617	EFKON India Pvt. Ltd	Volume-II, Section 3.4 Project Objectives	Page 11 of 400	Integration with existing safety & surveillance systems already implemented as part of the initiative taken by Police department etc.	Please provide details of integration required with existitng surveillance system.	There is no any existing system required to integrate, but system should be capable to integrate any existing or old system in future.
Vol.2	2618	EFKON India Pvt. Ltd	Volume-II, Section 4.22 Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICC	Page 49 of 400	To give area wise video feed to monitor only at Twenty (20) Nos. Police Stations (Central, East & West District).	We understood that SI will not provide any bandwidth and infrastructure at these 20 police stations. These police stations will access Video feed over internet. Internet is in scope of respective Police station.	Tender conditions shall prevail
Vol.2	2619	EFKON India Pvt. Ltd	Volume-II, Section 5.1.3.1 Dome CCTV Cameras	Page 71 of 400	Point No. 20- Protocol: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP, ICMP, RTSP, FTP, DHCP, NTP (SNTP), SNMP, 802.1x, DNS, DDNS, SMTP	We Request to change this clause as: Protocol: IPv4/ IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP, ICMP, RTSP, FTP, DHCP, NTP (SNTP), SNMP, 802.1x, DNS, DDNS, SMTP	Tender conditions shall prevail
Vol.2	2620	EFKON India Pvt. Ltd	Volume-II, Section 5.1.3.2 Fixed Bullet CCTV Cameras	Page 74 of 400	Point No. 20- Protocol: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP, ICMP, RTSP, FTP, DHCP, NTP (SNTP), SNMP, 802.1x, DNS, DDNS, SMTP	We Request to change this clause as: Protocol: IPv4/ IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP, ICMP, RTSP, FTP, DHCP, NTP (SNTP), SNMP, 802.1x, DNS, DDNS, SMTP	Tender conditions shall prevail
Vol.2	2621	EFKON India Pvt. Ltd	Volume-II, Section, 5.1.3.3 PTZ CCTV Cameras	Page 77 of 400	Point No. 23- Protocol: TCP, HTTP, HTTPS, RTP,FTP, RTSP, NTP, SMTP,802.1x, IP v4 & v6 Remote Administration: Remote configuration and status using web-based tool	We Request to change this clause as: Protocol: TCP, HTTP, HTTPS, RTP,FTP, RTSP, NTP, SMTP,802.1x, IP v4/ v6 Remote Administration: Remote configuration and status using web-based tool	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	2622	EFKON India Pvt. Ltd	Volume-II, Section 5.1.3.4 Field Junction Box	Page 80 of 400	Protection: IP 55, Junction Box design should ensure to keep the temperature within suitable operating range for equipment's and should also avoid intentional water splash and dust intake	As per section 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever, it has mentioned " Boxes shall be dustproof and impermeable to splash-water." Which says IP 54 protection and in Section 5.1.3.4 IP 55 protection is asked. We Request to change the clause as: Protection: IP 54, Junction Box design should ensure to keep the temperature within suitable operating range for equipment's and should also avoid intentional water splash and dust intake	Tender conditions shall prevail
Vol.2	2623	EFKON India Pvt. Ltd	Volume-II, Section 5.1.3.5 Poles for Camera	Page 81 of 400	Height: 10 Meters (or higher), as-per requirements for different types of cameras & Site conditions	We Request to change this clause as: Height: 6 Meters (or higher), as-per requirements for different types of cameras & Site conditions	Tender conditions shall prevail
Vol.2	2624	EFKON India Pvt. Ltd	Volume-II, Section 5.2.10 Helpdesk	Page 138 of 400	i. Helpdesk Capacity: SI is required to provide a minimum 10-seater helpdesk at Command Control Center during all operation hours as specified in the RFP.	There is discrepancy of Helpdesk capacity mentioned in RFP Volume-II and Schedul-B BOQ. As per BOQ Schdule-B line item 5.5.10 says "Furniture for Help Desk - 5 seater, Where as RFP Volume-II Section 5.2.10 says minimum 10 seater helpdesk. Kindly confirm the exact qty of seating arrangement to be consider for costing.	Help Desk Furniture required a 5 Seater only at temporary ICCCL location algorithm the 15 seater operator Desk & Chair for ICCCL Operator (Total 20 seats asked in Schedule-B except Manager, Meeting Room and Guard seating arrangement
Vol.2	2625	EFKON India Pvt. Ltd	Volume-II, Section 5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	Page 225 of 400	Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	As ATCC is not the part of BOQ. We request to remove this section	The vehicle detector shall be 4D Radar / thermal Camera which can cover minimum 4 lanes and upto 130 mts, with high definition for Count, classification and Queue detection of all the vehicles passing through Junction in all day and night conditions. Vehicle detector shall be able to operate with more than 95 % Accuracy in all weather conditions like Fog, Rain and dust storm, road surface temperature without without degrading its performance
Vol.2	2626	EFKON India Pvt. Ltd	Volume-II, Section 5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Page 238 of 400	Protocol: IPv4, IPv6, HTTP, HTTPS, FTP/SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, NTP, QoS, ONVIF Profile S	We Request to change this clause as Protocol: IPv4/IPv6, HTTP, HTTPS, FTP/SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, NTP, QoS, ONVIF Profile S	Tender conditions shall prevail
Vol.2	2627	EFKON India Pvt. Ltd	Volume-II, Section 5.4.2.5 Technical Specification - ANPR SW Requirements	Page 244 of 400	b. ANPR Specification: Base Specification of Fixed Box Cameras (Section 6.2.2.2 of Annexure I) must be part of the	Section 6.2.2.2 is not available in RFP Volume-II. Please confirm for ANPR Camera specification we need to follow Section 5.4.2.6, ANPR HW Requirements?	Base Specification of Fixed Box Cameras must be part of the 5.4.2.6 ANPR HW Requirements
Vol.2	2628	EFKON India Pvt. Ltd	Volume-II, Section 5.4.2.6 ANPR HW Requirements	Page 246 of 400	Protocol: IPv4, IPv6, TCP/IP, SNMP, HTTP, HTTPS, UPnP, RTSP, RTP, RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE and 802.1x	We Request to change this clause as Protocol: IPv4/IPv6, TCP/IP, SNMP, HTTP, HTTPS, UPnP, RTSP, RTP, RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE and 802.1x	Tender conditions shall prevail
Vol.2	2629	EFKON India Pvt. Ltd	Volume-II, Section 12.3 Locations for SVD	Page 392 of 400	Locations for SVD Airport Road-4 Cameras Bypass Road-Between Khanapara-Jalukbari (Two Locations) - 8 Cameras	As per Section 12.3 Locations for SVD, there are 12 camera Qty mentioned, Where as in Section 12.7 Bill of Material (BOM) Summary line item no. 1.1.3 says 6 nos. For line item 1.1.3, 9 MP IP Camera should be 12.	Yes this is correct QTY. As we have mentioned; 1.1.3 -"Speed Violation Detection System, Including the complete solutions - 6 Nos. 1.1.4 - Vehicle Activated Radar Speed Signs - 12 Nos. Because One Speed Detection Camera will cover 2 Lane so Camera Requirement is 6 Only.

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Vol.2	2630	EFKON India Pvt. Ltd	Volume-II, Section 12.7 Bill of Material (BOM) Summary 3.0 OFC - Network	Page 396 of 400	Line Item 3.1 Optical Transmission Equipment's for POP Sites	Please provide network topology details & diagrams considered to arrive qty specified in BOQ along with respective locations	SI bidder to design best solutions based on ground feasibility.
Vol.2	2631	EFKON India Pvt. Ltd	Volume-II, Section 12.7 Bill of Material (BOM) Summary 5.4 Building Utilities for ICC	Page 399 of 400	Line item 5.4.7 Fixed Dome Cameras with 32	Please elaborate this point	this is typing mistake and Read as - 5Fixed Dome Cameras' only. Please ignore "with 32"
Vol.2	2632	EFKON India Pvt. Ltd	Gen.		DR not required	We understood DR is not required and not in scope of SI.	Yes DR is not considered in this RFP.
Vol.2	2633	Decos Software Development Pvt. Ltd	Scope of work volume 2	General query	Number of users accessing the system	Number of users accessing the system is not mentioned in the RFP. To estimate and provide better hardware sizing for solution hosting we need approx number of users who will access the system. Kindly mention number of users.	Approx. 40 to 50
Vol.2	2634	Decos Software Development Pvt. Ltd	Scope of work volume 2	Page 230 of 400	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera 5.4.2.1 Functional Requirement – Traffic Violation Detections System e) The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases.	Our solution supports My SQL, SQL & Oracle database. Is it mandatory that the solution should also support PostGre SQL? If so than request you to let us know why it is mandatory.	Clause to read as The system should support Microsoft SQL/ MySQL/ PostgreSQL/ Oracle databases.
Vol.2	2635	Decos Software Development Pvt. Ltd	Scope of work volume 2	Page 21 of 400	4.5 Finalization of Detailed Technical Architecture Security	Do we need to provide SSL Certificates? Do we have to do CERT-IN Performance testing?	Tender conditions shall prevail
Vol.2	2636	Decos Software Development Pvt. Ltd	Scope of work volume 2	General query	Implementation	For fast implementation, we prefer doing onsite implementation to meet the deadline . Will tender authority provide desk space for implementation team?	Refer clause no. of Vol.01 section 6.1.9 Project Management and Governance 6.1.9.1 Project Management Office (PMO)
Vol.2	2637	Decos Software Development Pvt. Ltd	Scope of work volume 2	General query	Implementation	We are assuming that this is going to be a centralised implementatio at tender authority location. Please confirm. If not then please mention number of locations where solution needs to be implemented.	Tender conditions shall prevail
Vol.2	2638	Decos Software Development Pvt. Ltd	Scope of work volume 2	Page 21 of 400	14. SMS Gateway Integration-	Does tender authority have any existing SMS and Email subscription? If Yes then can we use the same in this system. If we don't have any existing subscription then can tender authority will do recharge as per need? Volume of the SMS will be very high and it's not feasible for a vendor to assume volume. We request tender authority to provide us SMS and Email subscriptions. Integration of the same will be done by selected vendor.	MSI to consider as part of their bid
Vol.2	2639	Decos Software Development Pvt. Ltd	Scope of work volume 2	Page 157 of 400	Handholding and Training	We are assuming, tender authority will provide training infrastructure like training room, projector, table, chairs etc. Please confirm Approx number of users to train?	Yes, GSCL will provide the training infrastructure like training room, projector, table, chairs etc
Vol.2	2640	Decos Software Development Pvt. Ltd	Scope of work volume 2	General query	support timing and work days	What will be the support timing and work days?	Tender conditions shall prevail

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Vol.2	2641	Decos Software Development Pvt. Ltd	Scope of work volume 2	Page 324 of 400	6.1.5 Go-Live Preparedness and Go-Live c) The SI shall ensure that all the data migration is done from existing systems (if any).	Do we have to migrate any existing data? If Yes then please mention volume and format module wise.	Will be provided to winning SI bidder
Vol.2	2642	Decos Software Development Pvt. Ltd	Scope of work volume 2	Page 322 of 400	6.1.4 Integration Phase Integration Phase	For integration with all other systems we need their APIs, all the system APIs will be provided by tender authority to integrate. Please confirm Also mention systems which needs to be integrated.	In this tender we are implementing only two components - CCTV City Surveillance & ITMS (ATSC, TVDS, SVD) and if any existing system is there, GSCL will provide the API of existing and other system related to this RFP.
Vol.2	2643	Decos Software Development Pvt. Ltd	Scope of work volume 2	General query	Data Digitization	Does the bidder have also to do digitization of data for the solution? If so, please mention the number of documents to be digitized? Scanning documents will be out of scope. Please confirm	Tender conditions shall prevail
Vol.2	2644	Trigyn	Page 9 3.2 Standards & Protocols	Page 9 3.2 Standards & Protocols	The System Integrator project under this RFP shall comply with the following standards and protocols as well as others as may be applicable	List of 14 Standrad/Protocol Please Clarify , if Sole Bidder to confirm any compliance also to proven documents available with Consortim Partner, OEMs	Tender conditions shall prevail
Vol.2	2645	Trigyn	Page 360 11.14 Security Controls for Cloud Services	Page 360 11.14 Security Controls for Cloud Services	x) Monitor Vendor Service level agreement for annual end-to-end service availability of 99.999 percent. The end to end service agreement should be in place for minimum period of six years form the date of operations of the systems.	99.999 % is pratical not peasible	Tender conditions shall prevail
Vol.2	2646	Trigyn	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	2647	Trigyn	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3af, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3af Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3af
Vol.2	2648	Trigyn	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Tender conditions shall prevail
Vol.2	2649	Trigyn	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher	This is minimum requirement, bidder can propose better solutions
Vol.2	2650	Trigyn	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 22 Mpps or better Switching capacity: 20 Gbps or better	Tender conditions shall prevail

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Vol.2	2651	Trigyn	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, STNP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, STNP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports	Tender Conditions shall prevail
Vol.2	2652	Trigyn	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	2653	Trigyn	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future	Tender conditions shall prevail
Vol.2	2654	Trigyn	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply.	Should support redundant and field-replaceable Power Supply.
Vol.2	2655	Trigyn	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses	Tender conditions shall prevail
Vol.2	2656	Trigyn	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	2657	Trigyn	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	2658	Trigyn	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 3900 VLANs	Support for at least 4000 VLANs including reserved VLANs (if any)
Vol.2	2659	Trigyn	Page 166, Spine & Leaf Switch, clause no. 11	Page 166, Spine & Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 90,000 or more MAC addresses	Support for 40,000 or more MAC addresses
Vol.2	2660	Trigyn	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all Oems are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease .	Tender conditions shall prevail
Vol.2	2661	Trigyn	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	2662	Trigyn	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPSec VPN throughput)	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	2663	Trigyn	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps.	Clause deleted

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Vol.2	2664	Trigyn	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete	The device should support 1000 SSL VPN clients from day-1
Vol.2	2665	Trigyn	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats.	Tender conditions shall prevail
Vol.2	2666	Trigyn	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	2667	Trigyn	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete	Clause deleted
Vol.2	2668	Trigyn	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	2669	Trigyn	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections	Tender conditions shall prevail
Vol.2	2670	Trigyn	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete	Clause deleted
Vol.2	2671	Trigyn	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete	Clause deleted
Vol.2	2672	Trigyn	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Tender conditions shall prevail
Vol.2	2673	Trigyn	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to polulate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	2674	Trigyn	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.

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Vol.2	2675	Trigyn	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	Suggested Clause : a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICESA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology	Tender conditions shall prevail
Vol.2	2676	Trigyn	page No. 198, Storage Specifications	page No. 198, Storage Specifications	a) Storage Solution with NSPoF (No single point of failure) Architecture. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB. The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).	Refer to addendum XII
Vol.2	2677	Trigyn	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	To be removed	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	2678	Trigyn	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	2679	Trigyn	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.
Vol.2	2680	Trigyn	L2 Switch for POP	L2 Switch for POP	Change Request	Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2681	Trigyn	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.	Refer to Addendum VII (sl no 17)
Vol.2	2682	Trigyn	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	2683	Trigyn	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card.100G ports shall not be on the same card	Request to Delete	Refer to Addendum VII (sl no 17)

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Vol.2	2684	Trigyn	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC,1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	Refer to Addendum VII (sl no 17)
Vol.2	2685	Trigyn	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	Pls allow Rest conf and API integration also.	Refer to Addendum VII (sl no 17)
Vol.2	2686	Trigyn	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	Request to delete	FIPS-140-2 or equivalent.
Vol.2	2687	Trigyn	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete	FCC Part 15 Class A or equivalent.
Vol.2	2688	Hewlett Packard Enterprise	5.1.2.4 Storage/Recording Requirements	66	Point b - 30 days storage of all the surveillance CCTV camera feeds to be stored at Data Centre and Flagged data (critical incidents) will be stored for approximately 90 days, permanent storage envisaged on secondary/back-up storage	We would request to consider only "Disk based" storage as "Secondary / Backup storage" since Tape storage is almost reaching to the end of life-cycle. Considering that vendor need to maintain it for 5 years - hence would request to consider disk based Secondary / Backup storage for storing of CCTV Camera feeds. Please confirm?	Tender conditions shall prevail
Vol.2	2689	Hewlett Packard Enterprise	5.1.2.4 Storage/Recording Requirements	66	Point e - 365 days storage of traffic junction data for ATSC at Data Centre and Flagged data will be stored for approximately 5 years.	Since flagged data will be stored for Approximately 5 years hence would request to consider only disk based solution. Although we can provide the Tape Based solution however considering the long term life-cycle - would request to consider Disk based solution only from both Management and data life-cycle perspective. Please confirm?	Tender conditions shall prevail
Vol.2	2690	Hewlett Packard Enterprise	5.1.2.4 Storage/Recording Requirements	66	Point f - Above all systems except ITMS are required to be stored online thirty (30) days of video for all cameras on primary storage, balance 60 days will be on low cost secondary storage /tape library.	Request to remove the tape Library option. Although as vendor - we can provide the Tape library option however considering the long-term life-cycle, Data consistency and available - low cost secondary storage would be preferred option. Requesting to remove Tape Library option. Please confirm?	Tender conditions shall prevail
Vol.2	2691	Hewlett Packard Enterprise	5.1.4.2 VMS General	95	Point 13 - Storage of video: The system shall store online thirty (30) days of video for all cameras. Balance 60 days will be on low cost secondary storage (compressed form) or tape library	Request to remove the tape Library option. Although as vendor - we can provide the Tape library option however considering the long-term life-cycle, Data consistency and available - low cost secondary storage would be preferred option. Requesting to remove Tape Library option. Please confirm?	Tender conditions shall prevail
Vol.2	2692	Hewlett Packard Enterprise	5.3.11 Storage Specifications (Point 4 - Capacity)	199	a) Storage should be offered with minimum 3 PB usable capacity. (Primary for 30 Days + 5 PB for 90 Days Secondary Flagged Data) b) Solution should have support for a minimum of Deployment more than 10 PB usable capacity.	Our understanding from 3PB usable capacity for 30 Days shall be part of a single storage array? Please confirm? Accordingly 5PB usable capacity for 90 days secondary flagged data shall also be a part of a single disk based secondary storage? Please confirm?	Tender conditions shall prevail
Vol.2	2693	Hewlett Packard Enterprise	5.3.11 Storage Specifications (Point 5 - Storage)	199	Should support various RAID levels (0, 1, 6, 10/DP or equivalent)	Since we use a concept of Protection level instead of using the word RAID hence Request to change this clause as "Should support various Raid Levels or Protection levels (0,1,6, 10/DO or equivalent).	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.
Vol.2	2694	Hewlett Packard Enterprise	5.3.11 Storage Specifications (Point 5 - Storage)	199	Should support disaster recovery mechanism natively	Considering that storage will be used for Video data hence our understanding is that even if one flagged video file needs to be replicated from storage to other location - it shall be possible natively from storage. Please confirm?	Tender conditions shall prevail
Vol.2	2695	Hewlett Packard Enterprise	5.3.11 Storage Specifications (Point 5 - Storage)	199	Should be able to scale out without service interruption	Considering the requirement of 10PB scalability - Request to please specify the number of scale-out controllers requirement. Our understanding is that offered solution shall be able to scale-out at-least 32 number of nodes or controllers. Please confirm?	f) Should be able to scale out/scale up without service interruption
Vol.2	2696	Hewlett Packard Enterprise	5.3.11 Storage Specifications (Point 6 - Hardware platform)	200	d) Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports. e) Storage shall have minimum front-end support for 16 Gb and backend support for minimum 12 Gb.	Seems to be typo. Since authorities have already mentioned 8 x 10/40Gbe hence clause e shall be "Storage shall have minimum front-end support for 10Gb and backed support for minimum of 12Gb. Please confirm?	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.

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Vol.2	2697	Hewlett Packard Enterprise	5.3.12 Hyper Converged Infrastructure (HCI) - Networking Integration & Automation	202	The HCI should support connecting to external 3rd party Storage (FC,ISCSI,NFS) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI.	Kindly update the clause to "The HCI should support connecting to external 3rd party Storage (FC/ISCSI/NFS) into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI." Every HCI OEM has a different architecture and supports only certain set of storage protocols for capacity expansion and migration from existing environment.	Tender conditions shall prevail
Vol.2	2698	Hewlett Packard Enterprise	5.3.12 Hyper Converged Infrastructure (HCI) (Point 6 - Virtualization - Sub point 6.1)	203	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support heterogenous hypervisor environment viz. Hyper-V & VMware	Every HCI appliance uses the different architecture while providing the required capability to customer. HPE HCI solution is based upon VMware hypervisor. Considering it - would request to modify the clause as "The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed."	The vendor must provide all features and license applicable in common available Hypervisor on day 1. No purpose built Hypervisor is allowed. Proposed solution should support hypervisor environment viz. Hyper-V or VMware or RedHat or KVM or AHV or Xen
Vol.2	2699	Hewlett Packard Enterprise	5.3.12 Hyper Converged Infrastructure (HCI) (Point 6 - Virtualization - Sub point 6.4)	204	the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solutions without the need for agents inside the virtual machines.	This clause seems to be very specific to a vendor. Request to either delete this clause or modify it as "the virtualization software should have Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and hips solution"	Tender conditions shall prevail
Vol.2	2700	Hewlett Packard Enterprise	5.3.12 Hyper Converged Infrastructure (HCI) (Point 6 - Virtualization - Sub point 6.7)	204	The solution shall support provisioning across multihypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	HPE HCI is based upon VMware Hypervisor but VMs can be windows, Linux, Microsoft etc and will be provisioned as per requirements. Request you to delete this clause or modify it as" The solution shall support provisioning from at-least one of the hypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.	Clause Amended Kindly read as, "6.7. The solution shall support provisioning from at-least one of the hypervisor (e.g.: VMware ESXi 6.5 or higher, Microsoft Hyper-V 2016 or higher, System Center 2016 or higher) virtual and public cloud environments.
Vol.2	2701	Hewlett Packard Enterprise	Vol.02 - 5.3.1.2 IT Infrastructure for Data centre	161	The proposed server models wherever applicable shall be Blade Mount servers with key board, monitor, etc. shared to minimize the requirement of rack space in Data center considering any space constraints. The model however shall not pose constraints in performance.	Kindly delete this clause since all leading HCI vendors propose 2U rack form factor appliance. Each HCI node needs to have multiple capacity SSD's which is not possible in blade form factor(max. 2 HDD's/SSD's).	Clause deleted
Vol.2	2702	Hewlett Packard Enterprise	Additional Query			As per RFP pg#105 of Vol 2, SI needs to run video analytics on selected set of cameras. To run VA SW, dedicated physical servers with min. 4 x Tesla T4 cards would be needed for optimal performance. Hence request the authority to include the technical specs of the GPU servers in addition to existing HCI nodes.	Bidder to provide servers as per software requirements
Vol.2	2703	Hewlett Packard Enterprise	Additional Query			As per RFP pg#118 of Vol 2, SI needs to provision analytics platform with advanced machine learning capabilities to maximize business value. To accomplish the same, specialized hardware with dedicated 8 x Tesla V100 32GB cards are needed in a single server which can handle upto 1PF compute requirement.Hence request the authority to include the technical specs of Machine Learning server with min. 1 qty.	Bidder to provide servers as per software requirements
Vol.2	2704	Hewlett Packard Enterprise	Vol 2 - 4.22. 8.a)Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICC	Page no 50	Servers (inclusive of OS) - Application Servers, Database Server, Video Recording Server, Video Management Server, Enterprise Backup Server, Domain Controller, Failover Servers for application and Recording Servers	Scheduled unattended backup using policy-based management for all Server and OS platforms The software should support on-line backup and restore of various applications and Databases The backup software should be capable of having multiple back-up sessions simultaneously The backup software should support different types of backup such as Full back up, Incremental back up, Differential back up, Selective back up, Point in Time back up and Progressive Incremental back up and snapshots The backup software should support different types of user interface such as GUI, Web-based interface.Data Backup is a very critical part of the software for such prestigious project. Functional requirements needs to be incorporated in the RFP. Also confirm the capacity of data to be backed up for proposing quantity of backup software. Below outcomes are expected from any Backup Software.	Tender conditions shall prevail

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Vol.2	2705	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#165(5.3.2 Data Center Spine & Leaf Switching Solution)	Leaf Switch – i) 24x 1000BaseT Ports ii) 24 x 10GbE SFP+ Fiber ports. Populated with 24 numbers of 10 Gig SFP+ transceivers (multimode) iii) 2x40GbE QSFP+ ports for uplink connectivity to each Spine Switches. iv) additional 4x40GbE QSFP+ ports for future scalability.	Requesting to please change this as " i) 24x 1000BaseT Ports/24x1000 BaseT transceiver modules ii) 24 x 10GbE SFP+ Fiber ports. Populated with 24 numbers of 10 Gig SFP+ transceivers (multimode) iii) 2x40GbE QSFP+ ports for uplink connectivity to each Spine Switches. iv) additional 4x40GbE QSFP+ ports for future scalability.	Tender conditions shall prevail
Vol.2	2706	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#168(5.3.2 Data Center Spine & Leaf Switching Solution)	Should support VXLAN or other virtualization techniques from day 1	VxLAN is an overlay technology, tunnel count is very relevant here to avoid any solution gap.Request to please add " VXLAN L2/L3 gateway support for up to 1K tunnels" to avoid any bottleneck or low capacity switch solution in Leaf and Spine layer.	The proposed solution shall have the option to run virtually.
Vol.2	2707	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#169(5.3.3 Data Center Out of Band Switches)	Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC).	This is a management switch,PFC is more relevant in Leaf and Spine layer.Request to please change this as"Must support Flow Control". So that leading OEM can participate with their best solution at each layer.	Tender conditions shall prevail
Vol.2	2708	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#169(5.3.3 Data Center Out of Band Switches)	Should support minimum 8MB buffer.	Request to please change this as "Should support minimum 4MB buffer".So that leading OEM can participate.	6. Should support minimum 4MB buffer
Vol.2	2709	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#193(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Profiling / Visibility	Support the profiling of Android & iOS mobile devices, with the ability to detect: - - Manufacturer / Model - OS Type / Version - IMEI Identifier - Serial Number - Installed Applications	Request to please change this as below for wider OEM participation- Support the profiling of Android & iOS mobile devices, with the ability to detect: - - Manufacturer / Model - OS Type / Version - IMEI Identifier - MAC Address -IP Address Installed Application detection and Serial no identification is not NAC functionality,it is MDM features.Request to please change this,so that leading OEM can participate.MAC and IP is very relevant information for any device connecting to network to implement granular policies and segmentation.	Support the profiling of Android & iOS mobile devices, with the ability to detect: - - Manufacturer / Model - OS Type / Version - IMEI Identifier - Serial Number
Vol.2	2710	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#193(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Profiling / Visibility	The proposed NAC solution must support Profiling via SNMP, DHCP fingerprinting, HTTP-agent, NMAP, RSPAN,CDP, LLDP, WMI	Request to please change this as "The proposed NAC solution must support Profiling via SNMP, DHCP fingerprinting, HTTP-agent, NMAP,LLDP, WMI".SO that leading OEM can participate.CDP,RSPAN is OEM specific.	The proposed NAC solution must support Profiling via SNMP/DHCP fingerprinting/ HTTP-agent/CDP/RSPAN/NMAP/LLDP/ WMI/equivalent.
Vol.2	2711	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#195(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Client	The proposed NAC solution must support a Unified NAC client shall support both NAC and VPN functionality.	Request to please change this as "The proposed NAC solution must support a NAC client and VPN client". So that leading OEM can participate.AAA can not work as a VPN concentrator,this is OEM specific architecture.	Clause deleted

