

GUWAHATI SMART CITY LTD.

(Formerly Guwahati Smart City Development Agency Ltd.)

(CIN U45309AS2016SGC017403)

04th Floor, Aditya Tower, Opp. Down Town Hospital, G.S. Road, Guwahati-
781006

E-mail: mdsmartguwahati@gmail.com

Website: www.gscl.assam.gov.in

SPV/GSCL/DEV/55/2017/Pt-1/330

Date: 12.08.2020

ADDENDUM No.5

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 in reference to the Addendum -04 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

Annexure I

Addendum for modifications in Pre-Qualification Criteria , Technical Evaluation in vol -I

SI No	Vol No	Page No	Clause No	Para No/sr no	Instead of	Now read as
1	1	7	1.3	12	INR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) online deposit through e Procurement portal	NR 2,15,00,000/- (INR. Two Crore, Fifteen Lakhs only) online deposit through e Procurement portal or by bank guarantee from a nationalised bank. In case, lead bidder is a Govt. PSU, corporate guarantee may be submitted
2	1	16	2.8	16	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. No exemption for submitting the EMD will be given to any agency. Bid security in any other form will not be entertained. 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. For Successful bidders: The bid security, for the amount mentioned above, of successful	. Earnest Money Deposit (EMD) The bid document must be accompanied by the Earnest Money Deposit of Rs. 2,15,00,000/- (Rupees Two Crore, Fifteen 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. MSMEs registered under NSIC, for the products and services offered under this RFP, are exempted from submission of EMD. The Government PSUs may submit the EMD in the form of corporate Guarantee. Bid security in any other form will not be entertained. 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

				<p>bidder would be returned without interest upon submission of Performance Bank Guarantee by the successful bidder. In case bid is submitted without the bid security then Authority reserves the right to reject the bid without providing opportunity for any further correspondence to the bidder concerned. The EMD may be forfeited in any of the following circumstances:</p> <p>a) If a bidder withdraws its bid during the period of bid validity.</p> <p>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.</p> <p>Guwahati Smart City Limited RFP System Integrator – Vol-01 Page 16 of 104</p> <p>Note: For details regarding online deposit of Tender Processing Fee and EMD, bidder may refer the document “Instruction for Online EMD & Tender Processing Fee Payment” uploaded along with this RFP document.</p>	<p>successful bidder. For Successful bidders: The bid security, for the amount mentioned above, of successful bidder would be returned without interest upon submission of Performance Bank Guarantee by the successful bidder. In case bid is submitted without the bid security then Authority reserves the right to reject the bid without providing opportunity for any further correspondence to the bidder concerned. The EMD may be forfeited in any of the following circumstances:</p> <p>a)If a bidder withdraws its bid during the period of bid validity.</p> <p>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.</p> <p>Guwahati Smart City Limited RFP System Integrator – Vol-01 Page 16 of 104</p> <p>Note: For details regarding online deposit of Tender Processing Fee and EMD, bidder may refer the document “Instruction for Online EMD & Tender Processing Fee Payment” uploaded along with this RFP document.</p>
--	--	--	--	---	--

3	1	28	3.1	h	<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>. The OEM for VMS proposed by the Bidder must be operational in minimum 2 Surveillance projects in India with at least 1500 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>
4	1	27	3.1	i	<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>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>
5	1	33	3.5	1 (Eligibility Criteria)	<p>The Sole Bidder or Lead Bidder (in case of consortium) should be:</p> <ul style="list-style-type: none"> • An Indian firm. • Registered under the Companies Act 1956/ 2013 • In operation in India for a period of at 	<p>The Sole Bidder or Lead Bidder (in case of consortium) should be:</p> <ul style="list-style-type: none"> • 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

					<p>least 5 years as on date of bid submission.</p> <p>Consortium members:</p> <ul style="list-style-type: none"> • 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. 	<p>submission.</p> <p>Consortium members:</p> <ul style="list-style-type: none"> • 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 if the member is not a proprietary firm • In operation in India for a period of at least 3 years as on date of bid submission.
6	1	33	3.5	<p>1</p> <p>Documentary Evidence</p>	<p>For Sole Bidder/ Lead Bidder:</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act 1956/2013 • Memorandum and Articles of Association • GST Registration Certificate • PAN Card • Copy of purchase orders showing at least 5 years of operations or Certified true copy of relevant extracts of balance sheet and PL 	<p>For Sole Bidder/ Lead Bidder:</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act 1956/2013 • Memorandum and Articles of Association • GST Registration Certificate • PAN Card • Copy of purchase orders showing at least 5 years of operations or Certified true copy of relevant extracts of balance sheet and PL

					<p>statements for last 5 years</p> <p>For Consortium members other than lead bidder</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act, 1956/2013 • GST Registration Certificate • PAN Card • Consortium agreement clearly stating the roles and responsibilities of each member • Copy of purchase orders showing at least 3 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 3 years • 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>statements for last 5 years</p> <p>For Consortium members other than lead bidder</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act, 1956/2013 if the member is not a proprietary firm • GST Registration Certificate • PAN Card • Consortium agreement clearly stating the roles and responsibilities of each member • Copy of purchase orders showing at least 3 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 3 years • 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.
--	--	--	--	--	---	---

7	1	34	3.5	2 (Eligibility Criteria)	<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"> 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>A. The Sole Bidder shall have an average annual turnover of 200 Crore over the last three (3) financial years.</p> <p>In case of consortium:</p> <ul style="list-style-type: none"> • Lead Bidder should have minimum 60% of the Average Annual Turnover requirement • All members together should meet 200 Crore Average Annual Turnover requirement <p>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. .</p> <ul style="list-style-type: none"> • ICT Infrastructure • IT system integration services • IT Facility Management Services • IT maintenance Services
---	---	----	-----	------------------------------------	--	--

8	1	35	3.5	3 (Eligibility Criteria)	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 CCTV Cameras for CCTV surveillance project with centralised Video Management System and one integrated CCTV Surveillance Project in last 3 years with integrated with 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.																		
9	1	39	3.6.1	A1 (Evaluation Criteria Details)	Average annual turnover of Sole bidder or Consortium over the last three Financial years Marks shall be allotted as given below <table border="1" data-bbox="936 938 1339 1257"> <thead> <tr> <th>Cost of the Project (INR)</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>More than 500 crore</td> <td>6</td> </tr> <tr> <td>>400 Cr. To <=500 Cr.</td> <td>5</td> </tr> <tr> <td>>300 Cr. To <=400 Cr.</td> <td>4</td> </tr> <tr> <td>>250 Cr. To <=300 Cr.</td> <td>3</td> </tr> </tbody> </table>	Cost of the Project (INR)	Marks	More than 500 crore	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 <table border="1" data-bbox="1496 938 2011 1129"> <thead> <tr> <th>Annual Turnover</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>More than 400 crore</td> <td>4</td> </tr> <tr> <td>>300 Cr. To <=400 Cr.</td> <td>3</td> </tr> <tr> <td>>200 Cr. To <=300 Cr.</td> <td>2</td> </tr> </tbody> </table>	Annual Turnover	Marks	More than 400 crore	4	>300 Cr. To <=400 Cr.	3	>200 Cr. To <=300 Cr.	2
Cost of the Project (INR)	Marks																							
More than 500 crore	6																							
>400 Cr. To <=500 Cr.	5																							
>300 Cr. To <=400 Cr.	4																							
>250 Cr. To <=300 Cr.	3																							
Annual Turnover	Marks																							
More than 400 crore	4																							
>300 Cr. To <=400 Cr.	3																							
>200 Cr. To <=300 Cr.	2																							
10	1	39	3.6.1	A Max Marks Allotted	6	4																		