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Vol.2	2712	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#195(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Client	The proposed NAC solution must support automated provisioning and deployment clients remotely	This is restrictive and also not standard practice.Request to please modify this as "The proposed NAC solution must support automated upgradation with a new version is available" .Request to please change this clause for wider OEM participation.	Clause deleted
Vol.2	2713	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#195(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- Client	The NAC client must support installation onto the following operating systems: Microsoft, Mac OS, Android, iOS	Request to please change this as "The NAC client must support installation onto the following operating systems: Microsoft, Mac OS, Linux" .Posture of mobile devices like iOS and Android is MDM functionality,then NAC can be integrated with MDM for policy enforcement.Request to please change so that leading OEM can participate in this project.	The NAC client must support installation onto the following operating systems: Microsoft, Mac OS, Linux etc.
Vol.2	2714	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- VPN	The proposed NAC solution must have the capability to support interfacing and integration with an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN).	AAA-NAC is not a Policy Enforcement Point it is a Policy Decision Point.So Ipsec/SSL VPN can utilize AAA-NAC as an Authentication/Authorization source.Request to please change this clause as "The proposed NAC solution must support an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN) as an Authentication/Authorization source" .SO that leading OEM can participate.	The proposed NAC solution must support an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN) as an Authentication/Authorization source
Vol.2	2715	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- VPN	The proposed solution should have an option to enable session migration between NAC and SSL Sessions in future for Seamless user experience accessing corporate resources from Home, Public or corporate Network	This is restrictive and OEM specific approach .Request to please remove this clause for wider OEM participation.The proposed NAC solution must support an IPsec or Secure Sockets Layer (SSL) virtual private network (VPN) as an Authentication/Authorization source	Clause deleted
Vol.2	2716	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- License Management System	The proposed solution should have a centralized license management system with capability to lease licenses to different appliances from a central pool	OEM to OEM licensing architecture differs.Request to please modify this as "The proposed solution should have sufficient license from day-1 to activate all the features asked in this scope" .	The proposed solution should have sufficient license from day-1 to activate all the features asked in this scope
Vol.2	2717	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)- License Management System		Requesting the clarity - How many devices for endpoint posture check from Day 1? How many employee BYOD devices are expected? What kind of redundancy is required? Single location (DC-1:1) or multiple locations (DC-DR).	Approximately 4000 End Points

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Vol.2	2718	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#196(5.3.10 Authentication, Authorization and Accounting – Network Access Control (AAA –NAC)-Others Features	Requesting Addition as "Other required features"	Requesting to please add the following for better control of Network-NAC solution shall have inbuilt TACACS+ Server capability to support Device administrator secure authentication, privilege-based access and audit logging Inbuilt utilities for interactive policy simulation and monitor-only mode for assessing the policies before applying to the production network	Tender conditions shall prevail
Vol.2	2719	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#302,5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	Request to please change this as " 0 degree to 45 degree, shall support 0% to 95% noncondensing humidity conditions ".45 degree is a standard for any inhouse deployment and is available with all the leading OEM's.Request to please change this for wider OEM participation.	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	2720	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#302,5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	Request to please change this as " Switch should support minimum of 4K IPv4 hosts or better and 2K IPv6 hosts or better ".This is Layer 2 switch so keeping this higher will increase the solution cost.Request to please relax.	Switch should support minimum of 64K IPv4/32K IPv6 routes or better
Vol.2	2721	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#303,5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Support upto 4K VLANs with jumbo frame handling capability of 13K packet size	Request to please change this as " Support upto 4K VLANs with jumbo frame handling capability of 9K packet size ".9K is standard and available with all the leading OEM's.Request to please relax for wider OEM participation.	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet Size or better
Vol.2	2722	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#303,5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	Request to please change this as " Switch should support minimum of 4K IPv4 routes and 2K IPv6 routes ".This is Layer 2 switch so keeping this higher will increase the solution cost.Request to please relax.	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	2723	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page#303,5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	OEM to OEM architecture differs.Request to please modify this as " Should support Ethernet Ring Protection equivalent offering sub 50-ms protection using ERPS as per ITU-T G.8032/equivalent ".	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	2724	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page-296#(5.5.3.1 Core Router)	Each Router shall have below routed ports - i) 32xSFP+ ports, populated with - 16x10Gbps, 10Km SM Transceivers - 4x10Gbps 40Km SM transceivers - remaining 12xSFP+ should support both 1Gbps and 10Gbps transceivers for future scalability. ii) 12x40Gbps QSFP ports, populated with - 8x40Gbps, 10km SM Transceivers to connect to PoPs - 4x40Gbps Cables/Transceivers (Multimode) required to connect Data Center Appliances as per design requirement..	Requesting the clarity about the ports requirement here,mentioned ports and performance requirements is on very higher side.Understand that 10G SFP+ ports is required but 32 no's is very higher count.Requesting to please give us the clarity of 10G and 40G ports requirements.There is no network layout mentioned as well to understand the overall architecture.Request to please give us some clarity about POP office connectivity.Suggest to keep one aggregation switch per POP to connect over ring with 40Gbps uplink.This is just a suggestion.Core Router can be used centrally in DC to forward traffic with 1G and 10G SFP+ uplink and downlink ports as per requirements.	Each Router shall have below routed ports - i) 32xSFP+ ports, populated with - 24x10Gbps, 10Km SM Transceivers - remaining 8xSFP+ should support both 1Gbps and 10Gbps transceivers for future scalability. ii) 8x40Gbps QSFP ports, populated with - 4x40Gbps Cables/Transceivers (Multimode) required to connect Data Center Appliances as per design requirement.. - remaining 4x40Gbps ready ports for future scalability
Vol.2	2725	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page-296#(5.5.3.1 Core Router)	Should have minimum 32GB RAM	The architecture and technology differs from OEM to OEMs.8GB RAM is sufficient to store the IOS, Configuration files and Log files in HPE router without any degradation of performance because all the features, application and protocols supports from day one. No additional licences are required for upgradation for features and protocols. Request you to please modify this clause as " Should have minimum 8GB RAM ".So that leading OEM can participate.	Should have minimum 16GB RAM
Vol.2	2726	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page-298#(5.5.3.1 Core Router)	NEBS - GR-1089-Core - GR-63-Core	Request to please remove this for wider OEM participation. NEBS (Network Equipment-Building System) describes the environment of a typical United States only .Request to please relax.	Clause deleted

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Vol.2	2727	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page-298#(5.5.3.1 Core Router)	Segment routing for IPv4 Segment routing for IPv6 Topology-Independent Loop-Free Alternate (TI-LFA) for faster convergence Remote-LFA Segment Routing (SR)-Any cast Segment Identifier (SID) SR and LDP integration support	This is restrictive and OEM specific terminology and technology. Request to please remove for wider OEM participation.	i) Segment routing for IPv4 ii) Segment routing for IPv6 iii) Topology-Independent Loop-Free iv) Alternate (TI-LFA) for faster convergence v) Remote-LFA
Vol.2	2728	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	Page-298#(5.5.3.1 Core Router)	Router series should be MEF 3.0/2.0 compliant	This is restricted. Request to please remove for wider OEM participation.	Router series should be MEF 3.0/2.0 or equivalent compliant
Vol.2	2729	Hewlett Packard Enterprise	Volume 2: Scope of Work & Technical Specifications	General(Page#3 98)		There is an item mentioned in the BOM- Switches Core and Internet router but there is no specification. Requesting the clarity.	Tender conditions shall prevail
Vol.1	2730	Hewlett Packard Enterprise	Vol-1	27	2.27 Subcontracting	It is request to remove the restrictions on the sub-contracting scope. The Bidder will be fully responsible for completion of all activities as per the RFP even if it has been sub contracted.	Tender conditions shall prevail.
Vol.1	2731	Hewlett Packard Enterprise	Vol-1	49 – 50	4.3 PBG This Performance Bank Guarantee shall be valid up to six (6) months after successful completion of the contract for the total contract duration i.e., 'Go-Live' + 60 months of O&M.	It is requested to clarify that the Bidder can submit Annually renewable BGs as there are challenges in submitting BGs for such long tenure in one go.	Responses related to PBG provided above may be referred.
Vol.3	2732	Hewlett Packard Enterprise	Vol-3	3	1.11 "Effective Date" means the date on which this Contract is signed or Lol is issued by Authority, whichever is earlier and executed by the parties hereto. If this Contract is executed in parts, then the date on which the last of such Contracts is executed shall be construed to be the Effective Date.	It is requested to clarify that the Effective Date shall only be from the execution of the Contract which is a mandatory requirement as per the Process.	Refer SI no 3.12, Addendum-1
Vol.3	2733	Hewlett Packard Enterprise	Vol-3	5	3.2 Obtaining of all statutory and other approvals required for the performance of the Services under this Contract. This may include approvals/clearances, wherever applicable, that may be required for execution of this contract e.g. clearances from Government authorities for importing equipment, exemption of Tax/Duties/Levies, work permits/clearances for Bidder/Bidder's team, etc.	It is requested to clarify that the approvals and clearances required for the project from various departments and state authorities shall be obtained by GSCL. The Vendor can only coordinate and support but the process of seeking approvals and associated costs are to be borne by GSCL. Same has been the process in other Smart City Projects. Kindly also clarify that GSCL has the necessary approvals in place from the concerned departments for the works intended to be contracted under this project.	Refer SI 3.07, Addendum-1 Vol-2: 4.6.4 Miscellaneous: Pt.1, Page-24 need to refer.
Vol.3	2734	Hewlett Packard Enterprise	Vol-3	5	3.4 Furnishing of such other documents as the Authority may specify/ demand.	Kindly provide the exhaustive list of such documents at the RFP stage itself. If such list if not available, it cannot be part of Conditions Precedent.	Refer SI 3.8, Addendum-1
Vol.3	2735	Hewlett Packard Enterprise	Vol-3	15	11 NEW	Please add that : Authority shall be required to obtain and ensure all statutory and departmental permits/approvals required to commence the work that is being contracted under this project, including but not limited to Right of Way etc.	GSCL shall facilitate the SI to obtain all required permits/approvals required to commence the work that is being contracted under this project, including but not limited to Right of Way etc. However, the related charges shall be deposited by the SI to the concerned departments which shall be reimbursed at actual by GSCL.
Vol.3	2736	Hewlett Packard Enterprise	Vol-3	15	12.1 Authority shall make payments to SI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 42 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to SI within 45 days of receipt of invoice(s) and all necessary supporting documents.	It is requested to revise the payment timeline as 30 days from the date of invoice. It is required to list the comprehensive set of documents that need to accompany the Bidder's invoices.	Tender condition shall prevail

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Vol.3	2737	Hewlett Packard Enterprise	Vol-3	18	15.1 b. any breach of any of the terms of SI's did as agreed, the RFP and this Contract by SI 15.3 Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims.	It is requested to delete (b) as remedy for such instance is claim for damages and not indemnity. Kindly add/clarify that the Bidder shall not be liable for any claims related to indirect or consequential losses (as per clause 29.1)	Tender conditions shall prevail
Vol.3	2738	Hewlett Packard Enterprise	Vol-3	19	17.1 The Contract period shall commence from the date of signing of contract or Issuance of Lol, whichever is earlier, and shall remain valid for 60 Months from the date of Go Live of the system 17.2 If the delay occurs due to circumstances beyond control of SI such as strikes, lockouts, fire, accident, defective materials, delay in approvals or any cause whatsoever beyond the reasonable control of SI, a reasonable extension of time shall be granted by the Authority.	Kindly delete reference to LOI as contract term can commence only after execution of the Contract by both Parties. Kindly clarify that if the Go Live gets delayed for reasons beyond Bidder's control, the Support period of 60 days will be reduced with an equivalent time. The Warranty from OEMs will be for a limited time and would not continue to be valid in the case of large delays in Go Live.	17.1 - Refer sl 3.11 Addendum-1. 17.2 - Tender conditions shall prevail.
Vol.3	2739	Hewlett Packard Enterprise	Vol-3	19	18 Dispute Resolution	Kindly provide for a 3 step internal escalation process instead of directly preferring Arbitration or Conciliation. Clause 45.2 provides for Issue Management Process and works like an escalation process. Kindly clarify that this process needs to be adhered to first before invoking arbitration.	Bidder to note that Clause 45 of Volume III is self explanatory
Vol.3	2740	Hewlett Packard Enterprise	Vol-3	24	28.2 The deduction shall not in any case exceed 10 % of the contract value.	Kindly revise to 10% of the CAPEX payments till Go Live. All delays would be during Go Live phase as SLAs would be applicable during Post Go Live Phase. it would be onerous to impose penalty linked to Total Contract Value.	Tender conditions shall prevail
Vol.3	2741	Hewlett Packard Enterprise	Vol-3	24	29 Limitation of Liability	Kindly clarify that the aggregate liability of the Bidder for all claims and damages arising under this Agreement shall not exceed the Total Contract Value. The clause is currently silent on the aggregate/total liability. The indemnity clause (15.3) clarified of total liability. Points mentioned in separate clauses can lead to confusion. Hence the ask.	Refer SI no 3.01 of Amendment 01
Vol.3	2742	Hewlett Packard Enterprise	Vol-3	32	43 43.3 Maximum Penalty applicable for any quarter shall not exceed 30% of the 'applicable fees' for the respective quarter. 43.4. Three consecutive quarterly deductions of 30 % of the applicable fee on account of any reasons shall be deemed to be an event of default and termination as per Clause 35 of this Section of RFP respectively and the consequences as provided in Clause 36 of this section of RFP shall follow.	Kindly revise the maximum cap to 10% of the quarterly fees.	Refer SI 3.16 of Addendum-1
Vol.2	2743	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 190 Pt. -2	Next generation platform should encompass log, packet and end point data with added context and threat Intelligence. Should provide complete network visibility through deep packet inspection high speed packet capture and analysis.	Next generation platform should encompass Big data analyses, log investigation, Advanced data platform and real time correlation.	Tender conditions shall prevail
Vol.2	2744	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 190 Pt. -3	SIEM for Logs and deep packet inspection can be from different OEM but should be manageable from same console	SIEM and Log management must be from same OEM and must have single console	SIEM for Logs and deep packet inspection can be from same or different OEM.
Vol.2	2745	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 190 Pt. -4	The solution should be a physical appliance form factor with following components: a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Data Management	The solution should be a Software / physical / Virtual server based including a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Advanced Data Platform	The solution should be a physical appliance form factor with following components: a. Management & Reporting b. Normalization and Indexing c. Correlation Engine d. Data Management/Platform
Vol.2	2746	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 190 Pt. -5	There should be no limitation on number of devices to be supported. Any addition in no. of devices should have no cost impact on department.	There should be no limitation on number of devices to be supported as well flow like Nflow , J flow . Any addition in no. of devices should have no cost impact on department.	Tender conditions shall prevail

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Vol.2	2747	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 191 Pt. -6	The SIEM & Log Monitoring solution should be from a different OEM than the Prevention Security solutions like F/W, IPS, HIPS, AV, DLP, and Encryption.	The SIEM & Log Monitoring solution should be from a different OEM than solutions like F/W, IPS, HIPS, AV, DLP, GRC, Packet capture, NBAD, Token solutions	Tender conditions shall prevail
Vol.2	2748	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 191 Pt. -8	Real time contextual information should be used at collection/ normalization layer and be available at correlation layer where any events are matched during correlation rule processing. In addition , solution must provide contextual Hub at investigation layer for all relevant contextual awareness data regarding alerts/incidents available for any information asset like IP/Device etc.	Real time contextual information should be used at collection/normalization layer and also be available at correlation layer where any events are matched during correlation rule processing.	Tender conditions shall prevail
Vol.2	2749	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 191 Pt. -10	A solution should support minimum 10,000 EPS and scalable up to 20,000 EPS.	A solution should support minimum 10,000 Sustained/20000 Peak EPS as three tired solution and scalable up to 30,000 EPS.	Tender conditions shall prevail
Vol.2	2750	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 191 Pt. -11	Correlation Engine appliance should be consolidated in a purpose build appliance and should handle 20,000 EPS.	Solution must be sized for 20000 Peak EPS on physical or Virtual enviroment	Solution must be sized for 20000 EPS on physical or Virtual environment
Vol.2	2751	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 191 Pt. -13	The solution should be storing both raw logs as well as normalized logs. The same should be made available for analysis and report ing. The proposed solution should be sized to provide both raw logs and normalized logs with minimum 20 TB of storage.	The solution should be storing both raw logs as well as normalized logs at Log management layer which must support minimum 36TB storage and should have its own dash-boards , reports and search engine.	Tender conditions shall prevail
Vol.2	2752	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -14	The monitoring should be cross device and cross vendor and be both out of the box and scalable to cover additional devices and applications as required	The monitoring should be cross device and cross vendor and be both out of the box and scalable to cover additional devices and applications as required. It must have agents for applications in case Application does not natively generate logs. It must not be limited to monitoring audit logs but agent must also monitor /block any attack on applications like SQL injection, XSS etc.	Tender conditions shall prevail
Vol.2	2753	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -16	Should be able to provide complete packet-by-packet details pertaining to one or more session of interest including Session replay, page reconstr ruct ion, image views, artefact & raw packet and object extractions.	Should be able to provide complete Log-by-Log details pertaining Collected Logs	Clause deleted
Vol.2	2754	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -17	Should be able to filter the captured packets based on layer-2 to layer-7 header information.	Should be able to filter unwanted logs at collection layer as well as log management layer to ensure only meaningful logs for analysis	Clause deleted
Vol.2	2755	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -18	Should provide comprehensive deep packet inspection (DPI) to classify protocols & application.	Should provide comprehensive application security for web applications. Solution must come with application run time and dynamic testing tool , preferably from same OEM and should have dashboard in SIEM	Tender conditions shall prevail
Vol.2	2756	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -19	The proposed solution must be able to provide the complete platform to perform Network forensics solutions.	The proposed solution must be able to provide the complete platform for SOC integrating with all key components which may be from different OEM	The proposed solution must be able to provide the complete platform to perform Network forensics solutions or SOC integration with all key components which may be from different OEM.
Vol.2	2757	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -20	The solution must be able to detect malicious payload in network traffic • Detect and reconstruct files back to its original type	Request you to kindly Remove this clause	Clause deleted
Vol.2	2758	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -21	The solution must have the ability to capture network traffic and import PCAP files using the same infrastructure.	Request you to kindly Remove this clause	Clause deleted
Vol.2	2759	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	Page No # 192 Pt. -22	Bidder should propose separate hardware for SIEM solution.	The solution should be with a clear separation of the collection module, logging module and co-relation module. Log collection module should be in HA at DC must be free of cost software for which hardware will be provided by customer either as VM or Physical	SIEM solution should be dedicated appliance based or software based. In case of software based solution Bidders should include separate dedicated hardware in their proposed SIEM solution meeting the warranty requirement. Details of which should be mentioned in the bill of material.
Vol.2	2760	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	N/A	General Query	As per RFP high availability is required. Will this scenario will be applicable to only DC or both DC and DR.	Only Data Center applicable in this RFP.
Vol.2	2761	Hewlett Packard Enterprise	Vol- 2 5.3.9 SIEM solution	N/A	General Query	What will be the Log retention period.	Log retention period should be 1 year

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Vol.1	2762	Hewlett Packard Enterprise	2.29. Eligible Goods and Services, and OEM Criteria	27	OEM Criteria	ATCS being a important component of the RFP, you are requested to please include suitable OEM criteria of ATCS.	Tender conditions shall prevail.
Vol.1	2763	Hewlett Packard Enterprise	2.29. Eligible Goods and Services, and OEM Criteria	28	The OEM of each product or technology should have valid quality certifications like ISO 9001.	ACTS being a engineering tool, you are requested to onsider CMML3 for Traffic Controller OEM.	Agreed. Bidder to Refer Point 1.03 of Amendment 01. "The OEM of each product or technology should have valid quality certifications like ISO 9001 or CMMI Level 3 or better."
Vol.1	2764	Hewlett Packard Enterprise	3.5. Pre-Qualification Criteria	33	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India .	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also. ATCS being a new technology and Guwahathi having larger no of Juntions , kindly also consider ATCS OEM experience under this clause. Also consider "Adaptive Traffic Singal Control " in place of Traffic signal Control.	Refer to AddendumVI
Vol.1	2765	Hewlett Packard Enterprise	3.5. Pre-Qualification Criteria P	36	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)' Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	On page No 37 of Volume one, International Projects have been made acceptable. Kindly consider Global experience in PQ criteria Also.	Tender conditions shall prevail.
Vol.1	2766	Hewlett Packard Enterprise	3.5. Pre Qualification Criteria	36	Note: 1. Following documentary evidence (Citation, copy of completion / ongoing client certificate and work order/Contract/self-certificate) is required for all project experience from the Sole Bidder/ Consortium member	Kindly consider Certificate signed by the Company Secretary/statutory Auditor/certifying the project details, its value, completion status etc in absence of PO/Completion letter.	Bidder to Refer Point 1.04 of Amendment 01
Vol.1	2767	Hewlett Packard Enterprise	3.6.1 Technical Bid Criteria & Evaluation	40	B2 (Integrated Traffic Management System) : The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System	ATCS and RLVD/ANPR system being two different tchnologies kindlt allocate seprate marking for ATCS and RLVD/ANPR. OR kindly Consider " Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System OR <input type="checkbox"/> RLVD System / ANPR System. ATCS scope of Guwahathi is for 64 Junctions, considering the same please increase the minimum project value to 10 Cr. Also ATCS being a new technology and Guwahathi having larger no of Juntions , kindly also consider ATCS OEM experience under this clause	Refer to Addendum 7 (Sl. No. 21)

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Vol.1	2768	Hewlett Packard Enterprise	3.6.1 Technical Bid Criteria & Evaluation	42	VMS (OEM Criteria)	ATCS being a important and crucial component, please include OEM criteria in Technical evaluation also and allocate suitable marks.	Tender conditions shall prevail.
Vol.1	2769	Hewlett Packard Enterprise	3.6.1 Technical Bid Criteria & Evaluation	44	Proof of Concept (POC)	Pleaseinclude PoC for ATCS solution also using Simulation Tool.	Tender conditions shall prevail.
Vol.1	2770	Hewlett Packard Enterprise	3.6.1 Technical Bid Criteria & Evaluation Page 44	44	Proposed resources (Max. 10 marks)	Please consider ATCS Expert also from Bidder/OEM.	Tender conditions shall prevail.
Vol.2	2771	Hewlett Packard Enterprise	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	208	"Composite Signal Control Strategy" application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	"Composite Signal Control Strategy" being a propriety application from CDAC, you are requested to kindly remove this clause and allow fare chance to all the global technologies.	Clause stands deleted
Vol.2	2772	Hewlett Packard Enterprise	Volume 2 4.6.2 Existing Traffic Signal system	23	The infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems which are proposed and required under the scope of this project. The dismantled infrastructure shall be delivered at the GSCL designated location without damage at no extra cost.	As per RFP, dismantling of existing traffic infrastructure and their shifting to designated ware house location should be done at no extra cost. In the RFP details of these existing traffic signals is not available, so details of existing junctions should be included. Also as this activity involves a lot of expenditure in the form of machinery, manpower and transportation while dismantling the items and their shifting to some designated ware house, you are requested to add this whole activity as a seeparate line item in the Bill of Material.	Tender conditions shall prevail
Vol.2	2773	Hewlett Packard Enterprise	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	N.XII. Make available the network status and report viewing on Web.	This requirement is contradictory with the specification given on s. no. 27 on page 212 of RFP vol. 2 where it asks "Make available the network status and report viewing on the desktop GUI as per RFP". Please clarify.	Clause to be read as Make available the network status and report viewing on the operator console
Vol.2	2774	Hewlett Packard Enterprise	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) & 5.4.1.8	209 & 227	O. Pedestrian Actuated Traffic Control Signals at places where a large number of people cross the road with heavy vehicular traffic (near Schools, Hospitals, Shopping Centers, places of worship and similar other establishments). P. The pelican signals shall be installed on two diagonally opposite corners of the Zebra Crossing and shall be supported with facilities for the pedestrians to actuate traffic signal control. 5.4.1.8 Pedestrian / Pelican Traffic Signal Controller	In the RFP Pedestrian/ Pelican Traffic signal controllers are asked for mid block kind of junctions near the hospital, schools etc. but their quantity is not mentioned. Kindly provide the details of pelican junctions and include their quantity with traffic lights,poles etc. in the Bill of Material.	Please read Clause 'O' as Any additional item required to fulfil the functional requirement of pedestrian actuated traffic signals at selected junctions shall be quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement " 'P' Clause stands deleted 5.4.1.8 Cluse stands deleted
Vol.2	2775	Hewlett Packard Enterprise	Volume 2 5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC)	209	Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any thirdparty traffic controller that is UG405 or NTCIP or any other standard communication protocol compliant.	As per RFP Clause "4.6.2 Existing Traffic Signal system" all the existing hardware including traffic lights poles, controller etc. will be dismantled and replaced by the new items. For the ATCS system it needs an ATCS Application and its dedicated type of traffic controller, any other make of traffic controller which is not supported by this ATCS Application can not be controlled through the same. Hence request you to kindly modify the clause as mentioned below: Q. ATSC shall use UG405 or NTCIP or any other standard communication protocol.	Clause to be read as ATSC shall use UG405 or NTCIP or OCIT or any other standard communication protocol. It should also provide the functionality of integration with on-ground hardware of any third-party traffic hardware that is UG405 or NTCIP or any other standard communication protocol compliant.

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Vol.2	2776	Hewlett Packard Enterprise	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.2 Countdown timer : Nos 226	In the RFP specifications of Count Down Timers are not given anywhere, secondly count down timers are suitable for Non Adaptive system only where Cycle time and stage time remains constant. But here the system to be deployed is Adaptive in which signal timing will keep on changing based on real time detection data. Request you to kindly remove this item from the Bill of Material.	Item mentioned in BOM stands deleted
Vol.2	2777	Hewlett Packard Enterprise	Volume 2 12.7 Bill of Material (BOM) Summary/ 1.2. Adaptive Traffic Signal Control System (Signalization)	395	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 226 1.2.10 Pedestrian lamp heads – Walk Man : Nos 226	As per the list of Traffic Junctions given in RFP, it is observed that out of 64 ATCS junctions, 33 junctions are Three Arm, 28 junctions are Four Arm and 3 junctions are Five Arm type. So for all these junction types, 1 primary vertical LED Aspect, 1 primary horizontal LED Aspect and 1 secondary LED aspects should be there for vehicles in each arm for better visibility of lights. Also there should be 2 LED aspects for pedestrians on both sides for each arm. Hence the quantity of some items mentioned in the Bill of Material should be modified as given below: 1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 485 1.2.6 Traffic Light Aspects – Red : Nos 678 1.2.7 Traffic Light Aspects – Amber : Nos 678 1.2.8 Traffic Light Aspects – Green : Nos 1737 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452	1.2.4 Galvanized standard Poles for Traffic Aspects and Pedestrian signals : Nos 452 1.2.6 Traffic Light Aspects – Red : Nos 452 1.2.7 Traffic Light Aspects – Amber : Nos 452 1.2.8 Traffic Light Aspects – Green : Nos 1356 1.2.9 Pedestrian lamp heads – Stop Man : Nos 452 1.2.10 Pedestrian lamp heads – Walk Man : Nos 452
Vol.3	2778	Hewlett Packard Enterprise	Volume 3 43.6.4. City surveillance & ICT Component related performance levels	38	8. Bidder should keep minimum 10% spare at any given point of project execution. Infrastructure equipment should be replaced or repaired after complaint logging from Authority officials Measurement Tool: System generated call log at Helpdesk	ATCS Controllers is of high value item and also has MTBF more than 9 years. Hence 10% is not required. Instead kindly mention Sufficient spare to meet SLA or 10% minimum.	Refer SI 3.18 of Addendum-1
Vol.1	2779	Hewlett Packard Enterprise	Vol 1; Cl. 4.6	51	The Employer will, if requested by the CONTRACTOR, make mobilization advance payments of 10(%) percent of the Awarded Contract Value to the CONTRACTOR to assist in defraying the initial expenses that will necessarily be incurred by the CONTRACTOR for mobilization and design. The Mobilization Advance will be given to the CONTRACTOR with Simple Interest of 10 % (Percent) per annum.	Request for interest free advance.	Response to this query provided above may be referred.

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Vol.3	2780	Hewlett Packard Enterprise	Vol 3; Cl.13	16	<p>Intellectual Property Rights</p> <p>13.1. Retention of Ownership except for the rights expressly granted to the Licensee under this Agreement, the Licensor shall retain all right, title and interest in and to the Licensed Technology, including all worldwide Technology and intellectual property and proprietary rights.</p> <p>13.2. Preservation of Notice Licensee shall not remove, efface or obscure any copyright notices or other proprietary notices or legends from any Licensed Technology or materials provided under this Agreement, and shall reproduce all such notices and legends when incorporating Licensed Technology or materials into any Integrated Products.</p> <p>13.3. SI must ensure that while using any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person/Company. SI shall keep the Authority indemnified against all costs, expenses and liabilities howsoever, arising out any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or violation of any permission/license terms or infringement of any Intellectual Property Rights by SI or SI's Team during the course of performance of the Services. SI's liability is excluded regarding any claim based on any of the following (a) anything Authority provides which is incorporated into the Solution; (b) the Authority's modification of the solution;</p> <p>13.4. Authority shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by SI solely during the performance of Services and for the</p>	we understand this clause is not applicable for Core IPR of any product. Please clarify.	Refer SI 3.13 of Addendum-1
Vol.3	2781	Hewlett Packard Enterprise	Vol 3; Cl.15	18	<p>15. Indemnity</p> <p>15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:</p> <p>a. any negligence or wrongful act or omission by SI or any third party associated with SI in connection with or incidental to this Contract; or</p> <p>b. any breach of any of the terms of SI's bid as agreed, the RFP and this Contract by SI</p> <p>c. any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof</p> <p>15.2. SI shall also indemnify the Authority against any privilege, claim or assertion made by a third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property etc.</p> <p>15.3. Regardless of anything contained (except for SI's liability for bodily injury and/ or damage to tangible and real property for which it is legally liable and its liability for patent and copyright infringement in accordance with the terms of this Agreement) the total liability of SI, is restricted to the total value of the contract and SI is not responsible for any third party claims</p>	<p>1. Limitation of Liability shall be capped at 100% of Contract Value.</p> <p>2. Request you to delete all Carve Out/ Exclusions from Limitation of Liability</p> <p>3. Either party under no legal theory shall have right to claim for consequential losses and damages</p>	Refer SI 3.03, Addendum -01

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Vol.3	2782	Hewlett Packard Enterprise	Vol 3; Cl.22	21	<p>22. Force Majeure</p> <p>22.1. Force Majeure shall not include any events caused due to acts/ omissions of SI resulting in a breach/ contravention of any of the terms of the Contract and/or SI's Bid. It shall also not include any default on the part of SI due to its negligence or failure to implement the stipulated/ proposed precautions, as were required to be taken under the Contract.</p> <p>22.2. The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.</p> <p>22.3. In case of a Force Majeure, all Parties shall endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.</p> <p>22.4. Force Majeure shall not apply to any obligation of the Owner to make payments to the Contractor</p>	<p>Request you to incorporate the following</p> <ul style="list-style-type: none"> • Request to add events beyond the control of either Party or both the Parties. • Right of EOT and price implication • Both the parties shall have termination rights to both the parties for prolonged suspension due to FM conditions for period more than 60 days continuous and / or 90 days cumulative. • In case of termination SI shall be entitled to be paid for work completed and work in progress 	Refer SI 3.02 of Amendment 01
Vol.3	2783	Hewlett Packard Enterprise	Vol 3; Cl.24	22	<p>24. Insurance</p> <p>24.1. The Goods supplied under this Contract shall be comprehensively insured by SI at his own cost, against any loss or damage, for the entire period of the contract. SI shall submit to the Authority, documentary evidence issued by the insurance company, indicating that such insurance has been taken.</p> <p>24.2. SI shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods and also the charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective sites of installation shall also be borne by SI.</p> <p>24.3. SI shall take out and maintain at its own cost, on terms and conditions approved by the Authority, insurance against the risks, and for the coverages, as specified below;</p> <p>a. At the Authority's request, shall provide evidence to the Authority showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.</p> <p>b. Employer's liability and workers' compensation insurance in respect of the Personnel of the Company, in accordance with the relevant provisions of the Applicable Law as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate</p>	<p>SI shall undertake comprehensive insurance cover valid till scheduled completion period, in case of extension of time for reasons not attributable to SI, period of cover shall be extended by SI at the cost of GSCL.</p>	Refer SI 3.04 of Amendment 01

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Vol.3	2784	Hewlett Packard Enterprise	Vol 3; Cl.25	22	<p>25. Transfer of Ownership 25.1. SI must transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide source code, transfer IPR and ownership right of only those solutions which would be customized by bidder for the use of Guwahati Smart City Limited. For any pre-existing work, SI and Guwahati Smart City Limited shall be held jointly responsible and its use in any other project by SI shall be decided on mutual consent. 25.2. Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by the Authority, SI shall deliver to the Authority all Documents provided by or originating from the Authority and all Documents produced by or from or for SI in the course of performing the Services, unless otherwise directed in writing by the Authority at no additional cost. SI shall not, without the prior written consent of the Authority store, copy, distribute or retain any such Documents</p>	IP rights cannot be transferred or assigned in manner to GSCL.	Refer 3.14 of Addendum -1
Vol.3	2785	Hewlett Packard Enterprise	Vol 3; Cl.28	24	<p>28. Liquidated Damages: 28.1. If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week or part thereof of contract value for a milestone/quarter. 28.2. The deduction shall not in any case exceed 10 % of the contract value. 28.3. The Authority may without prejudice to its right to effect recovery by any other method, deduct the amount of liquidated damages from any money belonging to SI in its hands (which includes the Authority's right to claim such amount against SI's Bank Guarantee) or which may become due to SI. Any such recovery or liquidated damages shall not in any way relieve SI from any of its obligations to complete the Work or from any other obligations and liabilities under the Contract. 28.4. Delay not attributable to SI shall be considered for exclusion for the purpose of computing liquidated damages.</p>	<p>1. Request you to cap the overall LD for delay in completion at 5% of the Contract Value. 2. Request you to add the following wordings "Levy of LD shall be sole and exclusive remedy available to GSCL."</p>	Tender conditions shall prevail
Vol.3	2786	Hewlett Packard Enterprise	Vol 3; Cl.29	24	<p>29. Limitation of Liability: Limitation of Bidder's Liability towards the Authority: 29.1. Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. 29.2. Except in case of gross negligence or wilful misconduct on the part of SI or on the part of any person or company acting on behalf of SI in carrying out the Services, SI, with respect to damage caused by SI to Authority's property, shall not be liable to Authority: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to SI hereunder, or (B) the proceeds SI may be entitled to receive from any insurance maintained by SI to cover such a liability, whichever of (A) or (B) is higher. 29.3. This limitation of liability shall not affect SI liability, if any, for damage to Third Parties caused by SI or any person or company acting on behalf of SI in carrying out the Services</p>	<ul style="list-style-type: none"> • Limitation of Liability shall be capped at 100% of Contract Value. • Request you to delete all the Carve Out/ Exclusions from Limitation of Liability • Either party under no legal theory shall have right to claim for consequential losses and damages 	Refer SI 3.01 Addendum -1

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Vol.2	2787	Hewlett Packard Enterprise	Vol 2 4.22. 8.a)Design, Supply, Installation and Commissioning of IT Infrastructure at Data Centre (DC) and ICC	Page no 50	Servers (inclusive of OS) - Application Servers, Database Server, Video Recording Server, Video Management Server, Enterprise Backup Server, Domain Controller, Failover Servers for application and Recording Servers	Scheduled unattended backup using policy-based management for all Server and OS platforms The software should support on-line backup and restore of various applications and Databases The backup software should be capable of having multiple back-up sessions simultaneously The backup software should support different types of backup such as Full back up, Incremental back up, Differential back up, Selective back up, Point in Time back up and Progressive Incremental back up and snapshots The backup software should support different types of user interface such as GUI, Web-based interface	Tender conditions shall prevail
Vol.2	2788	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	171	4. Support add intuitive usability, with an overview dashboard, simplified navigation and more network information.	With this risk visibility dashboard, we see the most offending devices in the group along with the types of unauthorized access attempts, and the percentage of non-compliant devices. All of these with a current snapshot and a time-series historical trend. Operations can set this information to deploy new configurations to the vulnerable devices. Hence Requesting you to please update the clause as follows: "Support add intuitive usability, with an overview dashboard, simplified navigation and more network information and provide out of the box Risk Visibility Dashboards of network infrastructure."	Tender conditions shall prevail
Vol.2	2789	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	172	14. Should be ITIL 2011 compliant in at-least incident, problem, change, knowledge, Service Level, service asset (hardware, software) and configuration management.	Multiple leading Service Management OEMs are listed under Pink Elephant certifications website. This is the most mature way to demonstrate that at least three top IT organizations and for selection of mature IT service management solution. Hence Requesting you to please update the clause as follows: "Should be ITIL 2011 Gold-level certified from PINK ELEPHANT and Axelos on at least 11 or more processes in at-least Incident, Problem, Change, Knowledge, Service Level, Service Asset (hardware, software), Configuration, Service Catalogue and Request Fulfillment, etc. The certification copy to be submitted."	Tender conditions shall prevail
Vol.2	2790	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	172	20. Should be able to provide secured windows-based consoles /secured web-based consoles for accessibility to EMS.	EMS software touches the entire infrastructure and should be highly secured to ensure no data leakage or security breach from from software application. ISO 27034-1 standard helps organizations integrate security controls in the software through their software development cycle, by defining security frameworks & vulnerability management processes. This certification protects customer assets from potential cyber breaches & security threats while complying with the Application security standards. Hence requesting you to please update the clause as follows: "Should be able to provide secured windows-based consoles /secured web-based consoles for accessibility to EMS and to ensure the proposed software is secure, it should have ISO 27034 certification from a verification or certification agency which has global recognition."	Tender conditions shall prevail

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Vol.2	2791	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	173	38. The tool shall integrate network, server and database performance information and alarms in a single console and provide a unified reporting interface for network and system components. The current performance state of the entire network and system infrastructure shall be visible in an integrated console.	EMS consists of multiple components. Having all these components from the same OEM will ensure that the components are pre-integrated and adequately tested and hence time to value realization is quick and issues of integration does not arise. Hence Requesting you to please update the clause as follows: "The proposed EMS solution should be modular and scalable solution from single OEM (i.e. all Network Monitoring, server Monitoring including application and database monitoring and Service Management tools should be from single OEM) and integrate network, server and database performance information and alarms in a single console to provide a unified reporting interface for network and system components to provide comprehensive fault management, performance management, traffic analysis and business service management, IT service desk\ help desk \trouble ticketing system & SLA monitoring functionality. The current performance state of the entire network and system infrastructure shall be visible in an integrated console"	Tender conditions shall prevail
Vol.2	2792	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	174	48. Provide performance threshold configuration for all the agents/monitors to be done from a central GUI based console that provide a common look and feel across various platforms in the enterprise. These agents/monitors could then dynamically reconfigure them to use these threshold profiles they receive.	Agentless server monitoring is performed over protocols like WMI, Netbios, SSH, Telnet, etc. Opening such ports in infra is not secure, whereas Agent-based monitoring provides secure HTTPS communication between servers and management layer, hence specifying Agent-based monitoring is highly recommended. Please update the clause as follows: "The proposed server monitorign module must be agent-based to provide performance threshold configuration for all the agents/monitors to be done from a central GUI based console that provide a common look and feel across various platforms in the enterprise. These agents/monitors could then dynamically reconfigure them to use these threshold profiles they receive."	Tender conditions shall prevail
Vol.2	2793	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	175	67. Should be able to receive and process SNMP traps from infrastructure components such as router, switch, servers etc.	SNMP is recommended monitoring protocol for Network infrastructure. Servers should be monitored via Agent-based model for higher security. Enabling SNMP on servers creates operational overhead on servers and is not secure. Hence requesting you to please update the clause as follows: "Should be able to receive and process SNMP traps from infrastructure components such as router, switch, etc."	Tender conditions shall prevail
Vol.2	2794	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	180	General Suggestion	Solution having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as NMS/ITSM is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from NMS/ITSM. This warrants an industry-standard solution. Hence requesting you to please include the following clause: "EMS/NMS OEM must be an industry standard, enterprise grade solution and shall be in the present in Gartner's MQ reports for NPMD and ITSM for last two years."	Tender conditions shall prevail

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Vol.2	2795	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	180	General Suggestion	To ensure that the proposed EMS is proven at the scalability required for the said project and is operational in the Indian Public Sector space and thereby avoid risk of being a test bed for solutions not known to scale up to the requisite levels. Hence requesting you to please include the following clause: "The proposed EMS/NMS solution MUST have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 10,000+ network nodes in each of such deployments. Customer names, solution details and OEM undertaking needs to be provided at the time of bidding."	Tender conditions shall prevail
Vol.2	2796	Hewlett Packard Enterprise	RFP Volume 2; 5.3.4 Network Management System / Enterprises Management System (NMS/EMS)	180	136. The OEM should be available in India Market for last 5 years.	To ensure the selection of mature and reliable OEM in Indian Industry, requesting you to please update the clause as follows: "The OEM should have their RnD group, technical support group, sales and implementation services running based out in India for at least 5 years from the date of RFP release."	Tender conditions shall prevail
Vol.1	2797	Interlace India Pvt. Ltd.	Vol 1	Page 34	A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. <input type="checkbox"/> In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement	We request you to kindly amend the point as A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. <input type="checkbox"/> In case of consortium: o Lead Bidder should have minimum 85% of the Average Annual Turnover requirement o Each consortium member should have minimum 15% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement	Tender conditions shall prevail.
Vol.2	2798	Interlace India Pvt. Ltd.	Page 83, 4 Port POE switch, clause no. 12	Page 83, 4 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports Request to rephrase as having MACSEC as an optional feature will decrease the degree of security in the field network and hence it should be a mandatory feature. On the other hand IPSEC tunnels might induce substantial latency in transmitting video traffic and hence should be avoided in the field network.	Tender Conditions shall prevail
Vol.2	2799	Interlace India Pvt. Ltd.	Page 84, 4 Port POE switch, clause no. 13	Page 84, 4 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt. Request to rephrase the clause as the CISCO industrial grade switches do not have support for IEEE 802.3bt standard as of now. It is a new standard released around mid of 2018 and it takes a substantial amount of time to get the models certified on a specified standard. Furthermore, the major and leading OEMs take some decent time to assess any new standard and understand its usability and benefits before going for it.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at

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Vol.2	2800	Interlace India Pvt. Ltd.	Page 85, 8 Port POE switch, clause no. 5	Page 85, 8 Port POE switch, clause no. 5	8 x 10/100/1000 (PoE+) + 4 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	8 x 10/100/1000 (PoE+ on all the ports) + 2 x combo or dedicated Gigabit SFP, Switch should support MSA Compliant Rugged SFPs The requirement to have 4 uplink ports is a very high requirement and will unnecessarily increase the overall budget of the project as the OEMs will be forced to position high end models. Further, this will provide an undue advantage to a single OEM.	Tender conditions shall prevail
Vol.2	2801	Interlace India Pvt. Ltd.	Page 85, 8 Port POE switch, clause no. 7	Page 85, 8 Port POE switch, clause no. 7	PoE Budget: 150 W for better	PoE Budget: 240 W or higher In order to align the requirement with the above query, the overall POE budget of the switch should be increased to atleast 240W with 30W POE budget per poort (8 * 30W=240W)	This is minimum requirement, bidder can propose better solutions
Vol.2	2802	Interlace India Pvt. Ltd.	Page 85, 8 Port POE switch, clause no. 8	Page 85, 8 Port POE switch, clause no. 8	Forwarding performance (64-byte packet size): 14 Mbps or better Switching capacity: 24 Gbps or better	Forwarding performance (64-byte packet size): 22 Mpps or better Switching capacity: 20 Gbps or better In order to align the requirement with the above query, the forwarding capacity and the switching bandwidth should also be increased to meet the line rate requirement.	Tender conditions shall prevail
Vol.2	2803	Interlace India Pvt. Ltd.	Page 86, 8 Port POE switch, clause no. 12	Page 86, 8 Port POE switch, clause no. 12	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports Request to rephrase as having MACSEC as an optional ferature will decrease the degree of security in the field network and hence it should be a mandatory feature. On the other hand IPSEC tunnels might induce substantial lateny in transmitting video traffic and hence should be avoided in the field network.	Tender Conditions shall prevail
Vol.2	2804	Interlace India Pvt. Ltd.	Page 86, 8 Port POE switch, clause no. 13	Page 86, 8 Port POE switch, clause no. 13	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt. Request to rephrase the clausue as the CISCO industrial grade switches do not have support for IEEE 802.3bt standard as of now. It is a new standard released around mid of 2018 and it takes a substantial mount of time to get the models certified on a specified standard. Furthermore, the major and leading OEMs take some decent time to assess any new standard and understand its usability and benefits before going for it.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at

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Vol.2	2805	Interlace India Pvt. Ltd.	Pages 87-89 (5.1.3.8 Online UPS for Field Locations)	Pages 87-89 (5.1.3.8 Online UPS for Field Locations)	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better	As per industry standards, UPS operating temperature is in the range 0°C to (+)40 °C and storage temperature range is (-)10°C to (+)70°C. This is also in compliance with Guwahati City Climatic conditions which is a humid subtropical climate with average annual temperature of 22.2 °C and average high of 29.5°C , with extremes ranging from 40°C (high) to 2.0 °C (low). In view of this, Operating Temperature range may be fixed as 0°C to (+)45°C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	2806	Interlace India Pvt. Ltd.	Page 136, Internet Switch - L3, clause no. 6	Page 136, Internet Switch - L3, clause no. 6	Routing Protocol: Static Routing (IPv4 and IPv6)	Routing Protocol: Static Routing (IPv4 and IPv6) and Dynamic Routing with support for OSPF and RIP from Day 1 with support for BGP if needed in the future. An internet switch with only capability to run static routes is not going to be a good design. Hence, we strongly recommend to position a switch that should be capable of running dynamic routing protocols.	Tender conditions shall prevail
Vol.2	2807	Interlace India Pvt. Ltd.	Page 169, OOB Switch, clause no. 7	Page 169, OOB Switch, clause no. 7	Should have redundant Power Supply.	Should support redundant and field-replaceable Power Supply. It is highly recommended to have a field-replaceable power-supply on the switches to ensure that the PSUs can be changed on the field if it goes faulty. It is not possible in case of an internal power supply and the whole box needs to change even if the problem lies in the PSU.	Should support redundant and field-replaceable Power Supply.
Vol.2	2808	Interlace India Pvt. Ltd.	Page 169, OOB Switch, clause no. 11	Page 169, OOB Switch, clause no. 11	Support for 8,000 or more MAC addresses	Support for 16,000 or more MAC addresses The MAC address scale should be increased to ensure that the OEMs and the bidders position right set of devices and do not underquote.	Tender conditions shall prevail
Vol.2	2809	Interlace India Pvt. Ltd.	Page 169, OOB Switch, clause no. 15	Page 169, OOB Switch, clause no. 15	Static IP routing	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1 Static routing enhances the admin overhead even with minimal changes in the network. Hence, to avoid doing manual configs of routes all the time and on all the devices, it is recommended to run dynamic routing protocols to avoid the manual work.	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1
Vol.2	2810	Interlace India Pvt. Ltd.	Page 170, OOB Switch, clause no. 20	Page 170, OOB Switch, clause no. 20	Must support IEEE 802.1Qbb Priority based Flow Control (PFC)	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control Priority based flow control is a mechanism which is being used by only a single OEM on the campus layer switches. Hence, it becomes very restrictive for other OEMs to participate and thus we are recommending to use more generic terms which can provide similar functionality to allow the other major OEMs to participate in the bid.	Must support IEEE 802.1Qbb Priority based Flow Control (PFC) or egress priority queues for class based traffic control
Vol.2	2811	Interlace India Pvt. Ltd.	Page 166, Spine & Leaf Switch, clause no. 9	Page 166, Spine & Leaf Switch, clause no. 9	Support for at least 4000 VLANs	Support for at least 3900 VLANs Rrequest to rephrase for more OEM participation	Support for at least 4000 VLANs including reserved VLANs (if any)

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Vol.2	2812	Interlace India Pvt. Ltd.	Page 166, Spine& Leaf Switch, clause no. 11	Page 166, Spine& Leaf Switch, clause no. 11	Support for 200,000 or more MAC addresses	Support for 90,000 or more MAC addresses The requirement is way too high and is highly restrictive in nature. This will make a lot of major OEMs non-compliant leading to a single OEM qualifying in the bid which will surely not be a desired condition. Further , the DC switches will never have the requirement to handle so much of MAC addresses.	Support for 40,000 or more MAC addresses
Vol.2	2813	Interlace India Pvt. Ltd.	Page no-163, Point No-7 Sec - b	Page no-163, Point No-7 Sec - b	Both Internal Firewall and External Firewall Should be from Different OEMs	This is a Old Concept as Now all Oems are providing NGFW & in NGFW both the firewall SYNC with very Easily & their IOCs are also same so less time to react in any emergency situation & All the logs and threat data are in same format So less Complexity , future scalability is very ease . This is a very old belief that separate vendor product usage on different layers can provide a higher degree of security. In the current scenario, most of the security OEMs have a very sophisticated and highly advanced R&D wings which provide a complete view of the various potential threats surfacing on the internet. Thus the need to have different OEM product at different layers does not hold good anymore. Rather, different OEM products result in inducing integration challenges and blamegame during any issues. It is strongly recommended to provide a single OEM product to avoid such unwanted circumstances.	Tender conditions shall prevail
Vol.2	2814	Interlace India Pvt. Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Page no-180, Intranet Firewall with IPS, Clause No-1.4	Firewall must support 400K of new connections/sec	Firewall must support 300K of new connections/sec with Application Visibility & control for DPI New connection is directly proportional to the concurrent maximum connection and is 1% of the total maximum session/connection. 400K is a very high number and needs to be lowered down in between 200 to 350 with Application Visibility & control for DPI	Firewall must support 250K of new connections/sec
Vol.2	2815	Interlace India Pvt. Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Page no-180, Intranet Firewall with IPS, Clause No-1.5	Support of at least deliver 10 Gbps IPsec VPN throughput)	Request to Delete Since this is Intranet there will be no direct internet termination and hence VPN will not be terminated here. This this clause needs to be removed.	The device should support 1000 SSL VPN clients from day-1
Vol.2	2816	Interlace India Pvt. Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.6	Page no-180, Intranet Firewall with IPS, Clause No-1.6	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 6 Gbps. SSL/TLS traffic mix which needs to be decrypted is in range of 25% to 30%. Thus this needs to be increased to at least 6Gbps.	Clause deleted
Vol.2	2817	Interlace India Pvt. Ltd.	Page no-180, Intranet Firewall with IPS, Clause No-1.7	Page no-180, Intranet Firewall with IPS, Clause No-1.7	No limitation for client connecting using SSL VPN	Request to Delete Since this is Intranet there will be no direct internet termination and hence VPN will not be terminated here. Thus this clause need to be removed.	The device should support 1000 SSL VPN clients from day-1
Vol.2	2818	Interlace India Pvt. Ltd.	Page no-181, Intranet Firewall with IPS, Clause No-2.1	Page no-181, Intranet Firewall with IPS, Clause No-2.1	The Firewall should have Multi core processor-based/ASIC-based security architecture to process and mitigate day-to-day threats.	The Firewall should have Multi core processor and non-ASIC based security architecture to process and mitigate day-to-day threats. The proposed solution shouldn't use a proprietary ASIC hardware for any kind of performance improvement. If option to disable ASIC is there than OEM must Submit the performance numbers in publicly available datasheet which is Mandatory	Tender conditions shall prevail

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Vol.2	2819	Interlace India Pvt. Ltd.	Page no-181, Intranet Firewall with IPS, Clause No-2.7	Page no-181, Intranet Firewall with IPS, Clause No-2.7	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	Request to Delete Virtual context/VDOM/virtual route table are used in case of overlapping subnets which should be solved at the network layer or at firewall using VRF's. SDWAN is a routing capability and not at all a firewall function. Thus needs to be removed.	i) Firewall should have minimum 10 virtual contexts/VDOM/Virtual Firewall. The clause - "ii) Firewall should be SD-WAN ready" to be considered as deleted.
Vol.2	2820	Interlace India Pvt. Ltd.	Page no-181, Intranet Firewall with IPS, Clause No-2.8	Page no-181, Intranet Firewall with IPS, Clause No-2.8	The firewall shall support proxy of services, which terminate connections at the firewall and make separate connections with each of the communicating hosts, to enforce protocol validation and to restrict the allowed parameters for each protocol.	Request to Delete The ask is for a firewall + IPS and not a proxy solution. Thus needs to be removed	Clause deleted
Vol.2	2821	Interlace India Pvt. Ltd.	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Page no-182, Intranet Firewall with IPS, Clause No-2.11	Management or Controller must monitor the Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete Specific to an OEM. This is an NMS capability and needs to be removed	Clause deleted
Vol.2	2822	Interlace India Pvt. Ltd.	Page no-182, Intranet Firewall with IPS, Clause No-4.1	Page no-182, Intranet Firewall with IPS, Clause No-4.1	The firewall must include support for the following high availability feature. Active-Active and Active-Standby · Stateful failover including VPN connections	The firewall must include support for the following high availability feature. Active-Active OR Active-Standby · Stateful failover including VPN connections. Active-Active cluster ensures that both firewalls can be deployed in a single cluster and no manual traffic segregation is carried out by administrator	Tender conditions shall prevail
Vol.2	2823	Interlace India Pvt. Ltd.	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Page no-183, Intranet Firewall with IPS, Clause No-5.2	Network statistics, including continuous performance monitoring of jitters, latency, and packet loss for all network paths/ link utilization.	Request to Delete Specific to an OEM. This is a NMS Future and needs to be removed	Clause deleted
Vol.2	2824	Interlace India Pvt. Ltd.	Page no-183, Intranet Firewall with IPS, Clause No-5.6	Page no-183, Intranet Firewall with IPS, Clause No-5.6	The Solution MUST provide following reports of Individual Link Quality/Virtual Link Quality on daily, weekly, monthly etc.	Request to Delete Specific to an OEM. This is a NMS Future and needs to be removed	Clause deleted
Vol.2	2825	Interlace India Pvt. Ltd.	Page no-185, Next generation Firewall , Clause No 22	Page no-185, Next generation Firewall , Clause No 22	Proposed appliance should also provide Reputation- and category based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 100 categories and more than 280+ million URL's as higher number of URL's and categories ensures that there is a wide coverage and very few uncategorized URL's are there which require manual policy creation. Hence this numbers needs to be increased.	Tender conditions shall prevail
Vol.2	2826	Interlace India Pvt. Ltd.	Page No. 188, Load Balancer with WAF, Clause No 2	Page No. 188, Load Balancer with WAF, Clause No 2	Minimum 4 nos. of 10 Gig Ethernet ports with required SFP+ multimode transceivers and separate port for management The appliance should have minimum 20 Gbps of Layer 7 throughput, 10 Gbps of SSL throughput, 20K SSL TPS (RSA 2K), 14K ECC TPS (ECDSA P256)	Minimum 20 x 10 GE SFP+ ports Supported (Bidder to populate appropriate SFP's as per the Solution requirement). The appliance should have minimum 30 Gbps of Layer 7 throughput and scalable upto 80 Gbps, 20 Gbps of SSL throughput, 30K SSL TPS (RSA 2K), 20K ECC TPS (EC- P256) Memory : 32 GB from Day 1 and scalable upto 256 GB	Tender conditions shall prevail
Vol.2	2827	Interlace India Pvt. Ltd.	Page No. 189, Load Balancer with WAF, Clause No 9	Page No. 189, Load Balancer with WAF, Clause No 9	Minimum 10 virtual instances/ virtual routing domains with additional software license on same platform. The proposed solution shall have capability to dedicate hardware resources including CPU, memory, network. Bidder may propose alternate solution to meet the desired requirement of resource allocation.	Minimum 5 virtual instances/ virtual routing domains from Day 1 which should be scalable to 30 virtual instances for future use. WAF should support Virtualization that virtualizes the device resources—including CPU, memory, network, management, operating system and acceleration resources.	Minimum 5 virtual instances/ virtual routing domains from Day 1 on the same platform. WAF should support Virtualization that virtualizes the device resources.

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Vol.2	2828	Interlace India Pvt. Ltd.	Load Balancer with WAF	Load Balancer with WAF	New Clause Request	<p>Suggested Clause :</p> <p>a) OEM should be present in Gartner Magic quadrant in the latest WAF report and the proposed Web Application Firewall should be ICASA certified. B) OEM should have direct OEM TAC and R&D facility based in INDIA. C) OEM should have presence in INDIA for more than 15 years d) OEM should have atleast 5 References in the Government / BFSI / PSU's in the Last 3 Years for the proposed Technology</p> <p>Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on+E41 hundreds of millions of URLs in more than 50 categories</p>	Tender conditions shall prevail
Vol.2	2829	Interlace India Pvt. Ltd.	page No. 198, Storage Specifications	page No. 198, Storage Specifications	<p>a) Storage Solution with NSPoF (No single point of failure) Architecture.</p> <p>The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12 Gbps SAS Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).</p>	<p>Storage Solution with NSPoF (No single point of failure) Architecture. The solution should be scale out architecture supporting at least 24 Controllers/Storage nodes. Each Storage controller/Node should have 128 GB DRAM/Cache and should not host more than 650 TB RAW capacity. Overall Solution should be scalable to provide Single namespace >70 PB.</p> <p>The architecture should allow modular upgrades of hardware and software for investment protection. The system must support 12Gbps SAS/SSD Disk Drives (Latest Drive interface) and SATA/NL-SAS Disk Drives (latest Drive interface).</p> <p>Request to include more details w.r.t controllers and their scalability.</p>	Refer to addendum XII
Vol.2	2830	Interlace India Pvt. Ltd.	page No. 199, Storage Specifications	page No. 199, Storage Specifications	Storage should support automated tiering feature	<p>To be removed</p> <p>Tiering feature is not supported by major SDS vendor. Also, this solution being required primarily for video surveillance concept of tiering does not imply.</p>	h) Storage should support automated tiering feature or flash/SSD cache
Vol.2	2831	Interlace India Pvt. Ltd.	page No. 200, Storage Specifications	page No. 200, Storage Specifications	Should have minimum of 8x10/40 Gbe or 8x16Gb FC Host ports	<p>Each controller/Node Should have minimum of 4 *25 Gbe or 4x32Gb FC Host ports</p> <p>Request to include ports requirement per controller level since it is not clear the number of Nodes bidders might be requiring to provide 9PB of usable capacity. With current specification, the port counts would be very less and overall solution performance would be degraded.</p>	Should have minimum of 4x40 Gbps Ethernet or 8x16Gb FC or 4x32Gbps FC ports. OR Bidder may proposed alternate solution to meet the desired bandwidth requirement.
Vol.2	2832	Interlace India Pvt. Ltd.	Page No. 202, Hyper Converged Infrastructure (HCI)	Page No. 202, Hyper Converged Infrastructure (HCI)	HCI Solution should provide usable storage (without considering deduplication & compression) capacity of 100TB using Enterprise hot swappable SSD drives.	<p>HCI Solution should provide usable storage (without considering deduplication, compression, erasure coding etc.) capacity of 100TB using Enterprise hot swappable SSD drives. Solution should have 1 copy of the data.</p> <p>Request to add erasure coding since it is also a type of data saving technique. Also, request to define the usable capacity should be achieved having how many Redundant copies.</p>	HCI Solution should provide usable storage capacity of 100TB using Enterprise hot swappable SSD drives.