11	1	39	3.6.1	A2 (Evaluation Criteria Details)	<p>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.</p> <p>Marks shall be allotted as given below:</p> <table border="1"> <thead> <tr> <th>No of FTE</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>500 FTE</td> <td>4</td> </tr> <tr> <td>>400 FTE and <=500 FTE</td> <td>3</td> </tr> <tr> <td>>300 FTE and <=400 FTE</td> <td>2</td> </tr> <tr> <td><=300 FTE</td> <td>1</td> </tr> </tbody> </table>	No of FTE	Marks	>500 FTE	4	>400 FTE and <=500 FTE	3	>300 FTE and <=400 FTE	2	<=300 FTE	1	<p>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.</p> <p>Marks shall be allotted as given below:</p> <table border="1"> <thead> <tr> <th>No of FTE</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>500 FTE</td> <td>6</td> </tr> <tr> <td>>400 FTE and <=500 FTE</td> <td>4</td> </tr> <tr> <td>>300 FTE and <=400 FTE</td> <td>2</td> </tr> <tr> <td><=300 FTE</td> <td>1</td> </tr> </tbody> </table>	No of FTE	Marks	>500 FTE	6	>400 FTE and <=500 FTE	4	>300 FTE and <=400 FTE	2	<=300 FTE	1
No of FTE	Marks																									
>500 FTE	4																									
>400 FTE and <=500 FTE	3																									
>300 FTE and <=400 FTE	2																									
<=300 FTE	1																									
No of FTE	Marks																									
>500 FTE	6																									
>400 FTE and <=500 FTE	4																									
>300 FTE and <=400 FTE	2																									
<=300 FTE	1																									
12	1	39	3.6.1	A2 Max Marks Allotted	4	6																				
13	1	40	3.6.1	B1 (Evaluation Criteria Details)	<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:</p>	<p>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/video analytics system of minimum value of INR 15 Crores during last seven years (as on Bid Submission date) per project.</p>																				

							Marks shall be allotted as below:	
					No. of Projects	Marks	No. of Projects	Marks
					>= 3 projects	15	>= 3 projects	5
					2 projects	12	2 projects	4
1 project	10	1 project	3					
14	1	40	3.6.1	B1	15		5	
				Max Marks Allotted				
15	1	40	3.6.1	B2 (Evaluation Criteria Details)	<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)</p> <p>Components:</p> <ul style="list-style-type: none"> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND RLVD System / ANPR System Marks shall be allotted as below: 		<p>The Integrated Traffic Management System solution offered by the bidder should have been implemented successfully in any city of India and the project value should be at least INR 7 crores. during last seven years (as on Bid Submission date) with the following components</p> <p>Components:</p> <ul style="list-style-type: none"> Controlling Traffic Signals with centralized software system/ Adaptive Traffic Control System AND RLVD System / ANPR System Marks shall be allotted as below: 	
					No. of Projects	Marks	No. of Projects	Marks
					>= 3 projects	10	>= 3 projects	10
					2 projects	8	2 projects	8
					1 project	6	1 project	6

16	1	41	3.6.1	<p>B4.1 (Evaluation Criteria Details)</p>	<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> <table border="1" data-bbox="938 679 1460 868"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>= 3 projects</td> <td>5</td> </tr> <tr> <td>2 to 3 projects</td> <td>4</td> </tr> <tr> <td>1 project</td> <td>3</td> </tr> </tbody> </table>	Number of Projects	Marks	>= 3 projects	5	2 to 3 projects	4	1 project	3	<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> <table border="1" data-bbox="1500 679 2022 868"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>= 3 projects</td> <td>3</td> </tr> <tr> <td>2 to 3 projects</td> <td>2</td> </tr> <tr> <td>1 project</td> <td>1</td> </tr> </tbody> </table>	Number of Projects	Marks	>= 3 projects	3	2 to 3 projects	2	1 project	1
Number of Projects	Marks																					
>= 3 projects	5																					
2 to 3 projects	4																					
1 project	3																					
Number of Projects	Marks																					
>= 3 projects	3																					
2 to 3 projects	2																					
1 project	1																					
17	1	41	3.6.1	<p>B4.1 Max Marks Allotted</p>	5	3																
18	1	42	3.6.1	<p>B4.2 (Evaluation Criteria Details)</p>	<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>The proposed ICCC platform should be deployed in India and globally with smart city use-cases either on cloud or On-Premise architecture</p> <p>Local Experience with both On premise and Cloud deployed ICCC (Atleast one each type)</p>																

						<table border="1"> <tr> <td>7 or More cities</td> <td>5</td> </tr> <tr> <td>5 cities</td> <td>4</td> </tr> <tr> <td>4 Cities</td> <td>3</td> </tr> <tr> <td>3 cities or less than 3 cities</td> <td>2</td> </tr> </table> <p>Global Experience</p> <table border="1"> <tr> <td>1 City</td> <td>2</td> </tr> </table> <p>The proposed ICCC software for the following categories of the products/ equipment offered will be evaluated as per Navigant Research Leader board latest report, marks would be awarded as per the following criteria:</p> <table border="1"> <tr> <td>OEM prescribed as Leaders</td> <td>5</td> </tr> <tr> <td>OEM prescribed as Contenders</td> <td>2</td> </tr> <tr> <td>OEM prescribed as Challengers</td> <td>1</td> </tr> </table>	7 or More cities	5	5 cities	4	4 Cities	3	3 cities or less than 3 cities	2	1 City	2	OEM prescribed as Leaders	5	OEM prescribed as Contenders	2	OEM prescribed as Challengers	1
7 or More cities	5																					
5 cities	4																					
4 Cities	3																					
3 cities or less than 3 cities	2																					
1 City	2																					
OEM prescribed as Leaders	5																					
OEM prescribed as Contenders	2																					
OEM prescribed as Challengers	1																					
19	1	42	3.6.1	B4.2	5	12																
20	1	42	3.6.1	B5 (Evaluation Criteria	No. of Surveillance projects for any State/ Central Government Department or Central/ State PSUs/ Smart City in India where the VMS proposed by	No. of Surveillance projects for any State/ Central Government Department / State PSUs/ Smart City /Railways in India where the VMS, VA (Video																

				<p>Details) OEM Criteria</p>	<p>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>Analytics) and CCTV cameras supplied together as a bundle surveillance solution with minimum 1500 Cameras in each project in last 5 years as on date of submission of bid to ensure proven architecture of VMS , VA and CCTV cameras of all OEMs (copy of PO/satisfactory report from client highlighting the same project by all OEMs)</p> <table border="1"> <tr> <td>>= 5 projects</td> <td>5</td> </tr> <tr> <td>3 projects</td> <td>3</td> </tr> <tr> <td>2 project</td> <td>1</td> </tr> </table>	>= 5 projects	5	3 projects	3	2 project	1										
>= 5 projects	5																					
3 projects	3																					
2 project	1																					
21	1	42	3.6.1	<p>B6 (Evaluation Criteria Details)</p>	<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> <table border="1"> <thead> <tr> <th>Number of projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=3</td> <td>5</td> </tr> <tr> <td>2 to 3 projects</td> <td>4</td> </tr> <tr> <td>1 project</td> <td>3</td> </tr> </tbody> </table>	Number of projects	Marks	>=3	5	2 to 3 projects	4	1 project	3	<p>The Sole Bidder or any consortium member (in case of consortium) have successfully designed, executed & commissioned and maintained 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 (7) years (as on Bid Submission date)</p> <table border="1"> <thead> <tr> <th>Number of projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=3</td> <td>5</td> </tr> <tr> <td>2 to 3 projects</td> <td>4</td> </tr> <tr> <td>1 project</td> <td>3</td> </tr> </tbody> </table>	Number of projects	Marks	>=3	5	2 to 3 projects	4	1 project	3
Number of projects	Marks																					
>=3	5																					
2 to 3 projects	4																					
1 project	3																					
Number of projects	Marks																					
>=3	5																					
2 to 3 projects	4																					
1 project	3																					
22	1		3.61	<p>B7 (Additional Criteria)</p>	<p>The Sole Bidder or any consortium member (in case of consortium) have successfully designed, executed & commissioned and maintained a</p>																	

						<p>captive outdoor IP radio network of at least 30 nodes in any State/Central Government Department or Central/State / PSUs/Smart city project</p> <table border="1"> <thead> <tr> <th>Number of projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=3</td> <td>5</td> </tr> <tr> <td>2 to 3 projects</td> <td>4</td> </tr> <tr> <td>1 project</td> <td>3</td> </tr> </tbody> </table>	Number of projects	Marks	>=3	5	2 to 3 projects	4	1 project	3
Number of projects	Marks													
>=3	5													
2 to 3 projects	4													
1 project	3													
23	1		3.6.1	B7 Max Marks Allotted	0	5								
24	1	55	6.1	Table 1 SI 1 Eligibility Criteria	<p>The Sole Bidder or Lead Bidder (in case of consortium) should be:</p> <ul style="list-style-type: none"> 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. <p>Consortium members:</p> <ul style="list-style-type: none"> Maximum three (3) companies are allowed in a consortium including Lead Bidder. An Indian firm. 	<p>The Sole Bidder or Lead Bidder (in case of consortium) should be:</p> <ul style="list-style-type: none"> 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. <p>Consortium members:</p> <ul style="list-style-type: none"> Maximum three (3) companies are allowed in a consortium including Lead Bidder. An Indian firm. 								