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Vol.2	2833	Interlace India Pvt. Ltd.	L2 Switch for POP	L2 Switch for POP	Change Request	<p>Existing specs are for Layer 2 Switch and needs to be replaced with a Layer 3 Switch/Router</p> <p>Since the DWDM devcies are purely Layer 1 in nature which transmits multiple Lambdas over a single fiber strand , there is an absolute necessity to have a Layer 3 Switch/Router in each of the POP locations to offer the L3-L7 services on top of the DWDM based fiber backbone network. Hence we are strongly recommending to augment the current Layer 2 switch specifications with additional Layer 3 specs which will be needed to achieve the city backbone network solution. An ideal solution would be to have a Switch/Router which will support additional Layer 3 features like MPLS, Segment Routing, MPLS-TE, QOS, VRF, L3VPN , Dynamic routing protocols like OSPF, IS-IS and BGP.</p>	<p>2. Switch Type-</p> <p>i) Layer 3 Switching/Routing</p> <p>ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing.</p> <p>iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support</p> <p>iv) Segment Routing for IPv4 and IPv6, TI-LFA</p> <p>v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ</p> <p>"Any other Hardware or Software required to meet the RFP requirement "</p>
Vol.2	2834	Interlace India Pvt. Ltd.	Page No. 299, DWDM/OTN, Clause No. 1	Page No. 299, DWDM/OTN, Clause No. 1	The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.The offered equipment shall have 400G OTN cross connect capacity with licenses included at ODU0/ODUFlex Non-blocking cross-connect level based solution requirements.	<p>The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards.</p> <p>Request to remove 400G OTN cross connect as this will increase the cost of solution and OTN circuits will not be required. OTN is relevant only when you have multiple type of bandwidth like STM,E1 ,DS3 and you need to wrap in to one OTU frame.Here no such requirement is there so request to remove this OTN requirement</p>	Refer to Addendum VII (sl no 17)
Vol.2	2835	Interlace India Pvt. Ltd.	Page No. 299, DWDM/OTN, Clause No. 3	Page No. 299, DWDM/OTN, Clause No. 3	Current requirement is one 100G lamda each in east and west direction link. But solution should be scalable for the Nx100G by adding MUX/DMUX & line cards as per future requirement.	The Trunk side can be 10G/100G but the client side will be 1G/10G. Request to share the trunk and Line side details.	Refer to Addendum VII (sl no 17)
Vol.2	2836	Interlace India Pvt. Ltd.	Page No. 299, DWDM/OTN, Clause No. 5	Page No. 299, DWDM/OTN, Clause No. 5	The system must support 1+1 Line side protection. Both 100G ports shall not be on the same card.100G ports shall not be on the same card	<p>Request to Delete</p> <p>This is more towards OTN requirements. DWDM Lambda protection is usually done using 1+0,1+1,1+1+R kind of protection. Since city is going for IP/MPLS architecture the protection can be done on IP/MPLS and restoration can be done on DWDM utilising best of both.This will also help in reducing the cost of network.</p>	Refer to Addendum VII (sl no 17)
Vol.2	2837	Interlace India Pvt. Ltd.	Page No. 299, DWDM/OTN, Clause No. 6	Page No. 299, DWDM/OTN, Clause No. 6	The offered system should be equipped with min. 2X 100G Port(Each 100G port should be on different modular card) having following configuration flexibility on each modules for optimal usage: Configurable as 10x10G clients & 1x100G Line. Client Ports should support ODUFlux/ODU0, ODU1, FC,1G/10GE. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."	<p>Configurable as 10x10G clients & 1x100G Line. The ports shall support Short/Long haul applications providing flexibility to configure interfaces."</p> <p>Pls remove ODUFlux/ODU0 on client port as DWDM will be getting 10G/1G from router/switch and ODU flux will not be required. With change of technology and growth of bandwidth kindly allow 2x100G on same card..</p>	Refer to Addendum VII (sl no 17)
Vol.2	2838	Interlace India Pvt. Ltd.	Page No. 300, DWDM/OTN, Clause No. 14	Page No. 300, DWDM/OTN, Clause No. 14	The offered management system should support North Bound Interface - CORBA as per TMF814 V3.0 for integration towards OSS/ umbrella management system.	<p>Pls allow Rest conf and API integration also.</p> <p>Request to rephrase as this will make the overall solution much more scalable, agile and sustainable over the years.</p>	Refer to Addendum VII (sl no 17)
Vol.2	2839	Interlace India Pvt. Ltd.	Page No. 298, Core Router, Clause No. 62	Page No. 298, Core Router, Clause No. 62	FIPS-140-2	<p>Request to delete</p> <p>All the OEMs do not participate in all certifications and hence such certifications should be kept as optional to increase the participation from majority of the OEMs</p>	FIPS-140-2 or equivalent.

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Vol.2	2840	Interlace India Pvt. Ltd.	Page No. 298, Core Router, Clause No. 65	Page No. 298, Core Router, Clause No. 65	FCC Part 15 Class A	Request to delete All the OEMs do not participate in all certifications and hence such certifications should be kept as optional to increase the participation from majority of the OEMs	FCC Part 15 Class A or equivalent.
Vol.2	2841	Interlace India Pvt. Ltd.	5.4.2.8 Online UPS for Field Locations (ITMS Crossing) (page 247 & 248)	5.4.2.8 Online UPS for Field Locations (ITMS Crossing) (page 247 & 248)	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+)70 Degree C or better	As per industry standards, UPS operating temperature is in the range 0°C to (+)40 °C and storage temperature range is (-)10°C to (+)70°C. This is also in compliance with Guwahati City Climatic conditions which is a humid subtropical climate with average annual temperature of 22.2 °C and average high of 29.5°C , with extremes ranging from 40°C (high) to 2.0 °C (low). In view of this, Operating Temperature range may be fixed as 0°C to (+)45°C	15. General Operating Temperature & Humidity Temp.: (-)10 Degree C to (+) 55 Degree C or better
Vol.2	2842	Interlace India Pvt. Ltd.	4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever (Page 36)	4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever (Page 36)	7. The Junction Box for UPS with Battery bank needs to be considered separately.	The Bill of Material (BOM) Summary (Page 394-400) does not include separate Junction Box for UPS & Battery Bank; kindly include in BoM the following: 137 nos. dedicated Junction Box for 2 KVA Online UPS for Field Locations (ITMS Crossing) and 757 nos. dedicated Junction Box for 1 KVA Online UPS for Field Locations (CCTV Cameras)	Deleted the clause no. 4.14 Sr, No. 7. The Junction Box for UPS with Battery bank needs to be considered separately. Bidder can Propose the Single Junction box that can be sufficient to house all power equipments, battery and control/networking unit in a single box.
Vol.2	2843	Interlace India Pvt. Ltd.	5.2.12 UPS 50 KVA at ICCCL (page 148 & 149) and 5.2.16 Diesel Generator Set (DG) 75 KVA - ICCCL (Page 150)	5.2.12 UPS 50 KVA at ICCCL (page 148 & 149) and 5.2.16 Diesel Generator Set (DG) 75 KVA - ICCCL (Page 150)	5.2.18.3 Electrical Distribution System (Page 156) c) Connection between UPS system and the network switch racks shall be redundant. No single point of failure shall exist in the power connectivity between network racks and UPS system. 5.2.18.5 UPS requirements and features (Page 156) UPS system shall provide a redundant power supply to the following needs: • Servers and important network and storage equipment • Access control, Fire Detection & suppression system and surveillance system 5.3.1.1 Technical Specifications of State Data-Center facilities that are readily available at State Data Centre (SDC). Receiving Power: SDC redundant UPS UPS: UPS system with N+N redundancy Generator: Gen-set with N+1 redundancy	The Bill of Material (BOM) Summary (Page 394-400) specifies only ; 01 no. 50 KVA UPS at ICCCL and 01 no. 75 KVA DG at ICCCL which does not ensure redundancy as per RFP requirements. Moreover as some applications and equipment shall be hosted at SDC which has N+N redundancy, request you to change qty of 50 KVA UPS and 75 KVA DG to 02 nos. each for ensuring 1+1 or N+N redundancy in power source, ensuring uniformity and eliminating single point of failure in the power circuit1	As per RFP. This power backup equipment required at Temp. ICCCL location and will be shift to new permanent ICCCL where these will work as redundant.
Vol.2	2844	Interlace India Pvt. Ltd.	5.1.3.4 Field Junction Box	5.1.3.4 Field Junction Box	As the Junction Box shall be providing protection to the critical electronic equipment by withstanding harsh environmental and corrosive conditions such as Rain, Dust, Heat, moisture etc. the build material and quality should be such that the enclosure is able to reduce these threats by eliminating hot spots and condensation thereby decreasing the failure of sensitive communications or other electronic equipment.	Kindly include the following specifications in Field Junction Box : Should be CNC fabricated made of Galvanized Steel with anti-corrosion outdoor powder coating Pure Polyester. Protection from the suns heat using double wall technology, thermal chamber and high-performance insulation to minimise the effects of solar heat gain and the transference of heat/cold There shall be heat insulation between inner wall and outer wall. The insulation material shall be 30mm-50mm PEF. Cooling: Redundant Fans to be mounted for hot air outlet only	Tender conditions shall prevail
Vol.2	2845	Palo Alto Networks (Set 1)	5.3.5 Intranet Firewall with IPS. S.		Appliance must de-liver at least 20 Gbps Next Generation Intrusion Prevention throughput (with enabling Firewall and IPS feature simultaneously)	important security services like Anti Virus, Anti Spyware and logging is missing in the performance. Request you to please amend to standard based real time throughput so that you can get predictable consistent performance and leading OEMs are on level play. Please amend to : Appliance must deliver at least th 20 Gbps Throughput including Firewall, application control, IPS, Anti Virus enabled on Enterprise mix/ Application mix throughput performance. Solution should also support Anti-Virus, Anti-malware feature simultaneously)	Tender conditions shall prevail
Vol.2	2846	Palo Alto Networks (Set 1)	5.3.5 Intranet Firewall with IPS. S.		Appliance must deliver at least 80 Gbps of Firewall throughput	Diff OEM have different architecture and they so not mention legacy performance Please amend so that all leading OEMs can participate: Appliance must deliver at least 40 Gbps of Next Generation application Firewall throughput	Tender conditions shall prevail

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Vol.2	2847	Palo Alto Networks (Set 1)	5.3.5 Intranet Firewall with IPS. S.		Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	15 Million Concurrent is too high for 20 Gbps device. 20 Gbps device will never cross 2 million concurrent sessions. Even if we scale 4 time it will never go beyond 8 million sessions. Please amend so that all leading OEMs can participate: Appliance must Support at least 8 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 10 Million Concurrent firewall connections on device from day 1
Vol.2	2848	Palo Alto Networks (Set 1)	Volume-2 5.3.5 Intranet Firewall with IPS.	Pg180 Clause 1.4	Firewall must support 400K of new connections/sec	400,000 New sessions is too high for 20 Gbps device. It should be atleast 250K or higher. Please amend to: The proposed solution must support at least 250,000 new session per second on HTTP transaction.	Firewall must support 250K of new connections/sec
Vol.2	2849	Palo Alto Networks (Set 1)	Volume-2 5.3.5 Intranet Firewall with IPS.	Pg180 Clause 1.7	No limitation for client connecting using SSL VPN	SSL VPN is client based technology and there is a limit as per the sizing of the device as per the number of concurrent SSL VPN client connecting to the device. Request you to please change to: The device should support 20000 SSL VPN clients from day-1	The device should support 1000 SSL VPN clients from day-1
Vol.2	2850	Palo Alto Networks (Set 1)	Volume-2 5.3.5 Intranet Firewall with IPS.	Pg181 Clause 1.8	Should support at least i) 8x1000BaseT ports ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port	Spine switch have been asked with 100Gig interfaces, so it is recommended that the Firewall should also be ready for 100Gig from day-1 This will give extended life to the solution and will help avoid bottleneck Also HA ports are missing in the interfaces Request you to please change to: Should support at least i) 8x1000BaseT ports ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G/100G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G/100G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port vii) 2X HA Ports	Should support at least ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port
Vol.2	2851	Palo Alto Networks (Set 1)	Volume-2 5.3.5 Intranet Firewall with IPS.	Pg182 Clause 2.1	The appliance must have inbuilt redundant power supply and fans	redundant Fans are normally mistaken as multiple fan in a single Fan tray. Please amend to give more clarity The appliance must have inbuilt hot swappable redundant power supply and redundant fan trays	Tender conditions shall prevail
Vol.2	2852	Palo Alto Networks (Set 1)	Volume-2 5.3.6 Next Generation Firewall	Pg184 Clause 5	Appliance should offer 40Gbps Firewall throughput & 20Gbps NGFW throughput (with enabling Firewall, IPS/Threat Prevention & AVC). This through-put must be under real world production Conditions.	important security services like Anti Virus, Anti Spyware and logging is missing in the performance. Request you to please amend to standard based real time throughput so that you can get predictable consistent performance and leading OEMs are on level play. Please amend to : The proposed solution should support at least 40 Gbps Next Generation Firewall Throughput with 20 Gbps Throughput including Firewall, application control, IPS, Anti Virus enabled on Enterprise mix/ Application mix throughput performance. Solution should also support Anti-Virus, Anti-malware,	Appliance should offer 40Gbps Firewall throughput & 20 Gbps NGFW/Threat Prevention throughput (with enabling Firewall, IPS & AVC). This through-put must be under real world production Conditions.
Vol.2	2853	Palo Alto Networks (Set 1)	Volume-2 5.3.6 Next Generation Firewall	Pg184 Clause 14	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	NAT46 is non standard and is been used in some routers. Please amend so that leading OEMs can participate to: Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) / IPv4 over IPv6 functionality	Firewall should support NAT(IPv6-to-IPv6), NAT(IPv6-to-IPv4) & NAT (IPv4-to-IPv6) functionality
Vol.2	2854	Palo Alto Networks (Set 1)	Volume-2 5.3.6 Next Generation Firewall	Pg184 Clause 23	The solution must provide a full-featured NBA capability to detect threats emerging from inside the network (i.e. ones that have not passed through a perimeter IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines.	This is a proprietary feature. Please remove as this restrict all other OEMs to participate.	Clause deleted
Vol.2	2855	Palo Alto Networks (Set 1)	Volume-2 5.3.6 Next Generation Firewall	Pg184 Clause 24	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	This is a proprietary feature. Please remove as this restrict all other OEMs to participate.	Clause deleted

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Vol.2	2856	Palo Alto Networks (Set 1)	Volume-2 5.3.6 Next Generation Firewall	Pg184 Clause 25	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. On-premise Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and minimum of 2 x 10 ports with populated transceivers as per design requirement.	Sandbox is quantified by number of files, VM supported and hard disk which seems to be missed. Request you to please amend so that all leading OEMs are at level play and can participate. The APT device should be on premise from the same OEM as of NGFW for ease of integration and should have upto 28VM, can scan upto 6000 files per day and should have RPS and 2TB in RAID 1 with option for atleast 4 extra bays for future. The on premise should also support clustering upto 20 devices for scalability.	Clause deleted
Vol.2	2857	Palo Alto Networks (Set 1)	Volume-2 5.3.6 Next Generation Firewall	Pg184 Clause 26	NG Firewall should support Active/Active or Active/Standby failover.	The clause seems to be a typo as it allows any one of these to be supported. Please amend to support both active active and active passive NG Firewall should support Active/Active or Active/Standby failover.	Tender conditions shall prevail
Vol.2	2858	Palo Alto Networks (Set 1)	Volume-2 5.3.5 & 5.3.6		Missing important security features required to address current day attacks	Exploits is the main technique used by the hackers to intrude and hack and it should be addressed. Please add: Solution should detect probable exploit kit activity targeted at a host on the network. Exploit kits should be identified by a vulnerability exploit or exploit kit landing page signature, combined with either a malware download signature or a known command-and-control signature.	Tender conditions shall prevail
Vol.2	2859	Palo Alto Networks (Set 1)	Volume-2 5.3.5 & 5.3.6		Missing important security features required to address current day attacks	2FA is an important aspect of any infrastructure and is required to be integrated with the NGFW. Please add: Should support Authentication Policy and Multi-Factor Authentication to enforce 2FA on any application or site in an organization, regardless of whether an application natively supports 2FA.	Tender conditions shall prevail
Vol.2	2860	Palo Alto Networks (Set 1)	Volume-2 5.3.5 & 5.3.6		Missing important security features required to address current day attacks	Phishing attacks is the most common used techniques by the hackers and need to be addressed. Please add: The device should be capable to identify and prevent in-progress phishing attacks by controlling sites to which users can submit corporate credentials based on the site's category thus blocking users from submitting credentials to untrusted sites while allowing users to continue to submit credentials to corporate and sanctioned sites.	Tender conditions shall prevail
Vol.2	2861	Palo Alto Networks (Set 1)	Volume-2 5.3.5 & 5.3.6		Missing important security features required to address current day attacks	Security is the utmost important for any government organization and should be taken from the leaders to ensure quality and effectiveness of the solution. Please add: OEM must be in the leaders quadrant of the enterprise firewall report for the last five years and the proposed vendor must have "Recommended" rating with min 97% Evasion proof capability and min 97% Security Effectiveness as per 2019 NSS Labs Next Generation Firewall comparative Test Report.	Tender conditions shall prevail

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Vol.2	2862	Palo Alto Networks (Set 1)	Volume-2 5.3.5 & 5.3.6	Infrastructure Security	Missing important Component Threat Analysis Tool. TAT tool is a mandatory for security operations for high-fidelity intelligence, correlation, context and automated prevention workflows needed to identify and respond to events in real time.	<p>Please refer TAT sheet for basic features of Threat Intelligence. Threat Analysis Tool: Detailed Specifications Model: Single model should be mentioned, Mentioning more than one or any deviation will lead to rejection of bid.</p> <ol style="list-style-type: none"> 1. Web based service should provide the intelligence, analytics, and context required to understand which attacks require immediate response, as well as the ability to make indicators actionable and prevent future attacks. 2. This service should enable you to distinguish the important threats from everyday commodity attacks by matching events on your network. In case of malicious event, it should help immediately know the context around an attack, such as the malware family, campaign, or malicious actor targeting your organization. When identified, it will alert your security team about high-priority events, enabling you to take swift action to mitigate their impact. 3. It should provide unprecedented visibility into unknown threats, with the collective insight of thousands of global enterprises, service providers, and governments feeding the service. 4. It should be capable of gaining intelligence from sandbox, Third-party feeds and correlate. 5. It should be capable of integrate with Third-party open-source application that streamlines the aggregation, enforcement and sharing of threat intelligence. 6. On identifying high-priority attacks, It should enable Analyst to find related indicators of compromise and export them from the service so take immediate and decisive action to prevent threats and mitigate potential impact can be taken. 7. Should be able to present unique, targeted attacks which are automatically prioritized with full context, allowing security teams to respond to critical attacks faster, without additional IT security resources. 8. Should automatically transform threats into actionable controls that prevent future attacks and should simplify workflows to create and enforce new controls, from fully automated to user directed to the asked security platform. 9. Should help understand attacks targeting your peers or industry as well as global. 10. Should help gain insight from a global community of security experts. 11. Should be supplied with atleast 1 administrator access rights. 	Tender conditions shall prevail
Vol.2	2863	Palo Alto Networks (Set 2)	Vol-2 5.3.6 Next Generation Firewall Sl. No. - 1	Page 183	Firewall Solution must have NDPP certification.	Request to change the certification from NDPP to Firewall solution must have NEBS Level 3, FCC Class A, CE Class A, VCCI Class A, cTUVus, CB	Firewall Solution must have NDPP/EAL4/ICSA certification.
Vol.2	2864	Palo Alto Networks (Set 2)	Vol-2 Sl. No. - 4	Page 184	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one.	Request to change to 'The proposed firewall appliance should have at least 4 ports of 100/1000/10G along with 16 ports of 10 Gig SFP+ ports with separate management port and 4 * 40G/100G QSFP28 ports from Day one'.	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	2865	Palo Alto Networks (Set 2)	Vol-2 Sl. No. - 5	Page 184	Appliance should offer 40Gbps Firewall throughput & 20Gbps NGFW throughput (with enabling Firewall, IPS/Threat Prevention & AVC). This through-put must be under real world production Conditions.	Appliance should offer 40Gbps Firewall throughput with application visibility, controlled and logging enabled & 20 Gbps Threat Prevention measured with Application visibility and control, IPS, antivirus, anti-spyware, WildFire, file blocking, and logging enabled, utilizing approx transactions. This through-put must be under real world production Conditions.	Appliance should offer 40Gbps Firewall throughput & 20 Gbps NGFW/Threat Prevention throughput (with enabling Firewall, IPS & AVC). This through-put must be under real world production Conditions.
Vol.2	2866	Palo Alto Networks (Set 2)	Vol-2 Sl. No. - 6	Page 184	Should support 5 Gbps of IPsec VPN throughput and must support minimum 10000 VPN user.	Should support 15 Gbps of IPsec VPN throughput and must support minimum 25000 VPN user.	Should support 5 Gbps of IPsec VPN throughput and must support minimum 5000 VPN user
Vol.2	2867	Palo Alto Networks (Set 2)	Vol-2 Sl. No. - 7	Page 184	Firewall should support 8 Million concurrent sessions and 200K new connections per second.	Firewall should support 8 Million concurrent sessions and 290K new connections per second.	Tender conditions shall prevail
Vol.2	2868	Palo Alto Networks (Set 2)	Vol-2 Sl. No. - 21	Page 185	Should support Application Visibility and Control (AVC) supports more than 10000 application-layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Should support Application Visibility and Control (AVC) supports more than 3500 application-layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Clause deleted

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Vol.2	2869	Palo Alto Networks (Set 2)	Vol-2 Sl. No. - 25	Page 185	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. On-premise Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and minimum of 2 x 10 ports with populated transceivers as per design requirement.	The proposed solution should have signatureless approach to prevent unknown weaponized files, credential phishing, and malicious scripts instantly / real time without holding files or web pages without configuring MTA or sending to cloud for analysis.	Clause deleted
Vol.2	2870	Palo Alto Networks (Set 2)	Addition Request	Addition Request	3rd Party Test Certification	Offered product should not have any observed evasions in 2019 SVM NGFW report of NSS and above 95% security effectiveness. Also, should feature in the top quadrant of the Security Value Map (SVM) of NSS Labs report 2019 for Next Generation Firewall (NGFW)	Tender conditions shall prevail
Vol.2	2871	Palo Alto Networks (Set 2)	Addition Request	Addition Request	3rd Party Test Certification	The proposed vendor must be in the Leader's quadrant of the Enterprise Firewalls Gartner Magic Quadrant for consecutive 3 years (Minimum)	Tender conditions shall prevail
Vol.2	2872	Palo Alto Networks (Set 2)	Addition Request	Addition Request	CPU	Proposed NGFW appliance (Each appliance) must have minimum 2 x 48 Core CPU from day 1.	Tender conditions shall prevail
Vol.2	2873	Palo Alto Networks (Set 2)	Addition Request	Addition Request	Memory (DRAM)	96 GB from day 1	Tender conditions shall prevail
Vol.2	2874	Palo Alto Networks (Set 2)	Vol-2 5.2.7 Unified Threat Management System (UTM) Sl. No. - 4	Page no 135	New connections/sec	25000	Tender conditions shall prevail
Vol.2	2875	AMAZON	Page 360 11.14 Security Controls for Cloud Services	Page 360 11.14 Security Controls for Cloud Services	Reference to MeitY guideline dated 31/03/17	MEITY Guidelines have been revised. Kindly consider the one issued on 16.10.2019 https://meity.gov.in/content/guidelines-master-service-agreement-procuring-cloud-services	Tender conditions shall prevail
Vol.2	2876	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	1. CSPs will be represented by their authorised partners in this bod. All contractual obligations will be carried out by front end bidder.	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2877	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	2. The mentioned points are relevant for CLOUD EMPANELMENT. Please incorporate points which are relevant for the selection of capable CSPs for Smart City Projects.	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2878	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	3. Please include the following points for CSP PQ criteria	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2879	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	Turnover of 300 Cr from Cloud Services	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2880	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	SOC 1,2,3 Compliance	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2881	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	The CSP should be in the leader's quadrant for Infrastructure as a service provider, for the last 3 years.	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2882	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	CSP should provide support for at least 3 leading processor manufacturer supporting x-86 and arm-architectures.	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2883	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	Availability of reports (e.g., personal health dashboard, security logs, audit reports...) to the customer on the portal	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2884	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	The CPS should have Published uptimes	These are just MEIT Standard for reference and Could Services are not Required in this Tender

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Vol.2	2885	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	RTO and RPO of less than 60 seconds for DC and DR on Cloud	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2886	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	Offer SLAs on Availability of compute with dynamic scalability for storage.	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2887	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	CSP should provide software defined configurations to add / remove capacity	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2888	AMAZON	Page 361 11.14 Security Controls for Cloud Services	Page 361 11.14 Security Controls for Cloud Services	Ref : point b to x	Availability of Cloud Governance Capabilities for the Government Agency to monitor the provisioned cloud services	These are just MEIT Standard for reference and Could Services are not Required in this Tender
Vol.2	2889	IDEMIA International	Vol-II, 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	230	c) The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India.	Request you kindly amend the clause like: The ITMS OEM should have supplied at least 2000 licenses /devices cumulative from (ANPR/RLVD/Speed) in India / Globally.	The ITMS OEM should have supplied and deployed proposed system for atleast 500 ANPR systems, 100 RLVD systems and 200 SVD systems in India
Vol.2	2890	IDEMIA International	Vol-II, 5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	230	g) The ITMS Software should be NABL accredited lab for accuracy	Request you kindly amend the clause like: The ITMS Software should be NABL /OIML R91 /D11 Certification by METAS accredited lab for accuracy	NABL Clause stands deleted. Please read the clause as In ITMS, SVD system should have proper test report and certificate (Legal Decree/type approval/homologation). The test reports/certificates should be provided by domestic/international labs who have mandate to provide the same for speed enforcement system. The test reports should be in compliance to OIMLR91, D11 and WELMEC 7.2 norms.
Vol.2	2891	IDEMIA International	Vol-II, 5.4.2.2.Functional/General Requirements Red Light Violation Detection (RLVD) System	231	The system should be capable of capturing multiple infracting vehicles simultaneously in Different lanes on each arm at any point of time with relevant infraction data like: a) Type of Violation b) Date, time, Site Name and Location of the Infraction c) Registration Number of the vehicle through ANPR Camera system for each vehicle identified for infraction.	Request you kindly amend the clause like: The system should be capable of capturing 32 or above infracting vehicles simultaneously in Different lanes on each arm at any point of time with relevant infraction data like: a) Type of Violation b) Date, time, Site Name and Location of the Infraction c) Registration Number of the vehicle through ANPR Camera system for each vehicle identified for infraction.	The system should be capable of capturing multiple heterogeneous infracting vehicles simultaneously in Different lanes on each arm at any point of time with relevant infraction data like: a) Type of Violation b) Date, time, Site Name and Location of the Infraction c) Registration Number of the vehicle through ANPR Camera system for each vehicle identified for infraction.
Vol.2	2892	IDEMIA International	Vol-II, 5.4.2.5 Technical Specification - ANPR SW Requirements	241	The system shall detect the colour of all vehicles in the camera view during daytime and label them as per the predefined list of configured system colours. The system shall store the colour information of each vehicle along with the license plate information for each transaction in the database.	Request you kindly amend the clause like: The system shall detect the colour of vehicles of interest in the camera view during daytime and label them as per the predefined list of configured system colours. The system shall store the colour information of each targeted vehicle along with the license plate information for each transaction in the database	Tender conditions shall prevail
Vol.2	2893	IDEMIA International	Vol-II, 5.4.2.5 Technical Specification - ANPR SW Requirements	243	The system should have ANPR/ OCR to address the alpha numeric character of irregular font sizes	Request you kindly amend the clause like: The system should have ANPR/ OCR to address the English alpha numeric character of irregular font sizes	Tender conditions shall prevail
Vol.2	2894	IDEMIA International	Vol-II, 5.4.3.6 Radar Requirements	252	The proposed violation detection device shall be of 4D tracking radar	Request you kindly amend the clause like: The proposed violation detection device shall be of 3D tracking radar	Tender conditions shall prevail

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Vol.2	2895	IDEMIA International	Vol-II, 5.4.3.6 Radar Requirements	253	The System shall be able to function on Detection Range of Car: 250m.	Request you kindly amend the clause like: The System shall be able to function on Detection Range of Car: 150m or above	Tender conditions shall prevail
Vol.2	2896	IDEMIA International	Vol-II, 5.4.3.6 Radar Requirements	253	a) To limit installation time on site, physical installation of the detection device shall not require complex alignment procedures. 1. Technology -> 4D Object Tracking (Range, Angle, Speed, Time) with UHD Resolution, independent discrimination of multiple targets at same speed and same range 2. Speed Range -> Measurement up to 300km/h or more 3. Field of view -> ±20degreesorgreaterhorizontal,±1 0degrees or greater vertical 4. Frequency -> 24 GHz/ 77 GHz 5. Interface -> Ethernet/CAN 6. Housing -> IP67 7. Simultaneously Tracked Objects -> 100 or higher 8. Minimum Detect Range -> 120m or higher 9. Operating Modes -> Approach, Recede, Bidirectional 10. Drift -> Negligible, nore- calibration needed over 10 years life.	Request you kindly amend the following clauses as below: 1. Technology -> 3D Object Tracking (Range, Angle, Speed, Time) with UHD Resolution, independent discrimination of multiple targets at same speed and same range 6. Housing -> IP65 or above 7. Simultaneously Tracked Objects -> 32 Objects or above	Tender conditions shall prevail
Vol.2	2897	Masstrans Technologies Private Limited (Erstwhile Power Electronics)	Volume 2	Sr No. 1.2.3 , 395	Vehicle Detection System	Required camera resolution in Megapixel	Please referee to tech Specifications for Camera Megapixel.
Vol.2	2898	Masstrans Technologies Private Limited (Erstwhile Power Electronics)	Volume 2	Sr No. 1.2.4 ,395	ATCS BOQ (Pedestrian lamp vs Galvanized standard Poles)	Required Clarification of Lamp and pole Qty	Tender conditions shall prevail
Vol.2	2899	Masstrans Technologies Private Limited (Erstwhile Power Electronics)	Volume 2	Sr No.1.1.4, 394	Vehicle Activated Radar Speed Signs	Required Technical Speciation to provide matched product	Tender conditions shall prevail
Vol.2	2900	Masstrans Technologies Private Limited (Erstwhile Power Electronics)	Volume 2	Sr No.1.1.3, 394	Sped Violation Detection System	Need to confirm Location as in location list mentioned 12 and BOQ	1 Airport Road – (One Location) 2 Bypass Road - Between Dhanapala – Malabari (Two Locations)
Vol.1	2901	Masstrans Technologies Private Limited (Erstwhile Power Electronics)	Volume 1	Sr No. 2.29, 27	Eligible Goods and Services, and OEM Criteria f) The proposed OEM should have installed base of at least 20% of the quoted product in terms of volume in a single project. h) The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.	Instead of Indian, require Global player also to be allowed	Tender conditions shall prevail.
Vol.2	2902	Juniper Networks	Volume 2	167 (24)	Should support Unidirectional Link Detection Protocol (UDLD)	UDLD is Cisco proprietary protocol. Kindly change this clause to the following: Should support Unidirectional Link Detection Protocol (UDLD) / equivalent.	Clause deleted
Vol.2	2903	Juniper Networks	Volume 2	5.3.2/Data Center Spine & Leaf Switching Solution/167 (28)	The solution should support NSSU/ISSU or equivalent.	For NSSU / ISSU to function properly, there has to be two management engine and this is applicable primarily to chassis based switch. The solution asked is Spine & Leaf architectre where failure of any one device won't stop forwarding traffic if properly deployed. So we request to remove this clause to avoid ambiguity.	Clause deleted

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Vol.2	2904	Juniper Networks	Volume 2	5.3.3/Data Center Out of Band Switches/168 (46)	The OEM should have service Center in Eastern part of India.	Kindly change this clause to "The OEM or its business partner should have service Center in Eastern part of India." As this clause is not mentioned for other devices (Ex. Intranet Firewall with IPS, & Next Generation Firewall), may consider to remove this clause.	46. The OEM should have service Center in India.
Vol.2	2905	Juniper Networks	Volume 2	5.3.5/Intranet Firewall with IPS/169 (3)	48 x 1000BaseT ports with 2xSFP+ Uplinks	2xSFP+ uplinks for 48 port switch would introduce very high over-subscription. Kindly change this to "48 x 1000BaseT ports with 4xSFP+ Uplinks".	Tender conditions shall prevail
Vol.2	2906	Juniper Networks	Volume 2	169 (6)	Should support minimum 8MB buffer.	Higher buffer may delay delivery of packet and delayed delivery of packet might be more harmful for realtime applications (most of the Smart City applications would be such). Kindly change this clause to "Should support minimum 4MB buffer".	6. Should support minimum 4MB buffer
Vol.2	2907	Juniper Networks	Volume 2	170 (20)	Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC).	Kindly change this clause to "Must support IEEE 802.1Qbb Prioritybased Flow Control (PFC) or IEEE 802.3x Flow Control.	Tender conditions shall prevail
Vol.2	2908	Juniper Networks	Volume 2	171 (35)	The OEM should have service Center in Eastern part of India	Kindly change this clause to "The OEM or its business partner should have service Center in Eastern part of India." As this clause is not mentioned for other devices (Ex. Intranet Firewall with IPS, & Next Generation Firewall), may consider to remove this clause.	35. The OEM should have service Center in India
Vol.2	2909	Juniper Networks	Volume 2	180 (1.3)	Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	Kindly change this clause to - "Appliance must Support at least 30 Million Concurrent firewall connections on device from day 1" so that next 5 years scalability can be addressed.	Tender conditions shall prevail
Vol.2	2910	Juniper Networks	Volume 2	180 (1.4)	Firewall must support 400K of new connections/sec	Kindly change this clause to "Firewall should must support 1000K new connections per second" so that next 5 years scalability can be addressed.	Firewall must support 250K of new connections/sec
Vol.2	2911	Juniper Networks	Volume 2	180 (1.7)	No limitation for client connecting using SSL VPN	Kindly clarify whether SSL/IPsec VPN clients are to be included in the commercial offer. If yes, kindly mention number of VPN clients are to be included. May kindly update the clause to "No limitation for client connecting using SSL/IPsec VPN and 500 VPN clients are to be included from day-1".	The device should support 1000 SSL VPN clients from day-1
Vol.2	2912	Juniper Networks	Volume 2	180 (1.8)	Should support at least i) 8x1000BaseT ports ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port	10/100/1000BaseT interfaces are not required in high end Next generation Firewall. Considering minimum 5 years life of the product and the way bandwidth requirement is going up, 100G port should be considered. Kindly change the clause to the following: i) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) ii) 2x40/100G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iii) Should have additional 2x40/100G ports for connectivity to both the Core Routers. iv) 1x1000BaseT management port v) 1xConsole Port	Should support at least ii) 8x10Gbps Ports. (Populated with 2x10G Single mode transceiver to SDC Internet Switch and 4x10G multimode transceiver) iii) 2x40G Ports (Populated with 2x40G multimode transceiver) for connectivity to both Spine Switches. iv) Should have additional 2x40G ports for connectivity to both the Core Routers. v) 1x1000BaseT management port vi) 1xConsole Port
Vol.2	2913	Juniper Networks	Volume 2	180 (2.2)	The appliance must not have reported a backdoor vulnerability in OS in past five years	Kindly change this clause to - "The appliance must not have reported a backdoor vulnerability in OS in past three years" to allow participation of more OEMs.	Clause deleted
Vol.2	2914	Juniper Networks	Volume 2	180 (2.7)	i) Firewall should have minimum 10 virtual contexts/VDOM ii) Firewall should be SD-WAN ready	As this is Intranet firewall, SD-WAN functionality wont be used. Kindly remove this clause.	Tender conditions shall prevail
Vol.2	2915	Juniper Networks	Volume 2	5.3.6/ Next Generation Firewall/184 (4)	The proposed firewall appliance should have at least 12 ports of 10/100/1000 along with 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40 G ports from Day one	The Next Generation Firewall should be loaded with 100G ports to accommodate high traffic volume. 10/100/1000BaseT ports are required on such high end firewall. Kindly change this clause to : "The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports with separate management port and 4 * 40/100 Gig SFP28 ports from Day one"	The proposed firewall appliance should have at least 8 ports of 10 Gig SFP+ ports, separate management port and 4 ports of 40Gbps QSFP from Day one. 2x40Gbps ports populated with 40Gbps multimode transceivers/cables for connectivity with Core Routers' 40Gbps QSFP ports/transceivers. 4x10Gbps SFP+ ports to be populated with 10G multimode transceivers for connectivity to other infrastructure within Data Center.
Vol.2	2916	Juniper Networks	Volume 2	184 (6)	Should support 5 Gbps of IPSec VPN throughput and must support minimum 10000 VPN user	5 Gbps of IPSec VPN throughput for 10,000 users would lead to only 0.5 Mbps throughput per user. Kindly change this clause to "Should support 5 Gbps of IPSec VPN throughput and must support minimum 5000 VPN user" so that each user gets at least 1 Mbps throughput.	Should support 5 Gbps of IPSec VPN throughput and must support minimum 5000 VPN user

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Vol.2	2917	Juniper Networks	Volume 2	184 (7)	Firewall should support 8 Million concurrent sessions and 200K new connections per second.	These are critical performance figure for any high end NetGen firewall and mentioned parameters may lead to performance bottle neck during next 5 years operation. Kindly change this clause to "Firewall should support 40 Million concurrent sessions and 1000K new connections per second."	Tender conditions shall prevail
Vol.2	2918	Juniper Networks	Volume 2	5.2.8 /Internet Switch (L-3)/136 (4)	Number of interfaces - 48x10/100/1000 Mbps RJ45 ports 2xSFP Ports (dedicated)	2xSFP uplinks for 48 port GigE switch would introduce very high over-subscription. Kindly change this to - "Number of interfaces - 48x10/100/1000 Mbps RJ45 ports 4x10G SFP+ Ports (dedicated)".	Tender conditions shall prevail
Vol.2	2919	Juniper Networks	Volume 2	1/Core Router/29	Should support up to 16K MAC addresses	16K MAC address support is too low for the Core Router of Smart City Network. Kindly change this clause to "Should support up to 1 Million MAC addresses".	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	2920	Juniper Networks	Volume 2	296 (9)	Shall support - minimum 256K IPv4 and IPv6 routes - minimum 4K multicast routes	Service Provider grade router is required for the Core Router of Guwahati Smart City. Routing parameters are too low. Kindly change this clause to "Shall support - minimum 2 Million IPv4 and 2 Million IPv6 routes - minimum 128 K multicast routes	Tender conditions shall prevail
Vol.2	2921	Juniper Networks	Volume 2	297 (45)	Segment Routing	Kindly explain the use case of "SR and LDP integration support" feature asked under segment routing. May remove this Segment routing features to avoid ambiguity and participation of more OEMs.	i) Segment routing for IPv4 ii) Segment routing for IPv6 iii) Topology-Independent Loop-Free iv) Alternate (TI-LFA) for faster convergence v) Remote-LFA
Vol.2	2922	Juniper Networks	Volume 2	297 (27)	Hierarchical QoS	Kindly change this clause to "Hierarchical QoS with 256k queues" so that minimum QoS performance parameter is set.	Tender conditions shall prevail
Vol.2	2923	Juniper Networks	Volume 2	5.5.3.3/Technical Specification of L2 Switches at POP Sites for DWDM/OTN/302 (1)	24*10/100/1000 Base-TX/FX ports and 4 nos of 10G uplink ports.	Kindly change the clause to "24*10/100/1000 Base-TX/FX ports, 4 nos of 10G uplink ports and 2 nos. of 40G Ports for ring creation" for better performance.	Tender conditions shall prevail
Vol.2	2924	Juniper Networks	Volume 2	302 (2)	Switch type Layer 2	Kindly change the clause to "Switch type Layer 2 / Layer 3" for deployment flexibility.	2. Switch Type- i) Layer 3 Switching/Routing ii) OSPF, OSPFv3, IS-IS, IS-IS for IPv6, BGPv4, Route Summarization, Policy Based Routing. iii) Layer 3 MPLS, MPLS-TE, VPLS/equivalent, EVPN support iv) Segment Routing for IPv4 and IPv6, TI-LFA v) VRF, L3 VPN, AES/3DES, RADIUS, IP SLA/ equivalent quoted in line item stated in BOQ "Any other Hardware or Software required to meet the RFP requirement "
Vol.2	2925	Juniper Networks	Volume 2	302 (8)	Operating Temperatures - 0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	The highest-ever temperature recorded in Guwahati was 40.3°C in May 1960. Kindly change this clause to "Operating Temperatures - 0° to 45° C, shall support 0% to 85% noncondensing humidity conditions.	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	2926	Juniper Networks	Volume 2	303 (18)	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	"jumbi frame" looks like a typo error and jumbo frame support requirement should be mentioned. Request to change this clause to "Support upto 4K VLANs and 9216 bytes jumbo frame"	Support upto 4K VLANs with jumbo frame handling capability of 9K or 13K packet size
Vol.2	2927	Juniper Networks	Volume 2	303 (28)	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	2928	Juniper Networks	Volume 2	303 (28)	Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032	Kindly change this clause to "Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent"	28. Metro Features - i) Should support Ethernet Ring Protection offering sub 50-ms protection using ERPS as per ITU-T G.8032 or equivalent protocol.
Vol.2	2929	Alcatel-Lucent Enterprise	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port/10	Volume # 2 Page No # 85	c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1.	OSPF is a Layer 3 protocols and applicable at distribution and core level. Its not required at edge level switch	Clause Deleted - (c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1.)

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Vol.2	2930	Alcatel-Lucent Enterprise	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port/19	Volume # 2 Page No # 84	Persistent PoE Switch should have option of redundant power solution to ensure there is no break in connectivity and power to POE devices wherever required.	This is a requirement of redundant power supply. Please confirm.	Switch should support redundant Dual DC/AC Power inputs.
Vol.2	2931	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution /2	Volume # 2 Page No # 165	Active switching throughput should be minimum i) Spine Switch - 6.4 Tbps ii) Leaf (ToR) Switch – 1.44 Tbps	1.44 Tbps is far less . We recommended 2.16 Tbps throughput for Leaf switch, request you to please change to 2.16 Tbps	Tender conditions shall prevail
Vol.2	2932	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution /3.2	Volume # 2 Page No # 166	Leaf Switch – i) 24x 100BaseT Ports	We recommend to kindly change to 24X1000 BaseT ports.	Tender conditions shall prevail
Vol.2	2933	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution/6	Volume # 2 Page No # 166	Should have 32MB buffer.	Recommend 16GB RAM for Spine and 8 GB for leaf switch with 16GB flash on both switch for attaining min 32mb buffer	Tender conditions shall prevail
Vol.2	2934	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution/11	Volume # 2 Page No # 166	Support for 200,000 or more MAC addresses	We recommend to change this to min 100K as these many are enough and would qualify multiple OEMs.	Support for 100,000 or more MAC addresses
Vol.2	2935	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution /18	Volume # 2 Page No # 167	Should support DHCP	We recommend to add L3VPN with DHCP, please rephrase to "Should Support DHCP L3VPN"	Tender conditions shall prevail
Vol.2	2936	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution /46	Volume # 2 Page No # 168	The OEM should have service Center in Eastern part of India.	we recommend OEM or OEM authorize Partner should have services center in eastern part.	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	2937	Alcatel-Lucent Enterprise	5.3.2 Data Center Spine & Leaf Switching Solution /47	Volume # 2 Page No # 168	The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares.	we recommend OEM or OEM authorize Partner should have services center in eastern part.	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	2938	Alcatel-Lucent Enterprise	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN/3	Volume # 2 Page No # 302	32k or more	We recommend min 16K MAC address Also please refer Clause no. 7 is it mismatch as clause 7 recommends 12k Mac address.	3. MAC - 16K or more MAC Addresses
Vol.2	2939	Alcatel-Lucent Enterprise	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN/7	Volume # 2 Page No # 302	Switch should support minimum of 8K IPv4 hosts or better and 4K IPv6 hosts or better	We recommend 16K MAC address request you to please consider	Switch should support minimum 64K IPv4/IPv6 routes/hosts
Vol.2	2940	Alcatel-Lucent Enterprise	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN/8	Volume # 2 Page No # 303	0 degree to 55 degree, shall support 0% to 95% noncondensing humidity conditions	Normal switches have 0 to 45 Degree and supports 5% to 96% Humidity, Request you to please rephrase to " 0 degree to 45 degree, shall support 5% to 95% noncondensing humidity conditions	8. Operating Temperatures/Humidity - upto 45 degree, shall support upto 85% noncondensing humidity conditions.
Vol.2	2941	Alcatel-Lucent Enterprise	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN/9	Volume # 2 Page No # 303	Switch should support minimum of 12K IPv4 routes and 6K IPv6 routes	OEM Specific, please rephrase "Switch should support minimum of 128 IPv4 routes and 256 IPv6 routes	Tender conditions shall prevail

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Vol.2	2942	Alcatel-Lucent Enterprise	5.5.3.3 Technical Specification of L2 Switches at POP Sites for DWDM/OTN/18	Volume # 2 Page No # 303	Support upto 4K VLANs with jumbi frame handling capability of 13K packet size	OEM specific, request to change from 13K to 9K Jumbo frame	Support upto 4K VLANs with jumbo frame handling capability of 9K Packet Size or better
Vol.1	2943	CMS Computers Ltd.	volume-1	40	B. Project Experience B1 City Surveillance Projects The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.	1) As outdoor surveillance is similar to city surveillance, with similar delivery challenges we request to allow outdoor surveillance experience 2) Request to reduce minimum value for experience as 10 CR to maximise participation. 3) Video analytics is a function of software & not ability to deliver project. Many bidders have relevant experience & understanding. Hence Video analytics required to be removed as qualification criteria. We request to change project experience criteria as below The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on outdoor CCTV surveillance systems of minimum value of 10 Cr during last seven years as on the Bid Submission date per project	Refer to Addendum VI
Vol.1	2944	CMS Computers Ltd.	volume-1	40	B. Project Experience B2 Integrated Traffic Management System	Variable message display(VMD) is an important medium of information dissemination to Road Traffic users & vehicles. Hence we request to allow VMD experience as part qualification criteria. Kindly change requirement as below to maximise participation The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 5 Crores per project with the following components during last seven years (as on Bid Submission date) Components: • Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND • RLVD System / • ANPR System / • Variable Messaging Sign Boards	Refer to Addendum 7 (Sl. No. 21)
Vol.1	2945	CMS Computers Ltd.	volume-1	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: • Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND • RLVD System • ANPR System	Variable message display(VMD) is an important medium of information dissemination to Road Traffic users & vehicles. Hence we request to allow VMD experience as part qualification criteria. Kindly change requirement as below to maximise participation The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 5 Crores per project with the following components during last seven years (as on Bid Submission date) Components: • Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND • RLVD System / • ANPR System / • Variable Messaging Sign Boards	Refer to Addendum 7 (Sl. No. 21)

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Vol.2	2946	CMS Computers Ltd.	Traffic Signal Co	222	Technical Specifications of Traffic Controller "Sr no. 15 Standards compliance:" EN 50556/AS/NZS ISO 9001:1994 for design & servicing. AND "EN 12675/IEC 60068 for functional safety, EN 55024:2010 & AS/NZS 60950/BS EN 61000-3-3 or equivalent for voltage fluctuations, or equivalent"	Asked standards are not as per Indian Standards. We request to allow Traffic controller as per Indian Road Congress standard IRC-93	Standards compliance: EN 50556 ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675 for functional safety,
Vol.2	2947	CMS Computers Ltd.	6 Traffic Light As	224	5.4.1.6 Traffic Light Aspects "Sr no. 4 All units operate at voltage of - 12 / 24 volts DC."	As controllers are designed to operate Traffic lights working on 230vAC also. 12vDC/24vDC Traffic lights will limit OEM participation. We request to allow 230vAC Traffic light also	All units operate at voltage of - 12 / 24 volts DC/ 230 V AC/ 40V AC"
Vol.2	2948	Millennium Automation Private Ltd.	VOLUME-2/5.1.3.1 Dome CCTV Cameras 5.1.3.2 Fixed Bullet CCTV Cameras	7. FOV (Field of View)/Angel :	Wide: 104° x 54° (H x V) Tele: 33° x 19° (H x V) & "+/- 30° allowed"	Request kindly keep it simple in terms of Required orizontal & Vertical	Tender conditions shall prevail
Vol.2	2949	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.1 Dome CCTV Cameras 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	21. Security	1. Three-level password protection, IP Address filtering, User Access Log, HTTPS encryption 2. 802.1x network authentication with EAP/TLS 3. Signed Firmware 4. FTP disabled and Telnet closed, 5. OEM need to confirm on their letter head that any component/ hardware/ parts/ assembly/ software including firmware used in the offered solutions 6. Any of the security certifications of IEC/EN/UL -60950-1 /60950-22, IEC-62471	Asked functionality is brands specific . Thus request you kindly remove it. FTP used for snapshot upload and telnet use for troubleshooting point of you .	Tender conditions shall prevail
Vol.2	2950	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.1 Dome CCTV Cameras 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	28. OEM Criteria 29. OEM Criteria	OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	OEM Criteria should be part of eligibility criteria for participating brand/OEM. Thus request you kindly remove it from camera's specification.	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	2951	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	14. Multiple Streams	Quad stream	Triple stream is enough for any camera to fulfill required purpose. Main stream for recording . Sub stream for mobile application . Third stream for 3rd party application. Thus request you kindly amend it from quad stream to triple stream.	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265

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Vol.2	2952	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.2 Fixed Bullet CCTV Cameras	22. Analytics	Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, Crowd density estimation.	Intelligent video analytics software's used to track different analytics behaviour's instead of edge based camera analytics . Edge based analytics is not much capable to handle dynamic behaviour's . A Camera should be equipped from basic features like Motion , Tampering, line crossing , intrusion etc. Thus request you kindly mention analytic in VA Software scope.	Edge Analytics for all surveillance Cameras (Fixed and PTZ) The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction 2. Wrong way or illegal turn detection.
Vol.2	2953	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.2 Fixed Bullet CCTV Cameras	27. Certification	UL, EN, CE, FCC, ONVIF profile S, G & T	UL & EN certificate used as a substitute for each other . Thus request you kindly amend it to UL/EN, CE, FCC .	Tender conditions shall prevail
Vol.2	2954	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.3 PTZ CCTV Cameras	17. Tilt	3° ~ 90°, up to 300°/s	Generally 160°/s / 200°/s tilt speed used for tilt . Thus request you kindly amend it from 300°/s to 200°/s.	Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	2955	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.3 PTZ CCTV Cameras	26. Analytics	Camera must have edge base analytics Viz; Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	Intelligent video analytics software's used to track different analytics behaviour's instead of edge based camera analytics . Edge based analytics is not much capable to handle dynamic behaviour's . A Camera should be equipped from basic features like Motion , Tampering, line crossing , intrusion etc. Thus request you kindly mention analytic in VA Software scope.	Edge Analytics for all surveillance Cameras (Fixed and PTZ) The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction 2. Wrong way or illegal turn detection.
Vol.2	2956	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.3 PTZ CCTV Cameras	27. Alarm I/O	Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interface	for 3rd party integration 2/1 alarm inputs is enough. Thus request you kindly provide clarity for 4/2 .	Alarm I/O Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface
Vol.2	2957	Millennium Automation Private Ltd.	VOLUME-2/ 5.1.3.3 PTZ CCTV Cameras	33.IR Illuminator	Inbuilt 850nm intensity adjustable IR with minimum 180 meters range, with object identification	120mtr/150mtr is general IR distance used for PTZ . While 180meter is asked . Request you kindly amend it or provide clarity .	IR Illuminator: Inbuilt intensity adjustable IR with minimum 180 meters range, with object identification
Vol.1	2958	i2V Systems Pvt. Ltd	Volume1.pdf	Page:28	Eligible Goods and Services, and OEM Criteria: 2.29. The proposed OEM should have installed base of at least 20% of the quoted product in terms of volume in a single project.	We hereby request you to Kindly please Delete this Clause, as it is Specific to Single OEM & that technical Specification is being Favoured to Single OEM.	Tender conditions shall prevail.