					<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • All members should be registered under the Companies Act 1956/ 2013 if the member is not a proprietary firm <p>In operation in India for a period of at least 3 years as on date of bid submission.</p>
25	1	55	6.1	<p>Table 1</p> <p>SI 1</p> <p>Documentary Evidence</p>	<p>For Sole Bidder/ Lead Bidder:</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act 1956/2013 • Memorandum and Articles of Association • GST Registration Certificate • PAN Card • Copy of purchase orders showing at least 5 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 5 years <p>For Consortium members other than lead bidder</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act, 1956/2013 	<p>For Sole Bidder/ Lead Bidder:</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act 1956/2013 • Memorandum and Articles of Association • GST Registration Certificate • PAN Card • Copy of purchase orders showing at least 5 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 5 years <p>For Consortium members other than lead bidder</p> <ul style="list-style-type: none"> • Copy of Certificate of Incorporation / Registration under Companies Act, 1956/2013 if the member is not a proprietary firm

					<ul style="list-style-type: none"> • GST Registration Certificate • PAN Card • Consortium agreement clearly stating the roles and responsibilities of each member • Copy of purchase orders showing at least 3 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 3 years • 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. 	<ul style="list-style-type: none"> • GST Registration Certificate • PAN Card • Consortium agreement clearly stating the roles and responsibilities of each member • Copy of purchase orders showing at least 3 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 3 years <p>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>
26	1	57	6.1	<p>Table 1</p> <p>SI 2</p> <p>Eligibility Criteria</p>	<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"> o Lead Bidder should have minimum 60% of 	<p>A. The Sole Bidder shall have an average annual turnover of 200 Crore over the last three (3) financial years.</p> <p>In case of consortium:</p> <ul style="list-style-type: none"> • Lead Bidder should have minimum 60% of the Average Annual Turnover

					<p>the Average Annual Turnover requirement</p> <ul style="list-style-type: none"> 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>requirement</p> <ul style="list-style-type: none"> • All members together should meet 200 Crore Average Annual Turnover requirement <p>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. .</p> <ul style="list-style-type: none"> • ICT Infrastructure • IT system integration services • IT Facility Management Services <p>IT maintenance Services</p>
27	1	58	6.1	<p>Table 1</p> <p>SI 3</p> <p>Eligibility Criteria</p>	<p>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</p>	<p>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 CCTV Cameras for CCTV surveillance project with centralised Video Management System and one integrated CCTV Surveillance Project in last 3 years with</p>

					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.	integrated with 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.
28	I	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.	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
29	I	28	2.29. Eligible Goods and Services, and OEM Criteria	j)	The OEM of each product or technology should have valid quality certifications like ISO 9001.	The OEM of each product or technology should have valid quality certifications like ISO 9001 / CMMI Level 3 or better.

30	I	36 - 37	3.5. PreQualification Criteria	Note – pt. 1	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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>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.</p> <p>a) Submission of 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 is mandatory.</p> <p>b) Project completion certificate/Go-Live certificate/Phase Completion Certificate(Phase Completion certificate shall be considered for substantially completed projects when atleast 80% of the Contract value's worth of work is completed) clearly indicating Commencement date, Completion Date and Value of Work done signed by the competent authority of the client. The details shall be submitted separately as per format given in Section 7.4.</p> <p>c) In case of ongoing projects with operations & maintenance scope, the completion certificate should specify successful execution and inoperation status of a part of the order meeting the requirement. To substantiate this, a certificate from the Competent Authority</p>
----	---	---------	--------------------------------	--------------	---	---

						<p>of the Client/ Chartered Accountant/ Statutory Auditor has to be provided.</p> <p>d) In absence of Completion certificate from Competant authority of Client, Bidder should</p>
--	--	--	--	--	--	--

						submit the Self-certification (the format of the selfcertificate 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. In addition, Bidder shall also submit approved Final Payment Certificates certified by competent authority of client as a documentary evidence to substantiate the claim of meeting the qualifying criteria for the completed projects & approved interim payment certificates certified by competent authority of client to substantiate the claim of meeting the qualifying criteria for the substantial completed projects i.e.,atleast 80% of the Contract value's worth of work is completed.
31	I	37	3.5. PreQualification Criteria	Note – pt. 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	Deleted (Already addressed above under Note, Pt. 1. d)

32	I	36 - 37	3.5. PreQualification Criteria	Note – pt. 1	In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, than the following additional documents are required: · 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. · Shareholding pattern of the bidding entity as per audit reports	In case the experience shown is that of the bidder's parent / 100% subsidiary /sister concern company, than the following additional documents are required: · 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. · Shareholding pattern of the bidding entity as per audit reports
33	I	37	3.5. PreQualification Criteria	Note – pt. 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.	Deleted
34	I	39	3.6.1 Technical Bid Criteria & Evaluation	A2 - Supporting Documents required	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	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

35	I	42	3.6.1 Technical Bid Criteria & Evaluation	B4.2	<p>Criteria Category: Integrated Command and Control Centre Solution (OEM Criteria) Evaluation Criteria Details: 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> <p>Supporting Documents Required: Copy of Completion Certificates from Client mentioning name of CCC Software.</p>	<p>Criteria Category: Integrated Command and Control Centre Solution (OEM Criteria) Evaluation Criteria Details: 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>Copy of Purchase Order and Completion Certificates from Client/ SI mentioning name of ICCC Software. In case substantially completed projects (80% of Project Worth completed), phase completion certificate indicating Project status and Interim Payment certificates issued by Client/ SI shall be submitted.</p>
----	---	----	--	------	--	--

36	I	46	3.6.3 Key Personnel Criteria	1, 2, 3, 4, 5, 6, 7	<p>1 Project Manager</p> <p>a. Education: Full Time MCA/ M.Tech/ B.Tech/ B.E. from a reputed institute</p> <p>b. Total Experience: At least 12 years in IT sector</p> <p>2 Integrated Command and Control Centre (ICCC) Expert</p> <p>a. Education: Full time M. Tech/ B. Tech/ B.E. from a reputed institute</p> <p>b. Experience: Minimum 10 years of IT experience</p> <p>3 Solution Architect</p> <p>b. Total Experience: At least 10 years in IT sector</p> <p>4 Network & Security Infrastructure Expert</p> <p>a. Education: M.Tech/ B.Tech/ B.E from a reputed institute</p> <p>b. Experience: Minimum 10 years of IT experience</p> <p>5 Security & Surveillance Expert</p> <p>b. Total Experience: At least 10 years in IT sector</p> <p>6 Integrated Traffic Management Expert</p> <p>b. Total Experience: At least 10 years in IT sector</p> <p>7 Server & Storage Expert</p> <p>b. Total Experience: At least 10 years in IT sector</p>	<p>1 Project Manager</p> <p>a. Education: Full Time MCA/ M.Tech/ B.Tech/ B.E. from a reputed institute</p> <p>b. Total Experience: At least 12 years in IT/ICT sector</p> <p>2 Integrated Command and Control Centre (ICCC) Expert</p> <p>a. Education: Full time MCA/ M. Tech/ B. Tech/ B.E. from a reputed institute</p> <p>b. Experience: Minimum 10 years of IT/ICT sector</p> <p>3 Solution Architect</p> <p>b. Total Experience: At least 10 years in IT/ICT sector</p> <p>4 Network & Security Infrastructure Expert</p> <p>a. Education: Full time MCA/ M.Tech/ B.Tech/ B.E from a reputed institute</p> <p>b. Experience: Minimum 10 years of IT/ICT experience</p> <p>5 Security & Surveillance Expert</p> <p>b. Total Experience: At least 10 years in IT/ICT sector</p> <p>6 Integrated Traffic Management Expert</p> <p>b. Total Experience: At least 10 years in IT/ICT /Traffic Management sector</p>
----	---	----	------------------------------	---------------------	--	--