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Vol.1	2959	i2V Systems Pvt. Ltd	Volume1.pdf	Page:28	h) The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India with at least 1000 cameras in last 3 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents.	We hereby request you to allow us to Bid with Amendment to this Clause as Follows: " The OEM for VMS proposed by the Bidder must be operational in minimum 2 City Surveillance projects in India in last 7 years as on date of submission of bid. Undertaking from OEM and successful completion/ installation report from client (State/ Central Government Department or Central/ State PSUs/ Smart City) needs to be submitted along with the bid documents" .	Tender conditions shall prevail.
Vol.1	2960	i2V Systems Pvt. Ltd	Volume1.pdf	Page:28	i) The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects in India with at least 1000 cameras/sensors in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents.	We hereby request you to allow us to Bid with Amendment to this Clause as Follows: "The ICCC Solution proposed by the Bidder must be operational in minimum 2 City wide projects/Defense Projects/ PSU's/Power Plant / Oil & Gas Plants in India in last 3 years. Undertaking from OEM and successful completion/ installation report from client (State / Central Government Department or Central /State PSUs/ Smart City) needs to be submitted along with the bid documents" We Understand that these Clauses are used to have a Quality OEM onboard, however a Competent OEM can also be Evaluated on the Basis of the Quality Certifications like ISO 9001:2015, ISO 27001:2013 & CMMI Level 3.	Tender conditions shall prevail.
Vol.1	2961	i2V Systems Pvt. Ltd	Volume1.pdf	Page:42	3.6.1 Technical Bid Criteria & Evaluation: Integrated Command and Control Centre Solution (OEM Criteria): No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. (Copy of Completion Certificates from Client mentioning name of CCC Software.)	We hereby request you to allow us to Bid with Amendment to this Clause as Follows: " Technical Bid Criteria & Evaluation: Integrated Command and Control Centre Solution (OEM Criteria): No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City/Defense Projects in India where the ICCC Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance/ITMS/Perimeter Intsuion Detction Systems(PIDS)/RADAR's etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis. (Copy of Completion Certificates from Client mentioning name of CCC Software.)	Tender conditions shall prevail.
Vol.1	2962	i2V Systems Pvt. Ltd	Volume1.pdf	Page:42	VMS (OEM Criteria): No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room and consisting of at least 1000 IP CCTV Cameras in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.(Copy of Completion Certificates from Client mentioning name of VMS Software.)	We hereby request you to allow us to Bid with Amendment to this Clause as Follows: "MS (OEM Criteria): No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City/Defense Projects in India where the VMS proposed by the Bidder is fully operational and integrated with Central Control Centre/ Room in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.(Copy of Completion Certificates from Client mentioning name of VMS Software.)"	Tender conditions shall prevail.
Vol.2	2963	i2V Systems Pvt. Ltd	Volume2.pdf	Page:103	5.1.4.12 VMS System Size: 2. The VMS OEM must have at least one project experience of minimum 2000 cameras in India. (PO copy required to be submitted).	We hereby request you to allow us to Bid with Amendment to this Clause as Follows: "The VMS OEM must have at least one project experience of minimum 500 cameras in India. (PO copy required to be submitted).	Tender conditions shall prevail
Vol.2	2964	i2V Systems Pvt. Ltd	Volume2.pdf	Page:117	5.2.2.1 Integrated Command Control Platform: 74. Smart City Platform/Software provider shall be reputed company and Member of Smart Cities Council or Navigant Research Report for Smart Cities Suppliers.	We hereby request you to please Ammend this Clause as Below : "Integrated Command Control Platform: 74. Smart City Platform/Software provider shall be reputed company and shall possess the Following Certificates with them 1. ISO 9001:2015 - Quality Management Systems Certificate 2. ISO 27001:2013 - Certificate 3. CMMI	Tender conditions shall prevail

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Vol.2	2965	i2V Systems Pvt. Ltd	Volume2.pdf	Page:230	5.4.2.1 Functional Requirement – Traffic Violation Detections System: c) The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India.	We hereby request you allow us to Bid with a request to allow: "Functional Requirement – Traffic Violation Detections System: c) The ITMS OEM should have supplied at least 100 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India."	The ITMS OEM should have supplied and deployed proposed system for atleast 500 ANPR systems, 100 RLVD systems and 200 SVD systems in India
Vol.2	2966	i2V Systems Pvt. Ltd	Volume2.pdf	Page:230	5.4.2.1 Functional Requirement – Traffic Violation Detections System: The ITMS Software should be NABL accredited lab for accuracy	We hereby request you to Kindly please Delete this Clause, as it is Specific to Single OEM & that technical Specification is being Favoured to Single OEM.	NABL Clause stands deleted. Please read the clause as In ITMS, SVD system should have proper test report and certificate (Legal Decree/type approval/homologation). The test reports/certificates should be provided by domestic/international labs who have mandate to provide the same for speed enforcement system. The test reports should be in compliance to OIMLR91, D11 and WELMEC 7.2 norms.
Vol.2	2967	Millennium Automation Private Ltd.	VOL II / 5.3.5 / Intranet Firewall with IPS / Clause no 1.3	180	Appliance must Support at least 15 Million Concurrent firewall connections on device from day 1	Appliance must Support at least 40 Million Concurrent firewall connections on device from day 1	Tender conditions shall prevail
Vol.2	2968	Millennium Automation Private Ltd.	VOL II / 5.3.5 / Intranet Firewall with IPS / Clause no 1.6	180	The Appliance must deliver the SSL/TLS inspection throughput of 4 Gbps.	The Appliance must deliver the SSL/TLS inspection throughput of 15 Gbps.	Clause deleted
Vol.2	2969	Millennium Automation Private Ltd.	VOL II / 5.3.5 / Intranet Firewall with IPS / Clause no 1.7	180	No limitation for client connecting using SSL VPN	Please delete this clause	The device should support 1000 SSL VPN clients from day-1
Vol.2	2970	Millennium Automation Private Ltd.	VOL II / 5.3.5 / Intranet Firewall with IPS / Clause no 2.2	181	The appliance must not have reported a backdoor vulnerability in OS in past five years	Please delete this clause	Clause deleted
Vol.2	2971	Millennium Automation Private Ltd.	VOL II / 5.3.5 / Intranet Firewall with IPS / Clause no 2.7	181	i) Firewall should have minimum 10 virtual contexts/VDOM	Please delete this clause	Tender conditions shall prevail
Vol.2	2972	Millennium Automation Private Ltd.	VOL II / 5.3.5 / Intranet Firewall with IPS / Clause no 3.5	182	IPS must deliver more than 10000 fingerprint situations for detecting exploit attempts against known vulnerabilities in protocol specific TCP/UDP port number	IPS must deliver more than 10000 fingerprint/20K DPI signatures situations for detecting exploit attempts against known vulnerabilities in protocol specific TCP/UDP port number	Clause deleted
Vol.2	2973	Millennium Automation Private Ltd.	VOL II / 5.3.6 / Next Generation Firewall / Clause no 8	184	Firewall should support at least 1000 VLANs	Firewall should support at least 500 VLANs	Tender conditions shall prevail
Vol.2	2974	Millennium Automation Private Ltd.	VOL II / 5.3.6 / Next Generation Firewall / Clause no 19	185	Should support Application Visibility and Control (AVC) supports more than 10000 application-layer and riskbased controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Should support Application Visibility and Control (AVC) supports more than 3500 application-layer and riskbased controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	Clause deleted
Vol.2	2975	Millennium Automation Private Ltd.	VOL II / 5.3.6 / Next Generation Firewall / Clause no 23	185	The solution must provide a full-featured NBA capability to detect threats emerging from inside the network (i.e. ones that have not passed through a perimeter IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines.	Please delete this clause	Clause deleted
Vol.2	2976	Millennium Automation Private Ltd.	VOL II / 5.3.6 / Next Generation Firewall / Clause no 24	185	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	Please delete this clause	Clause deleted

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Vol.2	2977	Millennium Automation Private Ltd.	VOL II / 5.3.6 / Next Generation Firewall / Clause no 25	185	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. On -premise Malware Behaviour Analysis appliance/Sandbox Solution should have integrated redundant power supply and mini-mum of 2 x 10 ports with populated transceivers as per design requirement.	The solution shall provide on-premise based sandbox technology where the objectionable content may be executed and inspected. The appliance based Sandbox should support 2200 web files/hour, 300-400 dynamic files/hour and 1 RU. The appliance Sandbox should support API.	Clause deleted
Vol.2	2978	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	89 of 400	Video management server, on which the VMS is hosted upon, shall run seamlessly in the background to manage connections, access and storage.	Video management server, on Linux operating system on which the VMS is hosted upon, shall run seamlessly in the background to manage connections, access and storage	Tender conditions shall prevail
Vol.2	2979	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	90 of 400	All the offered VMS and cameras shall have ONVIF compliance.	All the offered VMS and cameras shall have ONVIF compliance. VMS OEM must be ONVIF member with profile S, G and T complied	Tender conditions shall prevail
Vol.2	2980	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	90 of 400	The VMS shall be enabled for integration with any external Video Analytics Systems	The VMS shall have integrated Video Analytics Systems to optimise server hardware requirement.	As per RFP, Bidder to fulfil tender analytics requirement
Vol.2	2981	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	91 of 400	All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of high resolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	All CCTV cameras locations shall be overlaid in graphical map in the VMS Graphical User Interface (GUI). The cameras selection for live and archive viewing shall be possible via clicking in the camera location on the graphical map. The graphical map shall be of high- resolution enabling operator to zoom-in for specific location while selecting a camera for viewing.	As Per RFP Minimum Requirement mentioned in Tender, Bidder can propose better
Vol.2	2982	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	92 of 400	The VMS shall support retrieving data from edge storage. Thus, when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage.	The VMS shall support retrieving data from edge storage. Thus, when a lost or broken connection is restored, it shall be possible to retrieve the video from SD card and store it on central storage. Therefore the camera and VMS must be ONVIF profile G compliant	As Per RFP Minimum Requirement mentioned in Tender, Bidder can propose better
Vol.2	2983	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	93 of 400	VMS/ICCC shall support integration with the ANPR application.	VMS must have integrated ANPR application	It is required that the functionality is to be provided in totality, this may be by fighter by VMS / ICC / VA or any other application.
Vol.2	2984	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	93 of 400	VMS shall support integration with other online and offline video analytic applications	VMS must have integrated online and offline video analytic applications	Tender conditions shall prevail
Vol.2	2985	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	94 of 400	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Speed of the moving object v. Defined area entry/appearance and zone exit/disappearance	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Defined area entry/appearance and zone exit/disappearance	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion iv. Defined area entry/appearance and zone exit/disappearance
Vol.2	2986	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	94 of 400	Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection	Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools: a. Presence detection for moving and stopped vehicles b. Directional sensitive presence detection c. Congestion Detection d. Loitering detection e. Improper Parking f. Camera Tampering g. Abandoned objects detection h. Fire detection i. Smoke detection j. Face Capture k. Event against face with No Mask l. Event against not maintaining minimum guided social distancing m. Crowd detection	Better specifications are acceptable
Vol.2	2987	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	95 of 400	The user interface shall be via a GUI providing multiple video streams simultaneously on multiple monitors.	The user interface shall be via a GUI providing video streams simultaneously on multiple monitors. Thus VMS must be capable to handle up to 4 monitors with out video wall controller.	Better specifications are acceptable
Vol.2	2988	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	95 of 400	The system shall allow the viewing of recorded video from any camera on the system at whatever rate the camera was recorded.	The system shall allow the viewing of recorded video from any camera on the system at whatever rate the camera was recorded. It must be possible to view live and recorded view of many cameras simultaneously in a single GUI grid	Better specifications are acceptable

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Vol.2	2989	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	96 of 400	The GUI shall conform to standard Windows conventions	The GUI shall conform to standard Windows conventions. The client software must be possible to run on windows when server software is on Linux operating system for security issue.	Tender conditions shall prevail
Vol.2	2990	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	102 of 400	VMS shall be integrated within a consolidated GUI that would include other command control Center systems as well. All events, activations and alarms that occur with the VMS and its sub systems will interact seamlessly between the command and control center sub systems as required	VMS shall be integrated seamlessly with command control Center systems as well. All events, activations and alarms that occur with the VMS and its sub systems will interact seamlessly between the command and control center sub systems as required	Tender conditions shall prevail
Vol.2	2991	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	103 of 400	If an SDK solution / Object model is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / Object model shall be supplied with all required supporting software to allow the integration of the system with new devices and systems.	If an SDK solution / API is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / API shall be supplied with all required supporting software to allow the integration of the system with new devices and systems	If an SDK solution / API / Object Model is provided the system shall allow reconfiguration by (City) and end users without recourse to special languages. A system SDKs / API shall be supplied with all required supporting software to allow the integration of the system with new devices and systems
Vol.2	2992	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	103 of 400	Either the OPC or the SDK or Object Model shall manage the interface between the VMS, GUI and the other City Management systems as required.	VMS must have open API for any integration with any systems.	Tender conditions shall prevail
Vol.2	2993	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	103 of 400	The OPC or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vnder chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.	The API or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vnder chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.	The API or SDK or Object Model shall allow the operator workstations to control the VMS irrespective of the vnder chosen by duplicating all control functionality of the VMS used for normal day-to-day activities.
Vol.2	2994	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	103 of 400	If an OPC interface cannot be provided, an alternative solution shall be provided for this data using a standard open protocol and confirmation as to how this shall be implemented shall be provided in the technical proposal return	If an API interface cannot be provided, an alternative solution shall be provided for this data using a standard open protocol and confirmation as to how this shall be implemented shall be provided in the technical proposal return	Tender conditions shall prevail
Vol.2	2995	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	103 of 400	The VMS shall enable handling of up to at least 10,000 cameras for future scalability as may be required at additional cost of camera license.	The VMS shall enable handling unlimited cameras for future scalability as may be required at additional cost of camera license	Tender conditions shall prevail
Vol.2	2996	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	103 of 400	The VMS OEM must have at least one project experience of minimum 2000 cameras in India. (PO copy required to be submitted).	The VMS OEM must have at least one project experience of minimum 10000 cameras in India in a single project. (PO copy required to be submitted).	Tender conditions shall prevail
Vol.2	2997	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	106 of 400	VA should allow multiple instances of Client Viewer in a single workstation	VA should allow multiple instances of Client Viewer in a single workstation in VMS GUI	VA should allow multiple instances of Client Viewer in a single workstation in VMS GUI
Vol.2	2998	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	106 of 400	VA should be able to utilize multiple monitors connected to the workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)	VA should be able to utilize multiple monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)	VA should be able to utilize multiple monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Live viewing, Archive Search, Site map display, etc.)
Vol.2	2999	Videonetics (2nd set)	5.1.4 Video Management System (VMS)	106 of 400	VA should support multiple Video Analytics servers running on different machines.	VA should support multiple Video Analytics servers running on different machines. It must be possible to run VMS and analytics in same server for hardware optimisation	Tender conditions shall prevail
Vol.2	3000	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	The VMS OEM must have development centre in India for last 10 years. Incorporation certificate must be attached.	Tender conditions shall prevail
Vol.2	3001	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	The VMS OEM must submit minimum 10 nos of satisfactorily running certificate from any Govt/Railways/Airports/Police department.	Tender conditions shall prevail
Vol.2	3002	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	The system should allow the user to mark any important section of video as do not delete. This portion will need administration confirmation to delete in future	Tender conditions shall prevail
Vol.2	3003	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	It should be possible to view the activities on the operator screen from the supervisor/administrator screen, including all the windows open on the operator screen. It should also be possible to record the screen if required	Tender conditions shall prevail
Vol.2	3004	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	The VMS should support layered maps using standard picture files, GIS maps and online maps such as Google, Bing, Open street maps. It should be possible to drag and drop the cameras on the map for easy navigation	Tender conditions shall prevail

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Vol.2	3005	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	The VMS should show event notification from the cameras on the map itself. The operator should be able to click on the event notification of a particular camera on the map and the VMS should open the event window on the operator screen.	Tender conditions shall prevail
Vol.2	3006	Videonetics (2nd set)	5.1.4 Video Management System (VMS)		New Clause	The VMS shall be Codec, Operating systems (Linux and Windows and mix platform) and IP camera agnostic such that it can support devices that are not supplied by the manufacturer/developer of the VMS software and Codec hardware	Tender conditions shall prevail
Vol.1	3007	TNPL	VOL-1, Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'A'		A. The Sole Bidder shall have an average annual turnover of INR 250 Crore over the last three (3) financial years. In case of consortium: o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet INR 250 Crore Average Annual Turnover requirement	Request please add the following In case, consortium member is MSME of same field then average annual turnover relaxation INR 20 Crores for each MSME (not lead bidder) for last 3 years o All members together should meet INR 200 Crore Average Annual Turnover requirement MSMEs are the backbone of our country's growth strategy and in order to encourage and create a level playing field for MSME, the tendered is requested to allow eligible MSME to participate in the bid as consortium partner. The turnover criteria for MSME should be set such that they become eligible for participating in the bid. Average Annual turnover of around 20 crores indian rupees.	Tender conditions shall prevail.
Vol.1	3008	TNPL	Vol-1, Page 57, Table 1(Pre Qualification Requirements), SI No. 2 'B'		B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services	B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 100 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. o ICT Infrastructure o IT system integration services Reference CVC guidelines on procurement, the Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.	Tender conditions shall prevail.
Vol.1	3009	TNPL	Vol-1,Page 40, Clause 3.6.1- Technical Bid Criteria and Evaluation. SI No. B2		Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	The criteria should be made applicable to OEMs as it has been done for ICCC & VMS Request consider this requirement as only a handful System Integrators are creating eligibility for Smart City Projects and therefore restrict the entry of competent system integrators. Therefore the experience of OEM should be considered.	Refer to Addendum 7 (SI. No. 21)
Vol.1	3010	TNPL	Vol-1,Page 39, Clause 3.6.1- Technical Bid Criteria and Evaluation.			Request Please include Proven experience in designing and implementation of LAN and WAN networks using wired and wireless technologies This experience will be critical for success of any smart city project, especially given the challenging environment/terrain in Guwahati	Tender conditions shall prevail.
Vol.1	3011	TNPL	Vol-1,Page 39, Clause 3.6.1- Technical Bid Criteria and Evaluation.			Request Please Include At least 5 Experience in planning, designing, deployment and maintenance of wireless network This experience will be critical for success of any smart city project, especially given the challenging environment/terrain in Guwahati	Tender conditions shall prevail.

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Vol.1	3012	TNPL	Vol-1,Page 42, Clause 3.6.1- Technical Bid Criteria and Evaluation. Sl No. B6		The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 10 Crores per projects during last Seven (&) years (as on Bid Submission date)	Request Please ammed to The Sole Bidder or any consortium member (in case of consortium) have successfully designed, executed & commissioned and Operation Maintenance of Data Centre Project for any State/Central Government Department or Central/State PSUs/Smart City in India of minimum value of INR 5 Crores per projects during last Seven (&) years (as on Bid Submission date)	Tender conditions shall prevail.
Vol.2	3013	TNPL	Vol-2,Page 306, Clause 5.5.5, RF Connectivity, Sl. No. 7, Page 308, Clause 5.5.6, Sl. No. 6, Page 312, Clause 5.5.8 Sl. No. 5		Radio System should support Channel Bandwidth of 20,40,80 MHz	Request Please modify the clause Radio System should support Channel Bandwidth of 20,40 MHz 80Mhz for Point of Point or Point to Multipoint is not a recommended choice as its primarily used for Wi-Fi devices where range (less than 100 mts) and interference are minimum.	Radio System should support Channel Bandwidth of 20,40 MHz
Vol.2	3014	TNPL	Vol-2,Page 312, Clause 5.5.8 Sl. No. 41		Certification 1. MEP	Can you please elaborate on what is required here	Clause deleted
Vol.2	3015	TNPL	Vol-2, Page 210, 5.4.1.3		The system shall have a distributed architecture of subsystems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub-systems (minimum 2 and up to 250). Sub-areas are to be controlled by a regional computer.	Request Please ammend the clause The system shall have a distributed architecture so that signalized junctions can be appropriately grouped into Corridors. This requirement provided in this clause is SCATS (Sydney Coordinated Adaptive Traffic System) specific. Such architectural requirement is not needed for ATCS solutions used in India like CoSiCoSt (C-DAC) & SCOOT.	The system shall have a distributed architecture of sub- systems so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 100 Junctions and scalable to 256 Junctions
Vol.2	3016	TNPL	Vol-2, Page 210, 5.4.1.3		Up to 100 users should be able to connect to the central ATSC system and up to 30 users to regional computer controlling sub-systems with varying levels of security and access at the same time the proposed ATSC system shall be scalable to include any additional junctions in the future.	Please remove this clause This requirement is again SCATS specific which aagain in our view is not suitable for Indian Scenario . ATCS systems do not use Regional computers so there is no requirement for 30 regional users. an you also explain the need for 100 ATCS users to undertsna the requirement.	Min 25 users should be able to connect to the central ATSC system and controlling with varying levels of security and access at the same time.The proposed ATSC system shall be scalable to include any additional junctions in the future
Vol.2	3017	TNPL	Vol-2, Page 210, 5.4.1.3		When a link is established between two subsystems, the cycle generator of the subsystem linking is speeded up or slowed down (i.e. the cycle time of the subsystem is increased or decreased) until the specified relationship between the two subsystems is achieved. If a junction in a subsystem is required to change its grouping frequently depending on traffic conditions, it should be dynamically linked or delinked with other subsystems.	Request Please remove this clause This is not a generic requirement and specific SCATS system	Tender conditions shall prevail
Vol.2	3018	TNPL	Vol-2, Page 222, 5.4.1.4		d) 32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB	Request Please remove This is not a generic requirement. In an ATCS scenario, the requiremmt of 512 K flash and 128 K RAM and need for additional SD cards is not understood. This appears to be specific to some solution and is not needed to meet the objective of this RFP	Tender conditions shall prevail
Vol.2	3019	TNPL	Vol-2, Page 222, 5.4.1.4		The Traffic Signal Controller equipment should be 64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.	Request please remove 32 bit/64 bit This is not a generic requirement as it is specific to different systems based on computing requirements and power etc. The objective of ATCS as required in the RFP needs to be satisfied by the system deployed	The Traffic Signal Controller equipment should be 32/64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.
Vol.2	3020	TNPL	-2, Page 224, 5.4.1.6		Operating Temperature Range: As per NOIDA weather conditions Turn Off/Turn ON Time: 75 milli seconds max	Request Please remove this clause Typo error of NOIDA	Operating Temperature Range: As per Guwahati weather conditions Turn Off/Turn ON Time: 75 milli seconds max

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Vol.2	3021	TNPL	Vol-2, Page 225, 5.4.1.7		The ATCC system shall be deployed on city road primarily on city's entry, exit and at major points of intersection in NOIDA, the objective of the sub-system is to collect traffic data at major points.	Please provide the Quantity and Location of ATCC in BoQ type error of NOIDA to be corrected	The ATCC system shall be deployed on city road primarily on city's entry, exit point and other major points where other systems are not covered Guwahati.
Vol.2	3022	Amnex Infotechnologies Pvt Ltd	Vol-2/ 4.18 Geographical Information System (GIS) platform	40	SI shall provide GIS system and integrate it with ICCO or other systems. The SI will have to consult with GSCL and confirm what all GIS map/layer/dataset is available with the city. If the map/layer/dataset is not already available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc. as the part of this project. It will also be the scope of SI to develop component specific GIS layers/utilities as & when requested by GSCL. The SI will also be responsible to ensure that the GIS datasets are updated at regular frequency based on nature of datasets to ensure accuracy during the course of the entire project.	It is assumed that input data such as satellite imagery or drone imagery for preparation of GIS map/layer/dataset will be provided by client. Please clarify. If input imagery needs to be provided by SI, what is the resolution of imagery is expected to be procured. Kindly provide details. If imagery needs to be provided by SI than GCP for image rectification/processing will be provided by client or bidder have to conduct DGPS survey for GCP collection. Please clarify.	Tender conditions shall prevail
Vol.2	3023	Amnex Infotechnologies Pvt Ltd	Vol-2/ 4.18 Geographical Information System (GIS) platform	40	SI shall provide GIS system and integrate it with ICCO or other systems. The SI will have to consult with GSCL and confirm what all GIS map/layer/dataset is available with the city. If the map/layer/dataset is not already available or in the process of being created by the city, the SI will have to prepare the GIS base maps, layers and dataset for all the components, assets, properties, critical infrastructure etc. as the part of this project. It will also be the scope of SI to develop component specific GIS layers/utilities as & when requested by GSCL. The SI will also be responsible to ensure that the GIS datasets are updated at regular frequency based on nature of datasets to ensure accuracy during the course of the entire project.	Kindly provide scale at which mapping/preparation of layers and data sets needs to be carried out. It is assumed that datamodel for structured storage has already been developed or SI will be required to design and develop the datamodel. Please clarify. It is assumed that only the surface utilities mapping needs to be carried out and geo-referenced AsBuilt Diagrams in soft copy format (*.shp/*.DWG) of the infrastructure utility will be provided by concerned department with coordinate information. Please clarify. Requesting you to kindly provide the frequency for GIS data updation as it will generate input imagery requirement for updation.	Tender conditions shall prevail
Vol.2	3024	Amnex Infotechnologies Pvt Ltd	Vol-2/7.0 Data Centre (Hosted at State Data Centre)	399	7.1.4 GIS Enterprise Software	Please clarify whether COTS based or Open source Enterprise software is required. Kindly provide the Enterprise GIS software specification like number of cores etc.	Tender conditions shall prevail
Vol.1	3025	Amnex Infotechnologies Pvt Ltd	Vol-1/3.6.1 Technical Bid Criteria & Evaluation B2	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date) Components: <input type="checkbox"/> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND-OR <input type="checkbox"/> RLVD System / ANPR System Marks shall be allotted as below: Number of Projects Marks >= 3 Projects 10 2 Projects 8 1 Project 6	Refer to Addendum 7 (SI. No. 21)
Vol.2	3026	Aditya Infotech Ltd.	5.1.3.2/Fixed Bullet CCTV Cameras/14/Multiple Streams		Quad stream	Plz make it triple stream so that the camera cost should be appropriate and maximum OEM can participate	Multiple Streams: Minimum Three stream

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Vol.2	3027	Aditya Infotech Ltd.	5.1.3.2 Fixed Bullet CCTV Cameras		Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 5 Privacy masks, noise reduction, SNR >50 dB	Plz change image orientation to 180 deg & Mirroring as 90 deg, 270 deg image orientation is of no use, change to 4 Privacy masks to make it generic	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	3028	Aditya Infotech Ltd.	5.1.3.2 Fixed Bullet CCTV Cameras		Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, Crowd density estimation.	Plz remove crowd density estimation as it is very high compute analytics and edge base analytics are not so accurate so plz allow to use external VA Licenses to be used	Edge Analytics The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction
Vol.2	3029	Aditya Infotech Ltd.	5.1.3.3/ PTZ CCTV Cameras/11/ Multiple Streams		Quad stream	Plz make it triple stream so that the camera cost should be appropriate and maximum Oem can participate	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	3030	Aditya Infotech Ltd.	5.1.3.2 Fixed Bullet CCTV Cameras		Pan: 360° endless/continuous, up to 120°/s	PAN Speed should be more as it has to cover 360 deg so plz allow Pan Speed: 300° /s;	Better specifications are acceptable
Vol.2	3031	Aditya Infotech Ltd.	5.1.3.2 Fixed Bullet CCTV Cameras		Tilt: 3° ~ 90°, up to 300°/s	Tilt speed should be low as it has to cover only 90 deg so allow Tilt Speed : 200° /s	Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	3032	Aditya Infotech Ltd.	5.1.3.2 Fixed Bullet CCTV Cameras		Camera must have edge base analytics Viz; Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	Plz remove Loitering, Counting, Occupancy and Crowd density estimation as these need high compute and are not accurate on edge so plz allow external analytics	Edge Analytics The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction
Vol.2	3033	Veirnt CIS India Pvt Ltd	5.4.1.5 Camera /Thermal Vehicle Detector	223	5.4.1.5 Camera /Thermal Vehicle Detector	Please make it to 4D Radar. Camera cannot detect vehicles at long distance, cannot work FOG DARK, cannot work with dirt it is impossible that camera can full fill the functional requirement mentioned in (2, 3, 4) Also please mention the queue length and distance how much detector has to see. To make any city smart and work with Indian traffic it should be minimum 150 meters as city as on date already have more than 120 meters queue length in many junctions	Clause to read as 5.4.1.5 3D Radar /Thermal Vehicle Detector Point No 4, instead of camera read as Vehicle detector

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3034	Veirnt CIS India Pvt Ltd	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	226	Point 11-The ATCC system shall meet the following accuracy levels when compared with actual data collected using other means at each location of all the installed locations (minimum accuracy requirements) in day and night & in FOG & poor visibility situations. • Counting of vehicles: > 90% • Classification of vehicles (w.r.t. each class): > 80%	The functional requirements cannot be met by camera. It should be either thermal or Radar. Camera cannot work in FOG, poor visibility, with dirt on the face, rains, poor visibility (Twilight condition) and cannot see enough distance. REQUEST YOU TO PLEASE MAKE IT 4D radar and Add Range of 150 meter	Point 11-The ATCC system shall meet the following accuracy levels when compared with actual data collected using other means at each location of all the installed locations (minimum accuracy requirements) in day and night & in FOG & poor visibility situations. • Counting of vehicles: > 95% • Classification of vehicles (w.r.t. each class): > 95%
Vol.2	3035	Veirnt CIS India Pvt Ltd	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	226	18-ATCC shall be able to process simultaneously at least 100 vehicles and parallel passages of the vehicles at that location at a given point of time and provide queue length estimation for minimum 85 meters	It is important that vehicle detectors see at STOP LINE AND QUEUE together at 85 meter and detect queue length as well as do good analytics to reach results. This is not possible as cameras have limits. Please make it 4D radar make length estimation to 150 meters. In times of traffic 85 meters is nothing and System will work on saturation stage	Tender conditions shall prevail
Vol.2	3036	Veirnt CIS India Pvt Ltd	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	226	21-The ATCC should be able to count and classify the vehicles with minimum accuracy requirements for vehicles traveling between 20 kmph to 120 kmph speeds.	In dark, fog, bad light condition, twilight, dirt on camera it cannot work.. Camera is not capable to do this. Please add radar/thermal	Tender conditions shall prevail
Vol.2	3037	Veirnt CIS India Pvt Ltd	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	227	Classification in day, night and FOG conditions	Only radar can provide it with good accuracy as asked in bid All leading cities like Delhi, Mumbai and many other cities radars are shorted based on its performance. We request you to please allow the same	Solution shall work as per Guwahati weather condition
Vol.2	3038	Veirnt CIS India Pvt Ltd	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	236	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	Some of the specifications are closed. We request you to please allow certified cameras as per solution requirement as many features like protocols are not important	Tender conditions shall prevail
Vol.2	3039	Veirnt CIS India Pvt Ltd	5.4.2.6 ANPR HW Requirements	244	5.4.2.6 ANPR HW Requirements	Specifications like shutter speed and minimum illumination require is irrelevant as in ANPR shutter speed of 1/1000 or max 1/1000 cannot be used. More over similar very low illumination cannot be used because of various reasons.	1/25 TO 1/15000 SHUTTER SPEED
Vol.2	3040	Veirnt CIS India Pvt Ltd	5.4.2.6 ANPR HW Requirements	244	WDR Up to 140 dB	WDR should be less or not relevant as its IP camera	Clause to be read as WDR >= 120 Db for both ANPR & RLVD Camera
Vol.2	3041	Veirnt CIS India Pvt Ltd	5.4.3 Speed Violation Detection System (SVD)	249	5.4.3.2 Speed Violation Detection System Requirements	No TEST REPORTS OR CERTIFICATION/TYPE APPROVAL/LEGAL DECREE IS ASKED. PLEASE CONFIRM. We strongly suggest that to safeguard Client TEST reports and Certificates should be Must for the system.	Tender conditions shall prevail
Vol.2	3042	Veirnt CIS India Pvt Ltd	5.4.3 Speed Violation Detection System (SVD)	249	TEST REPORTS	We suggest that test reports in accordance to OIML R 91 & D11 and wemec 7.2 should be asked as it guarantees proper testing of proposed systems. Else only comparative reports will be submitted which are not good for fining citizens	Proper test Reports and Certification for Speed in accordance to OIML R 91 D11
Vol.2	3043	Veirnt CIS India Pvt Ltd	5.4.3 Speed Violation Detection System (SVD)	249	MAF	Please confirm if MAF of RADAR is also required.	MAF of RADAR is also required.

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3044	Veirnt CIS India Pvt Ltd	5.4.3 Speed Violation Detection System (SVD)	249	Minimum refrence	Can we quote for a new system or a minimum PQ is required.	Tender conditions shall prevail
Vol.2	3045	Veirnt CIS India Pvt Ltd	Volume 2: Scope of Work & Technical Specifications; 5.4.1.3 ATSC Software Application	210	The system shall have a distributed architecture of subsystems and structured so that signalized junctions can be appropriately grouped into sub-areas or sub-systems (minimum 2 and up to 250). Sub-areas are to be controlled by a regional computer.	Sir we would like to bring that entire specifications of the ATCS is mix and match of various technologies and trully speaking no company will qualify 100% .except who will give false compliance.	The system shall have a distributed architecture of sub- systems so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 100 Junctions and scalable to 256 Junctions
Vol.2	3046	Veirnt CIS India Pvt Ltd	Volume 2: Scope of Work & Technical Specifications; 5.4.1.3 ATSC Software Application	210	Up to 100 users should be able to connect to the central ATSC system and up to 30 users to regional computer controlling sub-systems with varying levels of security and access at the same time the proposed ATSC system shall be scalable to include any additional junctions in the future.	It looks SCATS but many other line items are cosi cot and many OCIT.. We strongly syggets you please also aprove the protocols	Min 25 users should be able to connect to the central ATSC system and controlling with varying levels of security and access at the same time.The proposed ATSC system shall be scalable to include any additional junctions in the future
Vol.2	3047	Veirnt CIS India Pvt Ltd	Volume 2: Scope of Work & Technical Specifications; 5.4.1.3 ATSC Software Application	212	When a link is established between two subsystems, the cycle generator of the subsystem linking is speeded up or slowed down (i.e. the cycle time of the subsystem is increased or decreased) until the specified relationship between the two subsystems is achieved. If a junction in a subsystem is required to change its grouping frequently depending on traffic conditions, it should be dynamically linked or delinked with other subsystems.	This requirement seems to SCATS specific. Composite Signal Control strategy as mentioned in RFP do not use regional computers.	Tender conditions shall prevail
Vol.2	3048	Veirnt CIS India Pvt Ltd	Volume 2: Scope of Work & Technical Specifications; 5.4.1.4 Traffic Signal Controller; Technical specification of controllers	222	d) 32bit processor with 2 MB or more flash as nonvolatile storage, 256 KB or more as RAM, with a provision of adding minimum 32 GB through an external SD Card/USB	It does not make sense and shodul be specific to the the technology. We also suggets to add 4.3 inch LCD and a Police panel which are must	Tender conditions shall prevail
Vol.2	3049	Veirnt CIS India Pvt Ltd	Volume 2: Scope of Work & Technical Specifications; 5.4.1.4 Traffic Signal Controller; Technical specification of controllers	221 & 222	2. b) The Traffic Signal Controller equipment should be 32/64-bit micro controller solid state traffic signal lamp switching module 10. The Traffic Signal Controller equipment should be 64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.	The Traffic Signal Controller equipment should be 32/64-bit . We strongly suggest to add SIL 3 certificate and all En Certifications along with ISO and refrence list of atleast 200 controlers etc in the project. Rather than closing it to a technology	10. The Traffic Signal Controller equipment should be 32/64-bit micro controller solid state traffic signal lamp switching module with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.
Vol.2	3050	Veirnt CIS India Pvt Ltd	Volume 2: Scope of Work & Technical Specifications; 5.4.1.6 Traffic Light Aspects	224	Operating Temperature Range: As per NOIDA weather conditions Turn Off/Turn ON Time: 75 milli seconds max	The specifications are from NOIDA.	Operating Temperature Range: As per Guwahati weather conditions Turn Off/Turn ON Time: 75 milli seconds max
Vol.1	3051	Veirnt CIS India Pvt Ltd	Volume 1: Instruction to Bidders; Annexure 6 - Consortium Agreement	93	The Parties shall be jointly and severally responsible and bound towards the Authority for the performance of the works in accordance with the terms and conditions of the BID document, and Contract.	Kindly Modify the clause as below: "Lead bidder is responsible and liable for full scope of work & Consortium Member is responsible and liable for their scope of work"	Tender conditions shall prevail.
Vol.1	3052	Pace Power Systems Pvt. Ltd. (2nd set of query)	Valume- 01 Section 2.8	16	The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only) through Internet Banking from State Bank of India (SBI) or any other banks listed at SBMOPS on https://assamtenders.gov.in or NEFT/RTGS in case of offline payment from any Bank.	It is requested to change this clause to allow EMD in Bank Guarantee Form as in this COVID-19 situation we need support.	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	3053	Pace Power Systems Pvt. Ltd. (2nd set of query)	Volume- 01 Section 3.5 Sr. No. 3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed (Supply or completed) at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India or abroad	Refer to AddendumVI
Vol.1	3054	Pace Power Systems Pvt. Ltd. (2nd set of query)	Volume -01 Section 3.5 point 2	33	Clause 3.5 Pre qualification criteria: Consortium members point 2: An Indian Firm	Since many Good global technology providers wants to be consortium members also which will add to the strength of the technical solution and implementation capacities and so request to allow Foreign companies to be consortium members	Tender conditions shall prevail.
Vol.1	3055	Pace Power Systems Pvt. Ltd. (2nd set of query)	Volume -01 Section 3.5 Point 4:	33	Clause 3.5 Pre qualification criteria: Point 4: In operations in India for a period of at least 3 years as on date of bid submission	To be modified as: Since this clause is limiting any global players who has good solution and willing to come to India now and request to modify as follows: In operation in relevant field globally anywhere for a period of at least 3 years as on date of Bid submission	Tender conditions shall prevail.
Vol.1	3056	Pace Power Systems Pvt. Ltd. (2nd set of query)	Volume-01 Section 3.6.1 Sr. No. B4.2	42	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid.	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India or in any Global city where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid.	Refer to AddendumVI
Vol.2	3057	Pace Power Systems Pvt. Ltd. (2nd set of query)	Gen.			Please also allow any project done by consortium in any city of world as such completed projects in India are very few. Allowing Global companies to bring in their technology solutions will provide best value for money to Guwahati Smart city	Tender conditions shall prevail
Vol.1	3058	Innefu Labs Private Limited	Vol 1 /1.3. Bid Data Sheet /12. EMD VX clause 2.8 & Page 16 of 204	Page 7 of 104 Vs page 16 of 104	Bid Security/Earnest Money Deposit (EMD) INR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) Vs Clause number 2.8 EMD where its mentioned that 2.8. Earnest Money Deposit (EMD) The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,59,00,000/- (Rupees Two Crore, Fifty-Nine Lakhs only)	Authorities are requested to clarify the amount of EMD if its INR 2.15 CR or INR 2.59 CR	EMD amount shall be INR 2,15,00,000/- Bidder to Refer Point 1.01 of Amendment 01.
Vol.1	3059	Innefu Labs Private Limited	Vol-1/2.6/2.6.2	page 15 of 104	Responses to Pre-Bid Queries and Issue of Corrigendum. No Prebid meeting shall be held. Bidders to submit all queries properly described with required references to GSCL which will be replied appropriately on e-procurement portal.	Request for a formal pre-bid meeting as there are many clarifications and queries that requires a face to face interaction between the bidders / OEMS and tendering authorities	Tender conditions shall prevail.
Vol.2	3060	Innefu Labs Private Limited	Volume-2/4.20 Edge Analytics	Page 42 of 400	The SI will be responsible for designing and implementing edge analytics at camera level. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) Gesture recognition: Identification through gesture change 2. Wrong way or illegal turn detection at ITMS Signal Crossing.	Such analytics on the edge level will limit the camera OEMS and may not give the desired results. Authorities are requested to allow analytics either on EDGE or on Video analytics Application as applicable in order to allow the 100% openness, interpretability and integration between Cameras, VMS and Video analytics platform. The independent video analytics, apart from the list of required VA use cases, the VAS system must support following additional use cases must be readily available in the existing library of AI based VA use cases from day one including but not limited to Contact Tracing Safety mask detection Social Distancing detection Safety vests/helmet detection Weapon detection Gender detection and alert in case un-even gender ration (say 1 female VS 2 or more men) in a given field of view	Edge Analytics The SI will be responsible for designing and implementing edge analytics at either at camera level or server level. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, scene change g) Follow route h. Wrong way or illegal turn detection.
Vol.2	3061	Innefu Labs Private Limited	Vol-2/5.1.4	page 90 of 400	7. The VMS shall be enabled for integration with any external Video Analytics Systems.	we Request authorities to ask for Latest Artificial Intelligence based Video analytics instead of any "external Video Analytics"	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3062	Innefu Labs Private Limited	vol-2/5.1.4	Page 92 of 400	<p>28. The VMS shall be capable of intrusion detection: Detection of moving objects in selected areas covered by the camera (those that are specified as restricted areas like those before some major events, etc.). Avoid false alarms due to wildlife or other moving objects (e.g., tree leaves).</p> <p>29. The VMS shall be capable of tracing of a specific person or object in multi-camera videos: Track a specific person or object across several surveillance (e.g., to trace and identify criminals and/or anti-social elements).</p> <p>30. The VMS shall be capable of counting of people and detection of abnormal crowd behavior: Detection of people flow and counting of people in selected areas. To identify abnormal crowd behavior and raise alarms to avoid untoward incidences in public places and maintaining law & order.</p>	<p>Since Video Analytics (as requested VA system on AI based algorithm), the asked use cases must come under the scope "Artificial intelligence based Video analytics systems".</p> <p>The given clause gives impression that the asked video analytics are asked from Video Management system.</p> <p>Authorities are requested to separate the VA requirements from VMS requirements, both; being two different and separate applications</p>	It is required that the functionality is to be provided in totality, this may be by fighter by VMS / ICCCL / VA or any other application.
Vol.2	3063	Innefu Labs Private Limited	vol-2/5.1.4.1	page 93 of 400	<p>3. Video Analytics (VA) alert management – Shall enable defining of rules for handling of alerts using the VA handling of events as per the defined rules.</p>	<p>in the light and reference to the sub clause nos 7 & 37 of clause 5.1.4 - Video Management System, the Video analytics must be a core component of image and video analytics part however this must be integrated with VMS system using open API interface</p>	It is required that the functionality is to be provided in totality, this may be by fighter by VMS / ICCCL / VA or any other application.
Vol.2	3064	Innefu Labs Private Limited	vol-2/5.1.4.1	page 93 of 400	<p>Addition request 5.1.4.1.1 Integration Components</p>	<p>5.1.4.1.1 Integration Components: - The Video management System shall expose its developers API and integration interfaces to the following components</p> <p>1. AI Based Video Analytics (VA) alert management – shall enable defining of rules for handling and alerting using the VA handling of events as per the defined rules</p> <p>2. AI based Face recognition system – shall enables integrated interfaces for rules of the suspect matching, recognizing and alerting using the FRS handling of FRS events as per defined rules in both on-line and off-line modes. Pls refer to the functional requirements for VA and FRS for more details in the relevant sections of this document</p>	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3065	Innefu Labs Private Limited	5.1.4.2 VMS General	Page 94 of 400	<p>6. Video management software shall incorporate online video analytics on live video images. It shall include the following video analytics detection tools:</p> <ol style="list-style-type: none"> Presence detection for moving and stopped vehicles Directional sensitive presence detection Congestion Detection Loitering detection Improper Parking Camera Tampering Abandoned objects detection <p>7. Off-Line Video Analytics should allow for quick retrieval of video footage to metadata stored with each image. System should provide results within few seconds, system should support for below listed the user's query.</p> <p>a) System should allow to specify the following search criteria:</p> <ol style="list-style-type: none"> Motion in the zone, user-defined with any polyline Detection of crossing a virtual line in a user-defined direction Loitering of an object in an area Simultaneous presence of a few objects in an area Motion from one area to another. <p>b) System should support to apply below listed filters to search results:</p> <ol style="list-style-type: none"> Object size Object color Direction of object motion Speed of the moving object Defined area entry/appearance and zone exit/disappearance 	<p>note, the use cases are belongs to Video analytics system which may be a separate system /a application other than VMS. The VMS needs to provide API / integration interface to facilitate the above use cases.</p> <p>In the respect system openness and in the light and reference to the sub clause nos "7 & 37 of clause 5.1.4 - Video Management System", the Video analytics must be a core component of image and video analytics part however this must be integrated with VMS system using open API interface</p>	It is required that the functionality is to be provided in totality, this may be by fighter by VMS / ICCCL / VA or any other application.
Vol.2	3066	Innefu Labs Private Limited	5.1.4.2 VMS General		Clause 6 & 7 Video Analytics use cases as above	<p>The independent video analytics and facial recognition system shall support following Analytics based on artificial intelligence for the Cameras: All Vehicle and traffic related analytics shall be supported by ITMS system independently</p> <p>Apart from the list of required VA use cases, the VAS system must support following additional use cases must be readily available in the existing library of VA use cases from day one including but not limited to</p> <ul style="list-style-type: none"> Contact Tracing Safety mask detection Social Distancing detection Safety vests/helmet detection Weapon detection <p>The VMS needs to Expose / accept / provide API / integration interface to facilitate the alert for VA events as configured.</p>	Better specifications are acceptable
Vol.2	3067	Innefu Labs Private Limited	Vol-2/5.1.4.14	Page 105 of 400	General - Clause addition request	All Video analytics shall be Artificial intelligence powered with Deep learning capabilities	Tender conditions shall prevail
Vol.2	3068	Innefu Labs Private Limited	5.1.4.14	Page 105 of 400	General - Clause addition request	All Video analytics shall be Artificial intelligence powered with Deep learning capabilities	Tender conditions shall prevail
Vol.2	3069	Innefu Labs Private Limited	5.1.4.14	Page 106 - 400	Clause addition request: - Access & Authentication	The system shall allow two factor authentications for deleting / exporting / and - or changing any critical system setting related to VA alerts and events data.	Tender conditions shall prevail
Vol.2	3070	Innefu Labs Private Limited	5.1.4.14	Page 106 - 400		Other than the user password, the system must include at-least one additional authentication factor including biometrics, Mobile notifications or a hard token configured for same or additional administrator level user.	Tender conditions shall prevail
Vol.2	3071	Innefu Labs Private Limited	5.1.4.14	Page 106 - 400		Such activity shall be logged in the local system as well as in the main database	Tender conditions shall prevail

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Vol.2	3072	Innefu Labs Private Limited	5.1.4.14	Page 106 - 400		The system should be able to identify and authenticate users based on multi factor authentication which shall be accessible in any combination of a user password plus Hard Token based authentication, /Mobile Notification /Soft Token Access authentication /Push notification or SMS based authentication (such as OTP)	Tender conditions shall prevail
Vol.2	3073	Innefu Labs Private Limited	5.1.4.14	Page 106 - 400		The proposed solution should provide the ability to assign different security levels to people and places. It should alert security staff when someone is spotted in an area where they're not permitted, whilst allowing them free access to non-restricted/public areas.	Tender conditions shall prevail
Vol.2	3074	Innefu Labs Private Limited	5.1.4.14	Page 107 - 400	Clause Addition request - Reporting & Dashboarding	The user interface of the facial recognition system should have a report management tool and Customized Dashboard without installation of any additional client software. It should be able to generate multiple reports as per customer requirements in real- time. The Dashboard shall have flexible widgets for quick summary of incidents, events and alerts	Tender conditions shall prevail
Vol.2	3075	Innefu Labs Private Limited	5.1.4.14	Page 107 - 400		The Client User Interface must provide a flexible and user-friendly Dashboard that shall be pre-configured with multiple widgets as an essential aspect of home screen customization. Different levels of users shall be able to pick and choose the different widgets as per their requirements for effective use of the application	Better specifications are acceptable
Vol.2	3076	Innefu Labs Private Limited	5.1.4.14	Page 107 - 400	General - Clause addition request	The system should be an independent system, with capability to integrate with industry standard Video Management Systems (VMS) for alert viewing.	Better specifications are acceptable
Vol.2	3077	Innefu Labs Private Limited	5.1.4.14	Page 107 - 400	General - Clause addition request	The system must be accessible & operable from a web-based interface compatible with all leading browsers. Owing to its web-based interface the facial recognition system should be accessible from virtually unlimited concurrent clients at any given time.	Better specifications are acceptable
Vol.2	3078	Innefu Labs Private Limited	5.1.4.14	Page 107 - 400	General - Clause addition request	The system should be an independent system, with capability to integrate with industry standard Video Management Systems (VMS) for alert viewing.	Better specifications are acceptable
Vol.2	3079	Innefu Labs Private Limited	5.1.4.14	Page 107 - 400	General - Clause addition request	The system must be accessible & operable from a web-based interface compatible with all leading browsers. Owing to its web-based interface the facial recognition system should be accessible from virtually unlimited concurrent clients at any given time.	Better specifications are acceptable
Vol.2	3080	CINEWORTH Sales & Service	Volume-2/4.20 Edge Analytics	42	The SI will be responsible for designing and implementing edge analytics at camera level. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) Gesture recognition: Identification through gesture change 2. Wrong way or illegal turn detection at ITMS Signal Crossing.	All the analytics mentioned for the cameras is possible by software , all analytics is difficult on edge based. Also Video Nalytics software has been mentioned on Page 105 of the tender, which states software based analytics, Thus requesting you to amend the clause to: The SI will be responsible for designing and implementing analytics on the camera by Video analytics Software Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) Gesture recognition: Identification through gesture change 2. Wrong way or illegal turn detection at ITMS Signal Crossing.	Edge Analytics The SI will be responsible for designing and implementing edge analytics at either at camera level or server level. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, scene change g) Follow route 2. Wrong way or illegal turn detection.
Vol.2	3081	CINEWORTH Sales & Service	Volume 2 5.1.3.1 Dome CCTV Cameras	71	5.Iris: Automatic with manual override or P-Iris	DC-Iris is majorly used by the majority of the OEMs. Thus, requesting to kindly provide DC Iris as well in the option and help to amend the clause to Iris: Automatic with manual override or P-Iris or DC-Iris.	Refer to Addendum IV
Vol.2	3082	CINEWORTH Sales & Service	Volume 2 5.1.3.1 Dome CCTV Cameras	73	21.Security: 4.FTP disabled	FTP function should be an option to open, which can work with FTP sever to capture picture. Thus, requesting to provide an option to open the FTP	Tender conditions shall prevail
Vol.2	3083	CINEWORTH Sales & Service	Volume 2 5.1.3.1 Dome CCTV Cameras	73	26.Certification:UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	CE and EN certificate are equivalent ,which are European standard certificates. declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, thus, requesting to amend the clause to Certification:UL, EN/CE, FCC, RoHS, ONVIF profile S, G & T	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3084	CINEWORTH Sales & Service	Volume 2 5.1.3.1 Dome CCTV Cameras 5.1.3.2 Fixed Bullet CCTV Cameras 5.1.3.3 PTZ CCTV Cameras	73,77,80	OEM Criteria : • OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years. • OEM without any JV/ Distributor Should have their own service center in India since Last 7 years. • Camera should have MTBF of minimum 7 years duly certified by NABL Accredited LAB or international reputed LAB.	As per Govt of India, Ministry of Commerce & Industry, Public Procurement (Preference to Make in India) Order 2017 - Latest Amendment Dt: 04 Jun 2020, government of India urges & allows JV of Indian Suppliers with foreign companies in-order to increase the participation of local employees in services & Training them in India, so we hereby request you to amend below point " OEM without any JV/ Distributor Should have their own registered office in India since Last 7 years " & " OEM without any JV/ Distributor Should have their own service center in India since Last 7 years " to " OEM with JV Should have their own registered office in India since Last 7 years " & " OEM with JV Should have their own service center in India since Last 7 years ". • Camera should have MTBF of minimum 7 year can be self certified by OEM	The OEM without any JV/Distributor should have their registered office in India for atleast 10 years and should have been operating own service centre and RMA in India from the last 10 years as on RFP date. It should be on same OEM name throughout the 10 year period Clause to be read as Camera shall have MTBF (life of Camera) min 7 years, OEM to submit test report duly signed with MTBF values certified by 3rd party electronic reliability prediction software(Siemens / GE)
Vol.2	3085	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	74	6.Iris: Automatic with manual override or P-Iris	DC-Iris is majorly used by the majority of the OEMs. Thus, requesting to kindly provide DC iris as well in the option and help to amend the clause to Iris: Automatic with manual override or P-Iris or DC-Iris.	Refer to Addendum IV
Vol.2	3086	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	75	14.Multiple Streams: Quad stream	Triple streams are enough to serve the purpose of the surveillance, also it will be economical, thus , requesting you to ammend Video streams to Multiple Streams: Triple stream	Multiple Streams: Minimum Three stream at 1080p @25 fps with H.265
Vol.2	3087	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	75	16.Auto adjustment + Remote Control of Image settings : 5 Privacy mask	4 privacy mask are enough to serve the purpose of the surveillance, also it will be economical, thus , requesting you to ammend to 4 Privacy mask	Auto adjustment + Remote Control of Image settings I: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
Vol.2	3088	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	75	18.Wide Dynamic Range > 120 dB or Better	120db WDR are enough to serve the purpose of the surveillance and is standard in the industry , thus , requesting you to ammend to Wide Dynamic Range : 120 dB or Better	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
Vol.2	3089	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	75	21.Security: 4.FTP disabled	FTP function should be an option to open, which can work with FTP sever to capture picture.Thus, requesting to provide an option to open the FTP	Tender conditions shall prevail
Vol.2	3090	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	75	21.Security: 6. Any of the security certifications of IEC/EN/UL - 60950-1 /60950-22, IEC-62471	The IEC 62471 series of standards are generally used to evaluate the potential photobiological (interaction of light on living beings) hazards from LED radiation in products, which is not common certification, thus requesting to remove IEC-62471 certificate from this clause.	Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T for all cameras and IEC 62471 for bullet camera
Vol.2	3091	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	75	22.Analytics: Enter / leave field,Crowd density estimation	As video analytics software has been propose on Page no.105, requesting to provide an option to propose this analytics on software level.	Edge Analytics for all surveillance Cameras (Fixed and PTZ) The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneoulsy in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction 2. Wrong way or illegal turn detection.
Vol.2	3092	CINEWORTH Sales & Service	Volume 2 5.1.3.2 Fixed Bullet CCTV Cameras	76	27.Certification:UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T	CE and EN certificate are equivalent ,which are European standard certificates,declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, thus, requesting to ammend the clause to Certification:UL, EN/CE, FCC, RoHS, ONVIF profile S, G & T	Tender conditions shall prevail

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Vol.2	3093	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	77	6.Iris: Automatic with manual override or P-Iris	DC-Iris is majorly used by the majority of the OEMs. Thus, requesting to kindly provide DC iris as well in the option and help to ammend the clause to Iris: Automatic with manual override or P-Iris or DC-Iris.	Refer to Addendum IV
Vol.2	3094	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	77	10.Lens: Auto-focus, 4.3 – 129 mm (-/+ 1mm) (corresponding to 30 X)	To have 200m IR , the focal length of the lens option should be made flexible, thus reesting to ammend the clause to provide PTZ wuth 30x optical zoom or better	Tender conditions shall prevail
Vol.2	3095	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	78	11.Multiple Streams: Quad stream	Triple streams are enough to serve the purpose of the surveillance, also it will be economical, thus , requesting you to ammend Video streams to Multiple Streams: Triple stream	Multiple Streams: Minimum Three stream
Vol.2	3096	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	78	14.Wide Dynamic Range > 120 dB or Better	120db WDR are enough to serve the purpose of the surveillance and is standard in the industry , thus , requesting you to ammend to Wide Dynamic Range : 120 dB or Better	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
Vol.2	3097	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	78	17.Tilt: 3° ~ 90°, up to 300°/s	The PTZ is recommended to be with in-built IR. Thus, the PTZ camera with IR is not recommended to have such high Tilt speed. This might create shadow image when performing Tilt operation as such speed. Thus, recommended Tilt speed for the IR PTZ should be - Pan Preset Speed - 120°/s	Tilt: 3° ~ 90°, up to 100°/s or better
Vol.2	3098	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	79	24.Security: 4.FTP disabled	FTP function should be an option to open, which can work with FTP sever to capture picture.Thus, requesting to provide an option to open the FTP	Tender conditions shall prevail
Vol.2	3099	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	79	24.Security: 6. Any of the security certifications of IEC/EN/UL - 60950-1 /60950-22, IEC-62471	The IEC 62471 series of standards are generally used to evaluate the potential photobiological (interaction of light on living beings) hazards from LED radiation in products, which is not common certification, thus requesting to remove IEC-62471 certificate from this clause.	Certification: UL, EN, CE, FCC, RoHS, ONVIF profile S, G & T for all cameras
Vol.2	3100	CINEWORTH Sales & Service	Volume 2 5.1.3.3 PTZ CCTV Cameras	79	26.Camera Analytics: Camera must have edge base analytics Viz: Enter / leave field, Loitering, Line Crossing, follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation. Bidder to ensure minimum 8 Different types of analytics shall run simultaneously in each Camera.	As video analytics software has been propose on Page no.105, requesting to provide an option to propose this analytics on software level.	Edge Analytics for all surveillance Cameras (Fixed and PTZ) The SI will be responsible for designing and implementing edge analytics at camera level. Bidder to ensure minimum 8 analytics to run simultaneously in each camera. Following listed use cases should be part of implementation and should be not be limited to: 1. Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) people counting, e) line crossing, f) Idle/removed object, enter field, similarity search, scene change g) Route direction 2. Wrong way or illegal turn detection.
Vol.2	3101	CINEWORTH Sales & Service	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD)Systems	237	f.Lens - Auto IRIS 5~50mm /8 – 40 mm, F1.4	For the RLVD system, the capture point is most important, too far away or too near are both not suitable. And there are many different the focal length of lens for RLVD, such as 11~40mm. IF only limit the range of focal length into larger than 5~50mm, then it will limit your choice and add your cost. So suggest you to ammend the Auto IRIS 5~50mm /11 – 40 mm, F1.4	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement
Vol.2	3102	CINEWORTH Sales & Service	5.4.2.5 Technical Specification - ANPR SW Requirements. 5.4.2.6 ANPR HW Requirements	244	3.Lens & Resolutions: 5-50mm Lens & 2-MP - 1920x 1080p	For the ANPR system, the capture point is most important, too far away or too near are both not suitable. And there are many different the focal length of lens for ANPR, such as 11~40mm. IF only limit the range of focal length into larger than 5~50mm, then it will limit your choice and add your cost. So suggest you to ammend the Auto IRIS 5~50mm /11 – 40 mm, F1.4	Clause to be read as Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p for both ANPR & RLVD Camera, bidder can select as per requirement