						<p>7 Server & Storage Expert b. Total Experience: At least 10 years in IT/ICT sector</p>
--	--	--	--	--	--	--

37	I	49	4.3 Performance Bank Guarantee (PBG)	<p>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 - Annexure 4, payable on demand, for the due performance and fulfillment of the contract by the bidder.</p> <p>This Performance Bank Guarantee shall be for an amount equivalent to 10% of total contract value. PBG shall be invoked by Authority, in the event the Bidder: a) Fails to meet the overall penalty condition as mentioned in RFP Volume II or any changes agreed between the parties, b) Fails to perform the responsibilities and obligations as set out in the RFP to the complete satisfaction of Authority, c) Misrepresents facts/information submitted to Authority</p> <p>The performance bank guarantee shall be valid till satisfactory completion of Operation and Maintenance Period. The performance bank guarantee may be discharged/returned by Authority upon being satisfied that there has been due performance of the obligations of the bidder under the contract. However, no interest shall be payable on the performance bank guarantee.</p> <p>In the event of the Bidder being unable to service the</p>	<p>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 - Annexure 4, payable on demand, for the due performance and fulfillment of the contract by the bidder.</p> <p>SI shall furnish Performance Security to the Authority as follows :</p> <ol style="list-style-type: none"> 1. At the time of signing the Contract - which shall be equal to 10% of the value of accepted price quoted for Schedule A+Schedule B of Price Bid BOQ and the bank guarantee shall be valid till 'GoLive + 90 days'. 2. At the start of O&M phase - 10% of the value of accepted price quoted for Schedule C of Price Bid BOQ and the bank guarantee shall be valid till 60 months from the date of Go-Live. Bidder shall submit 5 numbers of equal amount of BGs which shall be subsequently released on completion of each subsequent years of O&M services. On receipt of these PBG, PBG taken for the CAPEX shall be returned.
----	---	----	--	--	---

				<p>contract for whatever reason(s), Authority shall have the right to invoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of Authority under the contract in the matter, the proceeds of the PBG shall be payable to Authority as compensation for any loss resulting from the bidder's failure to perform/comply its obligations under the contract. Authority shall notify the bidder in writing of the exercise of its right to receive such compensation within 40 days, indicating the contractual obligation(s) for which the bidder is in default. Authority shall also be entitled to make recoveries from the bidder's bills, performance bank guarantee, or from any other amount due to him, an equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement. In case the project is delayed beyond the project schedule as mentioned in RFP Vol 2, the performance bank guarantee shall be accordingly extended by the Bidder till completion of scope of work as mentioned in RFP Volume II. 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.</p> <p>On satisfactory performance and completion of the order in all respects and duly certified to this effect by the Project Coordinator, Contract Completion Certificate shall be issued and the PBG would be returned to the Bidder.</p>	<p>PBG shall be invoked by Authority, in the event the Bidder:</p> <ul style="list-style-type: none"> a) Fails to meet the overall penalty condition as mentioned in RFP Volume II or any changes agreed between the parties, b) Fails to perform the responsibilities and obligations as set out in the RFP to the complete satisfaction of Authority, c) Misrepresents facts/information submitted to Authority <p>The performance bank guarantee may be discharged/returned by Authority upon being satisfied that there has been due performance of the obligations of the bidder under the contract. However, no interest shall be payable on the performance bank guarantee.</p> <p>In the event of the Bidder being unable to service the contract for whatever reason(s), Authority shall have the right to invoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of Authority under the contract in the matter, the proceeds of the PBG shall be payable to Authority as compensation for any loss resulting from the bidder's failure to perform/comply its obligations under the contract.</p> <p>Authority shall notify the bidder in writing of the exercise of its right to receive such</p>
--	--	--	--	---	--

						compensation within 40 days, indicating the contractual obligation(s) for which the bidder is in default. Authority shall also be entitled to make recoveries
--	--	--	--	--	--	---

						<p>from the bidder's bills, performance bank guarantee, or from any other amount due to him, an equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement.</p> <p>In case the project is delayed beyond the project schedule as mentioned in RFP Vol 2, the performance bank guarantee shall be accordingly extended by the Bidder till completion of scope of work as mentioned in RFP Volume II.</p> <p>On satisfactory performance and completion of the order in all respects and duly certified to this effect by the Project Coordinator, Contract Completion Certificate shall be issued and the PBG would be returned to the Bidder.</p>
38	I	51	4.6 Mobilization Advance	Para 1 & Para 8	<p>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.</p> <p>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</p>	<p>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 interest free</p> <p>A bank Guarantee of 110 (%) percent against the Mobilization advance is to be submitted. The mobilization advances shall be adjusted and recovered in the Interim Payment Certificates raised by the Contractor for the work completed as mentioned above. The bank Guarantee</p>

						submitted against mobilization advance has to be valid till completion of the work. In case, the Contractor fails
--	--	--	--	--	--	---

					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.	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. Advance Bank Guarantee (ABG) shall be returned to the Contractor, post recovery of the entire advance amount paid to the Contractor during execution of the project.
39	I	61	6.2. PreQualification Bid Covering Letter	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 hereby acknowledge and unconditionally accept that the Authority can at its absolute discretion apply whatever criteria it deems appropriate limiting to those criteria set out in the RFP and related documents, in short listing of Agency for providing services.

40	I	61	6.2. PreQualification Bid Covering Letter	d)	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.	We agree to abide by our offer for a period of 180 days from the date of submission of bid prescribed by Authority and that we shall remain bound by a communication of acceptance within that time.
41	I	63	6.3. Company profile	C. Financial Turnover (required for Sole bidder / all members of Consortium)	Copy of audited financial statements or declaration from the appointed statutory auditor/ CA to be provided as proof of the financial turnover. 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.	Copy of audited financial statements or declaration from the appointed statutory auditor/ CA to be provided as proof of the financial turnover. 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.

42	I	82	7.10. Manufacturers '/Producers" Authorization Form		"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."	Modified the form, which may be seen below at the end of this table.
43	I	23	2.21. Acceptance/ Rejection of	b)	b) Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and figures and attested.	b) Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and figures and attested.

		Bids		<p>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.</p> <p>If there is any discrepancy in the commercial bid, it will be dealt as per the following:</p> <ol style="list-style-type: none"> i. If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly. ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. iii. If there is a discrepancy between words and figures, the amount in words shall prevail. iv. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of Authority, the bid is liable to be disqualified. 	<p>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.</p> <p>If there is any discrepancy in the commercial bid, it will be dealt as per the following:</p> <ol style="list-style-type: none"> i. If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly. ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. iii. If there is a discrepancy between words and figures, the amount in words shall prevail. iv. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of Authority, the bid is liable to be disqualified.
--	--	------	--	---	--

44	I	18	2.10. Contents of Bid	e)	e. Bidder shall submit technical bid in hard copy which shall be properly bound and all pages shall sequentially numbered.	e. Bidder shall submit both technical and financial in online mode only. 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.
45	I	97	Clause 12. Annexure 8 - Format for Power of Attorney for Lead bidder of Consortium			Modified the form, which may be seen below at the end of this table.
46	I	95	Clause 11- Annexure 7 - Format for Power of Attorney to Authorize Signatory			Modified the form, which may be seen below at the end of this table.
47	I	85	Clause no 7.12.1 Details for Additional Required Items			Modified the form, which may be seen below at the end of this table.