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Vol.2	3103	CINEWORTH Sales & Service	5.4.2.5 Technical Specification - ANPR SW Requirements. 5.4.2.6 ANPR HW Requirements	245	14.Video Compression: H.264, H.265, MPEG-4 & MJPEG	MPEG-4 is an old technology which is obsolete, thus, requesting to remove MPEG-4	Clause to be read as MJPEG, H.264/ H.265 for both ANPR & RLVD Camera
Vol.2	3104	CINEWORTH Sales & Service	5.4.2.5 Technical Specification - ANPR SW Requirements. 5.4.2.6 ANPR HW Requirements	245	18.Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream) Mainstream: 2MP @50 FPS to 60 FPS, Sub stream: D1@ 50FPS to 60 FPS	Sub Stream resolution are used for remote viewing with limited bandwidth , such hif=gh fps of 60/50fps is not recommended thus, requesting to ammend the clause to Substream: D1 @ 25/30fps	Clause to be fully configurable 18. Image Resolution (Primary stream) Resolution (Secondary stream) Resolution (Mobile stream): Mainstream: H.264,2MP @50 FPS to 60 FPS, Sub stream: H.264,2MP @50 FPS to 60 FPS at configurable bandwidth for both ANPR & RLVD Camera
Vol.2	3105	CINEWORTH Sales & Service	5.4.2.5 Technical Specification - ANPR SW Requirements. 5.4.2.6 ANPR HW Requirements	246	26.LED type : 12 pieces dot matrix array LED or better	12 pieces dot matrix array LED is brand specific, for ANPR camera Supplement light is enough , no need to limit LED number, thus, requesting to remove this clause.	Clause stands deleted
Vol.2	3106	CINEWORTH Sales & Service	5.4.2.7 IR – Illuminator (In case of Separate IR)	246	2.Wavelength Type : 850 nm semi-covert	Semi covert type of IR illuminator is brand specific, in order to stand fair chance for other OEM's to bid, requesting to make generic clause and ammend to Type : 850 nm IR Housing	Bidder to consider the separate illuminator as per RFP Specs, 850nm is IR Standard wavelength for both ANPR & RLVD Camera
Vol.2	3107	CINEWORTH Sales & Service	5.4.2.7 IR – Illuminator (In case of Separate IR)	246	3.Beam Angles: 10°, 20°, 30°, 60°, 80°, and 95°	As beam angles differ OEM to OEM, requesting to provide an option as aper OEM to serve the purpose.	Tender conditions shall prevail
Vol.2	3108	CINEWORTH Sales & Service	5.4.3 Speed Violation Detection System (SVD), 5.4.3.6 Radar Requirements	252	a) The proposed violation detection device shall be of 4D tracking radar	3D tracking radar is mostly used in SVDS, thus , requesting to provide an option of using 3D radar along with 4D radar	Tender conditions shall prevail
Vol.2	3109	CINEWORTH Sales & Service	5.4.3 Speed Violation Detection System (SVD), 5.4.3.6 Radar Requirements	252	b) The detection device shall automatically monitor the speeds of each and every individual vehicle up to 4 traffic lanes simultaneously.	RADAR and Supplement light for better system performance is recommended to have one lane per unit,thus, requesting to ammend the clause to The detection device shall automatically monitor the speeds of each and every individual vehicle up to one traffic lane.	Tender conditions shall prevail
Vol.2	3110	CINEWORTH Sales & Service	5.4.3 Speed Violation Detection System (SVD), 5.4.3.6 Radar Requirements	253	Technology: 4D Object Tracking (Range, Angle, Speed, Time) with UHD Resolution, independent discrimination of multiple targets at same speed and same range	3D tracking radar is mostly used in SVDS, thus , requesting to provide an option of using 3D radar along with 4D radar	Tender conditions shall prevail
Vol.2	3111	CINEWORTH Sales & Service	5.4.3 Speed Violation Detection System (SVD), 5.4.3.6 Radar Requirements	253	SimultaneouslyTrackedObjects: 100 or higher	Simultaneously tracking of 100 objects is not that much required, thus, requesting to ammend the clause to providing speed of all the vehicles of the respective lane through RADAR.	Tender conditions shall prevail
Vol.2	3112	CINEWORTH Sales & Service	5.4.3 Speed Violation Detection System (SVD), 5.4.3.6 Radar Requirements	254	d) The digital camera must be capable of producing high quality optical color images, without the need for digital image enhancement, over a minimum of 4 traffic lanes in any direction such that:	Single camera to capture 4 Traffic lanes will cause accuracy issue, different OEM have different solution, 9MP camera for SVDS can capture upto 2 traffic lanes, thus, requesting to accept.	Bidder can suggest solution to achieve high accuracy

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Vol.2	3113	CINEWORTH Sales & Service	5.4.3.8 Flash Unit Requirements	254	a) The System shall be completed with at least 1 flash unit to provide the necessary lighting for a visible photograph to capture vehicle on a minimum 4 lanes traffic road, and the intensity is based on the ambient light level detected by the system	Flash Unit for better system performance is recommended to have one lane per unit,thus, requesting to amend the clause to The System shall be completed with at least 1 flash unit to provide the necessary lighting for a visible photograph to capture vehicle on a minimum 1 lane traffic road, and the intensity is based on the ambient light level detected by the system	a) The System shall be completed with IR Technology to provide the necessary lighting for a visible photograph to capture vehicle to cover all lanes as per bidder solution and the intensity is based on the ambient light level detected by the system
Vol.2	3114	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	85	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Since camera have 10/100 Ethernet port we suggest to keep switch port to 10/100. also please remove combo port and keep gigabit SFP port only. Request you to kindly do the needful.	Tender conditions shall prevail
Vol.2	3115	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	85	150 W for better	Suggest to make it 240Watt, so can 30watt per port PoE output	This is minimum requirement, bidder can propose better solutions
Vol.2	3116	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	85	a) Ring Protocol - Ethernet Ring Protection, G.8032 ready. b) Static Routing Protocols c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1. d) Layer 3 multicast routing from day 1	b) Static Routing Protocols c) Dynamic Routing Protocol – OSPFv2 & OSPF v3 from day 1. d) Layer 3 multicast routing from day 1 . These all are Layer 3 Protocol and ask switch is Layer 2 which will installed at Edge level hence please remove as its OEM specific.	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) Dynamic Routing Protocol OSPFv2 & OSPF v3 from day 1 d) Layer 3 multicast routing from day 1
Vol.2	3117	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, , Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	TFTP, MACsec is OEM speciifc need to remove as comes in Enterprise switch. request you to kindly remove the same.	Tender Conditions shall prevail
Vol.2	3118	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3bt. - its POE 90Watt Standard Per Port, and none of the POE devices like camera or wifi require such hi PoE output hence remove the same. Also Switch total PoE budger mention is 120W, if consider the mention standard than PoE budget will be 360Watt, which is practically not correct. hence kindly remove the IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP),IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.
Vol.2	3119	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	128 MB RAM	This Parameter varies OEM to OEM hence request to Remove	This is minimum requirement, bidder can propose better solutions
Vol.2	3120	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	1 GB, Flash Memory	This Parameter varies OEM to OEM hence request to Remove	Tender conditions shall prevail

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Vol.2	3121	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	86	Internal power supply	POE Switch require External 48VDC to get PoE out put, clausue has to be change as " Switch should have dual redundant power Input ".	Tender conditions shall prevail
Vol.2	3122	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	87	0 Degree C or better		Tender conditions shall prevail
Vol.2	3123	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	87	+ 70 Degree C or better	Suggest to consider the 60 Degree Temprature considering Indian Environment	Tender conditions shall prevail
Vol.2	3124	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	87	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	Suggest to consider 5 to 95%	Tender conditions shall prevail
Vol.2	3125	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.7 PoE+ Switches (Industrial - Rugged) – 8 Port	87	FCC or CE compliance Ingress Protection-IP30	Sugges to consider UL and NEMA-TS as this certification used for the outdoor application. Also add EMI/EMC standard.	Tender conditions shall prevail
Vol.2	3126	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	83	4 x 10/100/1000 (PoE+) + 2 x combo Gigabit SFP, Switch should support MSA Compliant Rugged SFPs	Since camera have 10/100 Ethernet port we suggest to keep switch port to 10/100. also please remove combo port and keep gigabit SFP port only. Request you to kindly do the needful.	Tender conditions shall prevail
Vol.2	3127	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	83	a) Ring Protocol - Ethernet Ring Protection- G.8032 ready b) Static Routing Protocols	Static routing is Layer 3 protocol, since switch will installed at Edge level this protocol not required. Also you have mentioned in the BOQ, Industrial L2 POE switch.	This is minimum requirement, bidder can propose better solutions
Vol.2	3128	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	83	Flow control, layer 2 switching, BOOTP support, VLAN support, IGMP snooping, Syslog support, port mirroring, DiffServ support, MAC address filtering, Broadcast Storm Control, IPv6 support, Multicast Storm Control, firmware upgradable, Unicast Storm Control, firmware upgradable, SNMP support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), LLDP support, DHCP relay, DHCP client, , Energy Efficient Ethernet, Quality of Service (QoS), Media Access Control security (MACsec) on all ports or IP Security (IPsec)/Secure Sockets Layer (SSL).	TFTP, MACsec is OEM specifiic need to remove as comes in Enterprise switch. request you to kindly remove the same.	Tender Conditions shall prevail

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Vol.2	3129	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	IEEE 802.3bt. - its POE 90Watt Standard Per Port, and none of the POE devices like camera or wifi require such hi PoE output hence remove the same. Also Switch total PoE budger mention is 120W, if consider the mention standard than PoE budget will be 360Watt, which is practically not correct. hence kindly remove the IEEE 802.3bt.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at Or IEEE 802.3bt.
Vol.2	3130	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	128 MB RAM	This Parameter varies OEM to OEM hence request to Remove	This is minimum requirement, bidder can propose better solutions
Vol.2	3131	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	1 GB or Better, Flash Memory	This Parameter varies OEM to OEM hence request to Remove	Tender conditions shall prevail
Vol.2	3132	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	Internal power supply	POE Switch require External 48VDC to get PoE out put, clasue has to be change as " Switch should have dual redundand power Input ".	Tender conditions shall prevail
Vol.2	3133	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	0 Degree C or better		Tender conditions shall prevail
Vol.2	3134	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	+ 70 Degree C or better	Suggest to consider the 60 Degree Temprature considering Indian Environment	Tender conditions shall prevail
Vol.2	3135	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	10 - 95% (non-condensing) or better & As per Guwahati weather conditions	Suggest to consider 5 to 95%	Tender conditions shall prevail
Vol.2	3136	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	84	FCC or CE compliance Ingress Protection-IP30	Sugges to consider UL and NEMA-TS as this certification used for the outdoor application. Also add EMI/EMC standard.	Tender conditions shall prevail
Vol.2	3137	ACCERON INFOSOL PVT. LTD. (Formerly ComGuard Infosol Pvt. Ltd.)	5.3.9 SIEM solution	190	There should be no limitation on number of devices to be supported. Any addition in no. of devices should have no cost impact on department.	It should be define the number of devices tentatively. Any logs for a device or application or server will have an impact on the cost as the license depends upon the log source. Request you to kindly clarify the number of device.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	3138	Integrated Systems & Services	Vol 1 3.5. Pre-Qualification Criteria SI No 1	33	<p>Consortium members:</p> <ul style="list-style-type: none"> o Maximum three (3) companies are allowed in a consortium including Lead Bidder. o An Indian firm. o All members should be registered under the Companies Act 1956/ 2013 o In operation in India for a period of at least 3 years as on date of bid submission. 	An Indian firm, as mentioned in the eligibility criteria, can also be a proprietary firm. But a proprietary firm is not registered under Companies Act 1956/ 2013. Besides, as per clause 2.28, bidders should earmark a minimum of 20% of the total contract for procuring goods and services from MSMEs. In this connection it may be mentioned that Govt of India is also putting stress on promotion of the MSMEs. As many MSMEs are proprietary firms, in order to enable them to participate as consortium partner in the bid and execute part of the project, requirement for registration of the firm under Companies Act 1956/2013 should be deleted	Refer to AddendumVI
Vol.1	3139	Integrated Systems & Services	Vol 1 3.5. Pre-Qualification Criteria SI No 2	34	<p>A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years.</p> <ul style="list-style-type: none"> o In case of consortium: <ul style="list-style-type: none"> o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement B. Sole Bidder/all members together (in case of consortium) shall have minimum average annual turnover of INR 200 Crore from the "specific business areas" mentioned below over the last three financial years with lead bidder should have minimum 60% average annual turnover requirement. <ul style="list-style-type: none"> o ICT Infrastructure o IT system integration services 	Govt of India has placed stress on allowing MSMEs to participate in Govt bids. In this bid also, stress has been given on execution of part of the project by MSME. In order to allow MSME to participate in the bid as consortium partner, the required turnover for consortium bidder should be reduced to 5 crores. Besides, as the project involves 5 years of maintenance and operation, the turnover from ITFMS should also be considered while calculating the turnover.	Refer to AddendumVI
Vol.1	3140	Integrated Systems & Services	Vol 1 3.5. Pre-Qualification Criteria SI No 3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	The "Sole Bidder or any consortium member" should be replaced by "Sole Bidder or any consortium member or OEM" as the quality of the solution offered will depend on the product and software of the OEM offered	Refer to AddendumVI
Vol.1	3141	Integrated Systems & Services	Vol 1 3.5. Pre-Qualification Criteria SI No 9	36	The bidder (or any Consortium member) should have experience of setting up and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for Central / State Government Department or Central/State Public Sector Units (PSUs)/ Smart City and other Government establishment in India during last Seven (7) years as on Bid Submission date.	The "Sole Bidder or any consortium member" should be replaced by "Sole Bidder or any consortium member or OEM" as the quality of the solution offered will depend on the product and software of the OEM offered	Tender conditions shall prevail.
Vol.2	3142	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	DLP Based cube on video wall with base stand .The network-based control room solution should consist IP enabled DLP based Video wall cubes. They should be able to show signals over IP without the need of separate decoders. Each of these Video wall cubes should be able to display up to 60 sources per display	Please note DLP is a niche technology which only few O.E.Ms make and its not widely accepted. If we look at the total market share of Video wall then we will find that only 2% of market share is comprised of DLP Videwalls and majority is comprised of LCD based Video walls.We therefore request you to allow LCD based Video walls for this case as LCD technologies are much more compact and reliable than DLP and more widely accepted.By incorporating DLP videowalls this case is getting restricted to only few O.E.Ms barring majority of players to participate.	Tender conditions shall prevail

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3143	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Cube and Controller from same O.E.M	Please note this point is restricting many players in market to participate. Also its not necessary that the Videowall manufacturers should have expertise in Controller which is totally different domain.In the market there are very limited Video wall panel manufacturer who have equal expertise in controllers.So its always recommended to allow the mainstream manufacturers of controllers to participate.For that please dont link Videowall with controllers and keep it separate item.	Tender conditions shall prevail
Vol.2	3144	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Total resolution is 15000 x 6000	Please specify whether this is the resolution of Total Videowall or each Cube/panel.	Tender conditions shall prevail
Vol.2	3145	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Light Source is Laser Technology	Please note this technology is only for DLP Videowall manufacturers and should be omitted. For LCD Videowalls we have LED based light source...So please incorporate LED as light source.	Tender conditions shall prevail
Vol.2	3146	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Brightness is 600 Nits	Please make it 700 Nits as LCD Video walls have Higher Brightness.	Tender conditions shall prevail
Vol.2	3147	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Screen gap 0.2mm less	Please note this holds true for Cubes only where DLP technology is considered.The cubes may provide lesser Bezel but occupies huge space at back and consumes lot of space.Please consider LCD Video walls which can provide 0.88mm bezel to bezel gap and very less space at back and therefore consumes very less space overall.	Tender conditions shall prevail
Vol.2	3148	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Input: 1 x Digital DVI, Input: 1 x HDMI, Input: 1 x Display Port, Input: 1 x analog Dsub-15,	Please note in modern generation Video wall old ports are not recommended.Please consider DP, HDMI and DVI.	To be read as 2 x RJ 45 inputs for receiving data from the encoders
Vol.2	3149	Samsung India Electronics Pvt Ltd	Vol 2 Section 5.2.2.2	126 TO 128	Total Cube depth including screen should be less ess than 500mm	Please note that as DLP cubes are considered 500mm of depth space is required which is quite some space and for optimising space its always recommended to go for LCD Video walls whose depth is very less and always less than 90mm including sceen and frame.That is why LCD walls are always very compact.	Tender conditions shall prevail
Vol.2	3150	Arista Networks	Volume 2	165 & 166	Spine Switch – i) 32 x 40/100GbE QSFP28 ports. Populated with	Requesting to add that "each port must be capable to breakout into 4x10G or 4x25G with IEEE 25G spec support" so that 10G or 25G firewall/service-appliance can be connected at this switch if required.	Tender conditions shall prevail
Vol.2	3151	Arista Networks	Volume 2	166	The solution must support per VLAN MAC address filtering.	Different OEMs provide different methods of traffic filtering. Ro requesting to provide option as "per VLAN/Interface MAC address filtering"	Tender conditions shall prevail
Vol.2	3152	Arista Networks	Volume 2	167	UL 60950-1, EN 60825-1/ EN 55022 Class A/FCC Class A	Please add "EN61000-3-2" also as an option	Tender conditions shall prevail
Vol.2	3153	Arista Networks	Volume 2	167	Should support Unidirectional Link Detection Protocol (UDLD)	UDLD or other similar protocols are proprietary and doesn't interoperate. So requesting to remove this clause or add "bridge assurance as another option"	Clause deleted
Vol.2	3154	Arista Networks	Volume 2	167	Should have IGMPv1/v2/v3, ICMPv6	please remove IGMPv1 as this is very old and has been updated by IGMPv2.	Clause deleted
Vol.2	3155	Arista Networks	Volume 2	167	- VLAN-based ACL (VACL) – Ingress and Egress	Requesting to change to "VLAN/MAC based ACL - ingress and egress"	Tender conditions shall prevail
Vol.2	3156	Arista Networks	Volume 2	167	- IP-based ACL– Ingress and Egress		Tender conditions shall prevail
Vol.2	3157	Arista Networks	Volume 2	168	The OEM should be available in India Market for last 5 years.	What documentation required, Arista is available in India from 2014, but Arista don't pick any orders directly	Tender conditions shall prevail
Vol.2	3158	Arista Networks	Volume 2	168	The OEM should have service Center in Eastern part of India.	The OEM should have service Center in Eastern part of India / should open service center once OEM declared L1	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	3159	Arista Networks	Volume 2	168	The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares.	The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares / should open spare warehouse once OEM declared L1	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	3160	Arista Networks	Volume 2	169	Should support minimum 8MB buffer.	Different switches may have different internal architecture utilizing buffers in different way so buffer may not be true indicator of forwarding performance, so requesting to reduce buffer to 4MB.	6. Should support minimum 4MB buffer
Vol.2	3161	Arista Networks	Volume 2	169	Must support static MAC address assignment for interface.	This is ambiguous as MAC address is not assigned on L2 interfaces neither interface MAC is visible to connected host. So please remove this clause or make it optional as "static MAC address assignment/locking for interface". Locking means that no. other host can connect to a switchport other than the locked host.	Tender conditions shall prevail
Vol.2	3162	Arista Networks	Volume 2	169	Static IP routing	Requesting to also consider adding "upgradable to support OSPF and BGP if required in future support". As a future proof measure.	Static IP routing and Dynamic Routing with support for OSPF and RIP from Day 1

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.2	3163	Arista Networks	Volume 2	170	System should support NSSU/ISSU or equivalent.	This is vendor limiting so requesting to remove this clause or provide MLAG/HA as option.	Tender conditions shall prevail
Vol.2	3164	Arista Networks	Volume 2	170	Must support the following Access Control Lists (ACLs):		Tender conditions shall prevail
Vol.2	3165	Arista Networks	Volume 2	170	- Port-based ACL (PACL) – Ingress and Egress		Tender conditions shall prevail
Vol.2	3166	Arista Networks	Volume 2	170	- VLAN-based ACL (VACL) – Ingress and Egress	Requesting to change to "VLAN/MAC based ACL - ingress and egress"	Tender conditions shall prevail
Vol.2	3167	Arista Networks	Volume 2	170	- IP-based ACL– Ingress and Egress		Tender conditions shall prevail
Vol.2	3168	Arista Networks	Volume 2	171	The OEM should be available in India Market for last 5 years	What documentation required, Arista is available in India from 2014, but Arista don't pick any orders directly	Tender conditions shall prevail
Vol.2	3169	Arista Networks	Volume 2	171	The OEM should have service Center in Eastern part of India	The OEM should have service Center in Eastern part of India / should open service center once OEM declared L1	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	3170	Arista Networks	Volume 2	171	The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares.	The OEM Should have spare warehouse in Eastern Part of India for speedy replacement of spares / should open spare warehouse once OEM declared L1	The OEM or OEM authorized Partner should have service Center in Eastern part of India.
Vol.2	3171	Arista Networks	Volume 2	296	Traffic Engineering over MPLS (MPLS-TE)	Requesting to provide SR as option for MPLS for traffic engineering. So please change to "Traffic Engineering over MPLS/SR (MPLS-TE/SR-TE)	Tender conditions shall prevail
Vol.2	3172	Arista Networks	Volume 2	297	Segment routing for IPv4 Segment routing for IPv6 Topology-Independent Loop-Free Alternate (TI-LFA) for faster convergence Remote-LFA Segment Routing (SR)-Any cast Segment Identifier (SID) SR and LDP integration support	Requesting to remove "Segment routing for IPv6" and "remote-LFA" as this is vendor limiting.	i) Segment routing for IPv4 ii) Segment routing for IPv6 iii) Topology-Independent Loop-Free iv) Alternate (TI-LFA) for faster convergence v) Remote-LFA
Vol.2	3173	Arista Networks	Volume 2	297	Hierarchical QoS	Requesting to remove this clause as this is limiting participation.	Tender conditions shall prevail
Vol.2	3174	Arista Networks	Volume 2	298	Ingress and Egress Policing	Please change to ingress/egress policing	Tender conditions shall prevail
Vol.2	3175	Arista Networks	Volume 2	298	Router series should be MEF 3.0/2.0 compliant	Requesting to remove this clause as this is limiting participation.	Tender conditions shall prevail
Vol.2	3176	Arista Networks	Volume 2	298	NEBS - GR-1089-Core - GR-63-Core	Requesting to remove this clause as this is limiting participation.	Tender conditions shall prevail
Vol.2	3177	Arista Networks	Volume 2	298	The OEM should be available in India Market for last 5 years	What documentation required, Arista is available in India from 2014, but Arista don't pick any orders directly	Tender conditions shall prevail
Vol.1	3178	Hewlett Packard Enterprise	Vol-I: 3.5. Pre-Qualification Criteria: #1	33	# Eligibility Criteria: The Sole Bidder or Lead Bidder (in case of consortium) should be: <input type="checkbox"/> In operation in India for a period of at least 5 years as on date of bid submission.	We request you to kindly amend the clause as "In operation in India for a period of at least 10 years as on date of bid submission."	Refer to AddendumVI
Vol.1	3179	Hewlett Packard Enterprise	Vol-I: 3.5. Pre-Qualification Criteria: #3	35	The Sole Bidder or any consortium member (in case of consortium) should have successfully executed at least one (1) project in last 3 years with minimum 1000 numbers of IP CCTV Cameras for outdoor surveillance with centralised Video Management System and at least one (1) Integrated Traffic Management System project with Traffic Control System / Automatic Number Plate Recognition (ANPR) / Red Light Violation Detection (RLVD) / Speed Violation Detection (SVD) System in any City in India.	We request to remove this or make applicable only for OEM as this is very specific to Traffic and not an SI specialization in Smart City. This will help for larger participation	Refer to AddendumVI
Vol.1	3180	Hewlett Packard Enterprise	Vol-I: 3.5. Pre-Qualification Criteria: #4	35	The Sole Bidder or the Lead Bidder should have positive net worth as per the audited consolidated financial statements for last 3 financial years	Financial positive net worth should be minimum INR 100 Crores as just positive net worth does not provide any credentials of the bidder to execute such a large project. It is also suggested that the bidder must have profitable balance sheet for the last 3 years.	Tender conditions shall prevail
Vol.1	3181	Hewlett Packard Enterprise	Vol-I: 3.5. Pre-Qualification Criteria: #5	35	Sole Bidder/ Lead Bidder should establish project office within 30 days of issuance of LOI in Guwahati if not established earlier	Request 60 days for setting up of project office	Sole Bidder/ Lead Bidder should establish project office within 30 days of signing of Contract Agreement in Guwahati if not established earlier.

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Vol.1	3182	Hewlett Packard Enterprise	Vol-I: 3.5. Pre-Qualification Criteria: #6	35	The Sole Bidder or the Lead bidder of consortium, in case of a Consortium, should possess ISO 9001 certification	We request you to kindly modify the clause as... "The Sole Bidder or Lead Bidder shall have following Certifications valid at the time of submission of bid: - ISO 9001:2015 or equivalent. - ISO 20000:2011 for IT Service Management or equivalent certification - ISO 27001:2013 certification. 2. The Sole/ Lead Bidder/ any of the consortium member should have valid CMMI level 3 or higher Certificate at the time of submission of bid."	Tender conditions shall prevail
Vol.1	3183	Hewlett Packard Enterprise	Vol-I: 3.5. Pre-Qualification Criteria: #7	35	The sole bidder OR the Lead bidder and each of the member of the Consortium should not be blacklisted by Union Territory/ Central / State Government Department or Central/State Public Sector Units (PSUs) or Smart City in India as on the bid submission date	We request you to kindly modify the clause as... "The sole bidder OR the Lead bidder or their parent / sister / brother organizations and each of the member of the Consortium should not be blacklisted by Union Territory/ Central / State Government Department or Central/State Public Sector Units (PSUs) or Smart City in India as on the bid submission date."	Tender conditions shall prevail
Vol.1	3184	Hewlett Packard Enterprise	Vol-I: 3.6.1 Technical Bid Criteria & Evaluation: S. No.-B1	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project...	We request you to kindly modify the clause as... "The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on City surveillance / Smart City with video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project..."	Refer to AddendumVI
Vol.1	3185	Hewlett Packard Enterprise	Vol-I: 3.6.1 Technical Bid Criteria & Evaluation: S. No.-B2	40	The Sole Bidder or any consortium member (in case of consortium) should have been awarded and successfully designed, executed & commissioned project(s) on Integrated Traffic Management System of minimum value of INR 7 Crores per project with the following components during last seven years (as on Bid Submission date)...	We request to make this clause as EM criteria for Traffic management and control systems	Refer to Addendum 7 (Sl. No. 21)
Vol.1	3186	Hewlett Packard Enterprise	Vol-I: 3.6.1 Technical Bid Criteria & Evaluation: S. No.-B4.1	41	The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)...	We request you to kindly modify the clause as... "The Sole Bidder or any consortium member (in case of consortium) have been awarded and successfully designed, executed & commissioned and Operation & Maintenance of Integrated command & control room/ emergency response centre /Security and Surveillance control room/ Surveillance control room/ Data Center built for any State/ Central Government Department or Central/ State PSUs/ Smart City in India of minimum value of INR 5 Crores per projects during last Seven (7) years (as on Bid Submission date)..."	Refer to AddendumVI

Vol. Nos	S.No.	Name of the Bidder	RFP Volume Section	RFP Page No	Content in the RFP	Clarification Sought	GSCL - Responses (Updated)
Vol.1	3187	Hewlett Packard Enterprise	Vol-I: 3.6.1 Technical Bid Criteria & Evaluation: S. No.-B4.2	42	No. of projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the ICCS Solutions proposed by the Bidder is fully operational and integrated with multiple applications like Surveillance, ITMS etc. in last 3 years as on date of submission of bid. Marking will be done on Pro-rata basis.	We request to change this criteria as detailed below: The Sole Bidder or (any member in case of consortium/JV) shall have successfully executed at least 1 Smart City comprising of Integration with Command and Control citizen services of multiple cities from any 3 categories mentioned below in last 5 years. The cumulative value of project should not be less than 15 Cr. 1. Solid waste management system 2. Public bike sharing applicatrion 3. Parking Management System 4. Fire brigade application 5. State level citizen applications 6. Mobile App/Desktop Portal for Citizen Services 7. Public transport system 8. eMunicipality/ eGovernance services 9. IT/IT Integration Services Number of projects implemented. Marks will be allotted as follows: 1 1 Cities = 02 marks 2 Cities = 03 Marks 3 Cities = 04 Marks ≥4 Cities = 05 Marks	Refer to AddendumVI
Vol.1	3188	Mercantile Agents	Volume I Section 3.5 - Pre-Qualification Criteria Point 2	34	A. The Sole Bidder shall have an average annual turnover of 250 Crore over the last three (3) financial years. <u>In case of consortium:</u> o Lead Bidder should have minimum 60% of the Average Annual Turnover requirement o Each consortium member should have minimum 30% of the Average Annual Turnover requirement o All members together should meet 250 Crore Average Annual Turnover requirement	Request for alteration in TURNOVER requirement of CONSORTIUM Member: Because of the LOCATIONAL disadvantage it is difficult for us to meet the TURNOVER requirement of the CONSORTIUM Member in PAGE 34 clause 2 of Point 3.5 (PQC). Because of this clause, small & medium enterprise (MSME) vendors like us despite having competency cannot align with larger SYSTEM INTEGRATORS which restricts our growth. We request you to kindly remove all such requirements like turnover, Limited Company etc for the CONSORTIUM partner. This will also ensure prudent and timely service through involvement of competent LOCAL Vendors.	Tender conditions shall prevail
Vol.2	3189	Tejas Networks Ltd.	Vol2 RFP for SI 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	Vol 2 : Page 84 of 400	13. Compliant Standards: IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at, IEEE 802.3bt.	We understand the switch required is PoE+ with power budget of up to 120W. In line to same, we request to consider IEEE 802.3at as the PoE standard. We request you to amend the clause as "IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at". Please confirm.	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
Vol.2	3190	Tejas Networks Ltd.	Vol2 RFP for SI 5.1.3.6 PoE+ Switches (Industrial Rugged) – 4 Port	Vol 2 : Page 84 of 400	15 Flash Memory 1 GB or Better	We would like to bring to your notice that different OEMs have different architecture and hardware designs which are optimized for high performance. Moreover it is an OEM specific design parameter. We request you to remove the clause from the requirement. Kindly confirm.	Tender conditions shall prevail