Sl. No. – 1.17

Clause 7.10. Manufacturers'/Producers' Authorization Form of Volume I (Page 82) should be read 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.) Date:

To,

[_____],

Subject: Manufacturer's Authorization Form

Ref: RFP No. <<....>> dated <<>>

Dear Sir,

We _____ (Name of the OEM) who are established and reputable manufacturers of _____ (List of Goods) having factories or product development centers at the locations _____ or as per list attached, do hereby authorize. _____ (Name and address of the Bidder) to bid, negotiate and conclude the contract with you against RFP No. _____ Dated _____ for the above goods manufactured or developed by us.

We hereby extend, our warranty for the hardware goods supplied by the bidder and or maintenance or support services for software products against this invitation for bid by _____ (Name of the Bidder) as per requirements and for the duration of contract as specified in this RFP.

We also confirm that our 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 60 months from the date of Go-Live.

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 or Globally 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 certify that all hardware and software supplied under the contract shall not contain any embedded malicious codes 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.

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.

Thanking you,
Yours faithfully,

(Signature)
For and on behalf of: _____ (Name of the OEM)

Authorized Signatory

Name:

Designation:

Place:

Date:

Sl. No. – 1.22

Clause 12. Annexure 8 - Format for Power of Attorney for Lead bidder of Consortium of Volume I (Page 97 -98) should be read as below:

[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]

Whereas _____ has invited RFP response for _____ (Name of the Project)

Whereas, the Members of the Consortium comprising of M/s. _____, M/s. _____, and M/s. _____ (the respective names and addresses of the registered offices to be given) are interested in bidding for the Project and implementing the same in accordance with the terms and conditions contained in the RFP Documents.

Whereas, it is necessary for the members of the Consortium to designate one of them as the lead member with all necessary power and authority to do, for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium's RFP response for the Project.

NOW THIS POWER OF ATTORNEY WITNESSETH THAT

We, M/s. _____ and M/s _____ hereby designate M/s. _____

being one of the members of the Consortium, as the lead member of the Consortium, to do on behalf of the Consortium, all or any of the acts, deeds or things necessary or incidental to the Consortium's RFP response for the Project, including submission of the RFP response, participating in meetings, responding to queries, submission of information or documents and generally to represent the Consortium in all its dealings with Client or any other Government Agency or any person, in connection with the Project until culmination of the process of bidding till the Project Agreement is entered into with Client and thereafter till the expiry of the Project Agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by our said Attorney pursuant to this power of attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us or Consortium. Dated this the _____ day of _____ 2020

(Signature)

(Name in Block Letter of Executants) *[seal of Company]*

(Signature)

(Name in Block Letter of Executants) [*seal of Company*]

(Signature)

(Name in Block Letter of Executants) [*seal of Company*]

Witness 1 Witness 2

Notes:

The Mode of execution of the power of attorney should be in accordance with the procedure, if any laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

Sl. No. – 1.23

Clause 11- Annexure 7 - Format for Power of Attorney to Authorize Signatory of Volume-I (Page 95) should be read as below:

POWER OF ATTORNEY

[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, M/s. _____ (name of the firm or company with address of the registered office) hereby constitute, appoint and authorize Mr. or Ms. _____ (Name and residential address) who is presently employed with us and holding the position of _____, as our Attorney to do in our name and our behalf all or any of the acts, deeds or things necessary or incidental to our RFP for the Project _____ (name of the Project), including signing and submission of the RFP response, participating in the meetings, responding to queries, submission of information or documents and generally to represent us in all the dealings with Client or any other Government Agency or any person, in connection with the works until culmination of the process of bidding till the Project Agreement is entered into with _____ (Client) and thereafter till the expiry of the Project Agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by our said Attorney pursuant to this power of attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us.

(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

(Signature and Name of authorized signatory)

Seal of firm Company

(Signature and Name of Power of Attorney Holder)

Witness 1:

Witness 2:

Notes:

- a. To be executed by all the members individually.
- b. The Mode of execution of the power of attorney should be in accordance with the procedure, if any laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

Sl no 1.24

Clause no 7.12.1 Details for Additional Required Items of Volume-I (Page 85) should be read as below

S. No of Price Bid BOQ	Description	UoM	Qty
Item 1.4.1	Any other Hardware or Software required to meet the RFP requirements		
	Line Item 1		
	Line Item 2 ...		
Item 2.2.1	Any other Hardware or Software required to meet the RFP requirements		
	Line Item 1		
	Line Item 2 ...		
Item 3.2.1	Any other Hardware or Software required to meet the RFP requirements		
	Line Item 1		
	Line Item 2 ...		
Item 4.2.1	Any other Hardware or Software required to meet the RFP requirements		
	Line Item 1		
	Line Item 2 ...		
Item 5.6.1	Any other Hardware or Software required to meet the RFP requirements		

	Line Item 1		
	Line Item 2 ...		
Item 6.3.1	Any other Hardware or Software required to meet the RFP requirements		
	Line Item 1		
	Line Item 2 ...		

Annexure II

Corrigendum for changes in the technical specifications in RFP vol 2

SI No	Vol No	Page No	Clause No	Para No/sr no	Instead of	Now read as
1	2	11	3.4 Project Objectives		Intelligent Video analytics at edge devices locations and centralized.	Intelligent Video Analytics should be done at the Camera Edge
2	2	42	4.20 Edge Analytics	1	Safety: Detection and classification based on: a) Parking violation b) Loitering detection c) Crowd Detection d) Gesture recognition: Identification through gesture change	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
3	2	68	5.1.2 Functional Requirements - CCTV City Surveillance	5.1.2.5 Other General Requirements / A / 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.	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.
4	2	70	5.1.2 Functional Requirements - CCTV City Surveillance	5.1.2.5 Other General Requirements / G / e	Based on alarms/alerts, customized/standard alert messages should be published on VMB/PA, after authorization by a supervisor/operator.	Based on alarms/alerts, customized/standard alert messages should be published on VMB/PA, after authorization by a supervisor/operator either by VMS/ICCC/or any other application
5	2	71	5.1.3 Technical Specifications - CCTV Surveillance System			OEM of CCTV should be of repute and should figure in list of top 10 as per IHS last 3 year reports.

6	2	71	5.1.3 Technical Specifications - CCTV Surveillance System			To detect tampering of camera configurations at remote field locations during operational period of the system, all cameras offered in this project should have the capability to detect and create a log if any user change the configuration as software sealing broken with date and time stamp in the camera itself
7	2	71	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.1 Dome CCTV Cameras / 4	Shutter Time 1/5 sec. to 1/25,000 sec. or better	Shutter Time 1/1 sec. to 1/10,000 sec. or better
8	2	71	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.1 Dome CCTV Cameras / 10	Image Sensor 1/2.8" Progressive Scan CMOS or better	Image Sensor 1/2.9" Progressive Scan CMOS or better
9	2	72	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.1 Dome CCTV Cameras / 16	Auto adjustment + Remote Control of Image settings: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB	Auto adjustment + Remote Control of Image settings: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
10	2	73	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.1 Dome CCTV Cameras / 23	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.	Built in SD card slot with support min 1 TB 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.
11	2	73	5.1.3 Technical Specifications - CCTV Surveillance System	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. 	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

					<ul style="list-style-type: none"> 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. 	<p>throughout the 10 year period</p> <p>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)</p>
12	2	75	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.2 Fixed Bullet CCTV Cameras / 16	16. Auto adjustment + Remote Control of Image settings: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 0°, 90°, 180°, 270°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB	Auto adjustment + Remote Control of Image settings: Saturation, contrast, brightness, sharpness, white balance, orientation: auto, 90°, 180°, mirroring of images, 4 Privacy masks, noise reduction, SNR >50 dB
13	2	75	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.2 Fixed Bullet CCTV Cameras / 18	Wide Dynamic Range > 120 dB or Better	Wide Dynamic Range : 85 dB or better (as per IEC 62676-Part 5)
14	2	75	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.2 Fixed Bullet CCTV Cameras / 21 / Security / 6	Security: Any of the security certifications of IEC/EN/UL - 60950-1 /60950-22, IEC-62471	Certification from UL, EN , CE , IEC
15	2	76	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.2 Fixed Bullet CCTV Cameras / 22	Analytics: Edge-based analytics Line crossing, Enter / leave field, Idle / removed object, Crowd density estimation.	<p>Edge Analytics for all surveillance Cameras (Fixed and PTZ)</p> <p>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.</p> <p>Following listed use cases should be part of implementation and should be not be limited to:</p> <ol style="list-style-type: none"> Safety: Detection and classification based on: <ol style="list-style-type: none"> Parking violation Loitering detection Crowd Detection

						<p>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.</p>
16	2	76	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.2 Fixed Bullet CCTV Cameras / 24	<p>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.</p>	<p>SD CARD Built in SD card slot with support min 1 TB recording 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.</p>
17	2	77	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.2 Fixed Bullet CCTV Cameras / 29	<p>OEM Criteria:</p> <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. <ul style="list-style-type: none"> • 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. 	<p>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</p> <p>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)</p>
18	2	78	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.3 PTZ CCTV Cameras / 17	Tilt Tilt: Up to 300°/s	Tilt: 3° ~ 90°, up to 100°/s or better

19	2	78	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.3 PTZ CCTV Cameras / 20	Pre-set / Tour 256 pre-set positions, Minimum 8 Tour	Pre-set / Tour : 256 pre-set positions, Minimum 4 Tour
20	2	79	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.3 PTZ CCTV Cameras / 24/ Security / 6	Security: Any of the security certifications of IEC/EN/UL - 60950-1 /60950-22, IEC-62471	Certification from UL, EN , CE , IEC
21	2	79	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.3 PTZ CCTV Cameras / 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.	SD CARD Built in SD card slot with support min 1 TB recording 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.
22	2	80	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.3 PTZ CCTV Cameras / 27	Alarm I/O Minimum 4 Input & 2 Output contact integrated/ external for 3rd part interface	Alarm I/O Minimum 2 Input & 1 Output contact integrated/ external for 3rd part interface
23	2	81	5.1.3 Technical Specifications - CCTV Surveillance System	5.1.3.3 PTZ CCTV Cameras / 33	33. IR Illuminator: Inbuilt 850nm intensity adjustable IR with minimum 180 meters range, with object identification	IR Illuminator: Inbuilt intensity adjustable IR with minimum 180 meters range, with object identification
24	2	80	5.1.3 Technical Specifications - CCTV Surveillance System	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. <ul style="list-style-type: none"> • OEM Shall have RMA Center in India. • Camera should have MTBF of minimum 7 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

					duly certified by NABL Accredited LAB or international reputed LAB.	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)
25	2	90	5.1.4 Video Management System	7	The VMS shall be enabled for integration with any external Video Analytics Systems	The VMS should seamlessly integrate with all the camera edge Video Analytics module and manage alarms as required in the RFP
26	2	92	5.1.4 Video Management System	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).	The camera VA/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.).
27	2	92	5.1.4 Video Management System	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).	The camera VA/VMS shall be capable of tracing of a specific person or object in multi-camera videos on recorded videos as forensics search: Based on object color
28	2	92	5.1.4 Video Management System	30	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.	The camera VS/VMS shall be capable of counting of people and detection of crowd: Detection of people flow and counting of people in selected areas.
29	2	93	5.1.4 Video Management System	36	VMS/ICCC shall support integration with the ANPR application.	The requested functionality is to be provided in full. This may be accomplished either by VMS / ICC / VA or any other application.
30	2	94	5.1.4 Video Management System	5.1.4.2 VMS General / 7.b	System should support to apply below listed filters to search results: i. Object size ii. Object color iii. Direction of object motion	System should support to apply below listed filters to search results: i. Object size and Classification ii. Object color iii. Direction of object motion

					iv. Speed of the moving object v. Defined area entry/appearance and zone exit/disappearance	v. Defined area entry/appearance and zone exit/disappearance
31	2	95	5.1.4 Video Management System	5.1.4.3 VMS GUI Capabilities / 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 minimum 4 monitors with out video wall controller.
32	2	103	5.1.4 Video Management System	5.1.4.11 VMS Integration Requirements / 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.
33	2	103	5.1.4 Video Management System	5.1.4.11 VMS Integration Requirements / 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 /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
34	2	103	5.1.4 Video Management System	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).	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.
35	2	105	5.1.4 Video Management System	5.1.4.14 Video Analytics	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.	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
36	2	106	5.1.4 Video Management System	5.1.4.14 Video Analytics / a) Video Analytics Feature / 6	VA should allow multiple instances of Client Viewer in a single workstation	VA should be able to utilize minimum 4 monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Multiple Instances of

						Client Viewer, Live viewing, Archive Search, Site map display, etc.)
37	2	106	5.1.4 Video Management System	5.1.4.14 Video Analytics / a) Video Analytics Feature / 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 minimum 4 monitors connected to the VMS client workstation to perform various tasks simultaneously (e.g. Multiple Instances of Client Viewer, Live viewing, Archive Search, Site map display, etc.)
38	2	107	5.1.4 Video Management System	5.1.4.14 Video Analytics / a) Video Analytics Feature / 16	VA should enable any combination of analytics rules to run on the same camera simultaneously, without limitations.	VA/VMS should enable min 8 different types of analytic rules to run on each camera simultaneously.
39	2	208	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) / 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	All signal controllers under Adaptive Traffic Control System shall be provided with inputs from non-intrusive vehicle detector sensors for detecting demand in real time and send the Traffic data (Vehicle count ,Classification and Queue length) to ICC for traffic management and control strategy in real-time
40	2	208	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) / 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.	The vehicle detector shall be 4D Radar / thermal Camera which can cover minimum 4 lanes and queue length 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, varying road surface temperature without degrading its performance
41	2	208	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.2 Functional Requirements of Adaptive Traffic	“Composite Signal Control Strategy” application (already proved in Indian environment) or equivalent will be used for optimizing the traffic signal timings.	Deleted

				Signal Control (ATSC) / J		
42	2	208	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) / 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	ATSC should be able to sense the volume of the Traffic automatically at each of the junction through the means of vehicle detection sensor algorithms
43	2	209	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.2 Functional Requirements of Adaptive Traffic Signal Control (ATSC) / 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 third-party traffic controller that is UG405 or NTCIP or any other standard communication protocol compliant.	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.
44	2	210	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.3 ATSC Software Application / 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.	The system shall have a distributed architecture so that signalized junctions can be appropriately grouped into sub-areas or Corridors (min 2 and upto 255 controllers) Initially to be designed for 84 Junctions and scalable to 100 Junctions
45	2	210	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.3 ATSC Software Application / 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.	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 and shall be scalable to include any additional users in the near future
46	2	210	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.3 ATSC Software Application / 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.	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 sub areas
47	2	211	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.3 ATSC Software Application / 9	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	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

					corrected within 5 cycles at a tolerance of +/- 5 seconds maximum.	
48	2	214	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.3 ATSC Software Application / 46	For emergency management, ATSC should be able to accept commands from workstations deployed in select areas of route-preemption or emergency route management	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 also be capable of being requested from any of the operator's workstation at ICCC by authorized operators
49	2	220	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.4 Traffic Signal Controller / 20	Special Day Plans- The controller shall have facility to configure a minimum of 20 days as special days in a calendar year.	Special Day Plans- The controller shall have facility to configure a minimum of 10 days as special days in a calendar year.
50	2	222	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.4 Traffic Signal Controller / Technical Specification of Traffic Controller / 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 micro controller solid state traffic signal lamp switching module with open and short circuit lamp detection with the ability to program any combination of traffic signal stages, phases, and junction groups with conflict monitoring facility.
51	2	222	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.4 Traffic Signal Controller / Technical Specification of Traffic Controller / 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	Standards compliance: EN 50556 or equivalent ISO 9001:1994 for design & servicing. EN 55024:2010 60950 61000-3-3 or equivalent for voltage fluctuations, or equivalent Safety Integrity Level SIL3 with Test Report IEC 60068 for environmental protection EN 12675 for functional safety,
52	2	222	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.4 Traffic Signal Controller / Technical Specification of	Number of signal head outputs: minimum 72 or as required	Number of signal head outputs: minimum 36 or higher as per junction site requirement

				Traffic Controller / 17		
53	2	223	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.4 Traffic Signal Controller / Technical Specification of Traffic Controller / 27	Temperature range: 0 – 70 deg. C	Temperature range: 0 – 60 deg. C
54	2	223	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.5 Traffic Signal Controller / Camera /Thermal Vehicle Detector	Camera /Thermal Vehicle Detector	4 D Radar/Thermal Vehicle Detector
55	2	223	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.5 Traffic Signal Controller / Camera /Thermal Vehicle Detector		<p>The vehicle detector shall be Thermal Camera/4D Radar 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.</p> <p>Vehicle detector shall be able to operate with more than 95 % accuracy in all weather conditions like FOG, Rain and dust storm, varying road surface temperature without without degrading its performance as well as accuracy</p>
56	2	223	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.5 Traffic Signal Controller / Camera /Thermal Vehicle Detector / 4	Vehicle Detector camera should look at approaching traffic and should work in FOG and dirt on sensor should not impact performance	<p>The vehicle detector shall be Thermal Camera/4D Radar 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.</p> <p>Vehicle detector shall be able to operate with more than 95 % accuracy in all</p>

						weather conditions like FOG, Rain and dust storm, varying road surface temperature without without degrading its performance as well as accuracy
57		224	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 1	It shall have less power consumption for all colors, preferably maximum power should not exceed 14 watts for each color	It shall have low power consumption for all colours, maximum power should not exceed 10 watts for each colour.
58		224	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 2	Shall preferably have temperature compensated power supplies for longer LED life	Shall have MTBF >60000 Hrs and MTTR 20-30 Mins
59	2	224	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 4	All units operate at voltage of 12 / 24 volts DC	Aspect operating voltage shall be 230 Vac +/- 10% and frequency 50+/-5Hz or 40 V AC or 12 VDC or 24 V DC
60	2	224	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 9	Red, Green – Pedestrian (300 mm diameter):	Pedestrian-Red Stop man(300 mm diameter) and Pedestrian-Green Walk Man (300 mm diameter)
61	2	224	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 10	Pedestrian - Red and Green	Pedestrian-Red Stop man(300 mm diameter) and Pedestrian-Green Walk Man (300 mm diameter)
62	2	224	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 11	Power supply shall be preferably 230 Vac +/- 10% and frequency 50+/-5Hz	Aspect operating voltage shall be 230 Vac +/- 10% and frequency 50+/-5Hz or 40 V AC or 12 VDC or 24 V DC
63		225	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.6 Traffic Light Aspects / 17	Dominant Wavelength (nm): Red 630, Amber 590, Green490	Red Wavelength 620-625 nm,Amber 591-594nm,Green502-505 nm
64	2	225	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal	Automatic Traffic Counting and Classification System (ATCC) – Thermal /4D Radar

65	2	225	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal / 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.	The ATCC System shall use thermal camera or 4D radar based non-intrusive technology for counting ,classification and Queue length detection of the vehicles in a real-time under live traffic conditions.
66	2	227	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.7 Automatic Traffic Counting and Classification System (ATCC) – Video / Thermal / 22 / i	Queue Length for minimum 50 meters (including night and FOG conditions)	Queue Length for minimum 130 meters (including day and night in all weather conditions)
67	2	228	5.4.1 Adaptive Traffic Signal Control (ATSC) System	5.4.1.8 Pedestrian / Pelican Traffic Signal Controller / 1	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
68	2	230	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.1 Functional Requirement – Traffic Violation Detection System / b	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.	Deleted
69	2	230	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.1 Functional Requirement – Traffic Violation Detection System / c	The ITMS OEM should have supplied at least 2000 licenses (ANPR/RLVD/Speed or cumulative) in at least three projects in India.	The ITMS OEM should have supplied / deployed the systems being proposed for atleast 500 ANPR systems, 500 RLVD systems and 300 SVD systems for projects in India
70	2	230	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.1 Functional Requirement – Traffic Violation Detection System / 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.	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.
71	2	230	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.1 Functional Requirement – Traffic Violation Detection System / e	The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle databases.	The system should support Microsoft SQL, MySQL, PostgreSQL and Oracle or any standard databases.

72	2	230	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.1 Functional Requirement – Traffic Violation Detection System / f	The system should support virtual computing environment and should support virtualization platforms on Windows and Linux operating systems.	The system should support virtual computing environment and should support virtualization platforms on Windows operating systems.
73	2	230	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.1 Functional Requirement – Traffic Violation Detection System / g	The ITMS Software should be NABL accredited lab for accuracy	Deleted
74	2	231	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 / 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.	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
75	2	237	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems /4 / f	Lens : Auto IRIS 5~50mm /8 – 40 mm, F1.4	Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens F1.4
76	2	237	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems /4 / g	Minimum Illumination: Colour: 0.5 lux, B/W: 0.1 lux (at 30 IRE)	Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON
77	2	238	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems /4 / r	Alarm I/O: Minimum 2 Input & 1 Output contact for 3rd part interface	Alarm I/O: Minimum 1 Input & 1 Output contact for 3rd part interface

78	2	238	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems /4 / s	Certification: UL/EN, CE, FCC	Certification: UL, EN, CE, FCC
79	2	239	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.3 Technical Specification - Red Light Violation Detection (RLVD) Systems /6 / b	Advanced Encryption Standard (AES) shall be followed for data encryption on site and ICCC, and its access will be protected by a password.	Advanced Encryption Standard (AES) 256 bits encryption shall be followed for data encryption on site and ICCC, and its access will be protected by a password.
80	2	240	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.4 Functional Requirements of Automatic Number Plate Recognition (ANPR) System	The system should capture standard vehicle's number plates with an accuracy of at least 70% at day time and at least with an accuracy of 60% at night time	The system should capture vehicle's standard number plates (HSRP) with an accuracy of at least 95% at day time and at least with an accuracy of 80% at night time
81	2	244	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 3	Lens & Resolutions: 5-50mm Lens & 2-MP - 1920x 1080p	Lens & Resolution : 5-50mm/9-40mm/ 4-12mm Lens & 2-MP - 1920x 1080p
82	2	244	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 4	shutter time PAL: 1/20~ 1/30,000 sec.	Fixed shutter 1/25 to 1/15000s and Automatic electronic shutter
83	2	244	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 6	Minimum Illumination 0.001Lux @ (F1.2, AGC ON), 0.0014Lux @ (F1.4, AGC ON), 0 Lux at IR ON	Minimum Illumination: mono 0.001Lux @ (F1.2, AGC ON), color 0.0014Lux @ (F1.2, AGC ON), 0 Lux at IR ON

84	2	245	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 10	WDR: Up to 140 dB	WDR >= 120 dB
85	2	245	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 13	S/N Ratio: >60db	S/N Ratio >55db
86	2	245	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 18	Triple Stream Required	Quad Stream Required
87	2	245	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 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	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
88	2	245	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 19	Frame rate: 50 to 60 FPS or Better	As per RFP, Frame rate: 50 to 60 FPS or Better at all resolution 2MP , 720P
89	2	246	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 26	LED type:12 pieces dot matrix array LED or better	Deleted

90	2	246	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.6 ANPR HW Requirements / 28	Flexible angle adjustment : 30°, 45°, 60°, 90°	Flexible angle adjustment : as per OEM requirement (For ITMS only)
91	2	246	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	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	Protocol:IPv4, IPv6, TCP/IP, SNMP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE and 802.1x
92	2	246	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.7 IR Illuminator (In case of Separate IR) / 1	IR control:Adjustable IR intensity	IR control : IR intensity as per OEM requirement (for ITMS only)
93	2	246	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.7 IR Illuminator (In case of Separate IR) / 3	Beam Angles : 10°, 20°, 30°, 60°, 80°, and 95°	Beam Angles : as per OEM requirement (For ITMS only)
94	2	247	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	5.4.2.7 IR Illuminator (In case of Separate IR) / 8	Standards: UL, CE, FCC, EN	Standards: UL/CE/FCC/EN along with Eye Safety Certificate (for ITMS only)
95	2	247	5.4.2 Traffic Violation Detection System (TVDS) with ANPR & RLVD Camera	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	Not applicable for ITMS solutions
96	2	250	5.4.3 Speed Violation Detection System (SVD)	5.4.3.3 Evidence Capturing Requirements / c	The System shall be equipped with a white flash to ensure adequacy of evidential images. The flash shall be capable of at least 4 shots in one second to capture images violations occurring simultaneously in different lanes	The System shall be equipped with at least 1 pulse IR unit to provide the necessary illumination for a visible photographic evidence to capture multiple violating vehicles in minimum 4 lanes road

						simultaneously and the intensity shall be based on the ambient light level detected by the system
97	2	253	5.4.3 Speed Violation Detection System (SVD)	5.4.3.6 Radar Requirements / i	The detection device shall be designed to be health safe. The Tenderer shall provide the certification to this safety standard, in accordance with the appropriate regulatory standards.	SVD system should have valid 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.
98	2	254	5.4.3 Speed Violation Detection System (SVD)	5.4.3.8 Flash Unit Requirements	Flash Unit Requirements	Pulse IR Units Requirements
99	2	254	5.4.3 Speed Violation Detection System (SVD)	5.4.3.8 Flash Unit Requirements / 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	The System shall be equipped with at least 1 pulse IR unit to provide the necessary illumination for a visible photographic evidence to capture multiple violating vehicles in minimum 4 lanes road simultaneously and the intensity shall be based on the ambient light level detected by the system
100	2	254	5.4.3 Speed Violation Detection System (SVD)	5.4.3.8 Flash Unit Requirements / b	The proposed flash unit shall be suitable for day and night operation and synchronized with the supplied Speed Enforcement camera.	The proposed pulse IR unit shall be suitable for day and night operation and synchronized with the supplied Speed Enforcement camera.
101	2	83	5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port	10	10. Protocols- a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) Layer 3 multicast routing from day 1	10. Protocols- a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) multicast support from day 1

102	2	84	5.1.3.6, PoE+ Switches (Industrial Rugged) - 4 Port	22	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.	1. OEM should be committed to India and should have a registered office, for at least the last 5 years
103	2	85	5.1.3.7 PoE+ Switches (Industrial -Rugged) – 8 Port	10	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	a) Ring Protocol - Ethernet Ring Protection- G.8032 or equivalent b) Static Routing Protocols c) multicast routing from day 1
104	2	86	5.1.3.7 PoE+ Switches (Industrial -Rugged) – 8 Port	15	15. Flash Memory- 512 MB or better	This should not be changed and should remain as per RFP (1GB)
105	2	169	5.3.3 Data Center Out of Band Switches	2	Active switching throughput should be minimum 136Gbps	Active switching throughput should be minimum 88Gbps
106	2	165	5.3.2 Data Center Spine & Leaf Switching Solution	11	Support for 40,000 or more MAC addresses	Support for 60,000 or more MAC addresses

107	2	109	5.2.1 Functional Requirement – ICC	6	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.	The video feed from the surveillance cameras shall be received at the command control Center where a laser video wall or 4K capable video wall shall be installed for viewing relevant feed from the surveillance cameras.
108	2	184	5.3.6 Next Gen Firewall	6	Should support 5 Gbps of IPSec VPN throughput and must support minimum 5000 VPN user	Should support 5 Gbps of IPSec VPN throughput and must support minimum 500 VPN user
109	2	299	5.5.3.2 DWDM/OTN Equipments for POP Sites	1	<u>The DWDM/OTN offered equipment shall comply to OTN feature-sets in accordance with ITU-T Standards. The offered equipment shall have 400G capacity.</u>	The DWDM/OTN offered equipment shall have 100G capacity for future support
110	2	198	5.3.11 Storage 5b Specifications	5b	Should support various RAID levels (5, 6/DP or equivalent) or alternate solution to achieve similar functionality.	Should support various RAID levels (6/DP or equivalent erasure coding) or alternate solution to achieve similar functionality.
111	2	198	5.3.11 Storage Specifications	5h	5.(h). Storage should support automated tiering feature	Storage controller/SDS storage node should support automated tiering feature or have a mechanism to have both SSD/Flash tier & NL-SAS tier in the same storage
112	2	198	5.3.11 Storage Specifications	5f	5. (f). Should be able to scale out/scale up without service interruption	Should be multi controller architecture (min. 16 Controllers/Nodes), should be able to scale out/scale up without service interruption.
113	2	198	5.3.12 Hyper Converged 2.2 Infrastructure	2.2(b)	(b) 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 using RF2 (without considering deduplication, compression, erasure coding) capacity of 100 TB using Enterprise hot swappable SSD drives.
114	2	198	5.3.12 Hyper Converged Infrastructure	5.1	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 clause is getting deleted	Should not be deleted , retain the same clause as in the RFP

114	2	198	5.3.12 Hyper Converged Infrastructure	6.1	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. This clause is getting deleted	Retain the same clause as in the RFP
115	2	16	Vol-2 4.3 Assessment, Site Survey and Project Plan	5	5. Location of all field systems and components proposed at the junctions, (KML /KMZ file plotted on GIS platform like google earth etc.)	Location of all field systems and components proposed at the junctions, (KML /KMZ /.SHP file plotted on GIS platform like google earth etc.)
116		37	Vol-2 4.14 Junction Box / Outdoor Cabinet, Poles and Cantilever (Page 36)	4	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.	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.
117	Vol.02	47	4.21.2 Implementation of Network connectivity	III. Network Security	III-C Activity not defined.	c) SI shall be responsible for the following activities: (further activities mentioned in sections below) Network Access Internet Service Management Infrastructure Management Data Transmission Network Assessment

118	Vol.02	88	5.1.3.8 Online UPS for Field Locations	15. General Operating Temperature & Humidity	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (noncondensing) As per Guwahati weather conditions	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+) 55 Degree C or better Humidity: 10 - 90% (noncondensing) or better as per Guwahati weather conditions
119	Vol.02	128	5.2.2.2 Video-Wall Specifications	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 be read as 2 x RJ 45 inputs for receiving data from the encoders
120	Vol.02	128	5.2.2.2 Video-Wall Specifications	24 LED bezels size	24. LED bezels size: Less than 6 mm	Please consider as deleted
121	Vol.02	130	5.2.2.4 Specifications of Display Wall Management Software	10. Framework:	10. Framework: Video wall cube should be use Python- Django framework for monitoring the system	10. Framework: Video wall cube should be use Python- Django/JAVA framework for monitoring the system
122	Vol.02	141	5.2.11.2 IP PABX and Communication System with Contact Center Solution S.	8	4. support Voice XML for ASR, TTS, and DTMF call flows	4. Support Voice XML/SIP for ASR, TTS, and DTMF call flows
123	Vol.02	248	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	20	20./ LED indicators to be mentioned for Load/Backup/Overload/etc.	20. LED/LCD indicators to be mentioned for Load/Backup/Overload/etc.
124	Vol.02	248	5.4.2.8 Online UPS for Field Locations (ITMS Crossing)	15	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+)70 Degree C or better Humidity: 10 - 90% (noncondensing) As per Guwahati weather conditions	15. General Operating Temperature & Humidity/ Temp.: (-)10 Degree C to (+) 55 Degree C or better Humidity: 10 - 90% (noncondensing) or better as per Guwahati weather conditions
125	Vol.02	271	5.5.1 Network Backbone Connectivity	DEVIATION TABLE - Type-B	Deviation Table -Type B- DWC as per IS 14930 "Duraline Make"	The term "Duraline" stands deleted
126	Vol.02	290	5.5.2.1 Under-Ground (UG) – OFC	20. NH/SH Crossing	20. NH/SH Crossing • In case of multiple road crossings, Loop Chamber to be placed at every 500 Meter.	This clause stand deleted

			Specifications			
127	Vol.02	296	5.5.3.1 Core Router/4	4	4. 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..	4. 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
128	Vol.02	297	5.5.3.1 Core Router/27	27	27. 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	27. i) Segment routing for IPv4 ii) Segment routing for IPv6 iii) Topology-Independent LoopFree iv) Alternate (TI-LFA) for faster convergence Remote-LFA
129	Vol.02	298	5.5.3.1 Core Router	64	NEBS - GR-1089-Core GR-63-Core	Clause deleted
130	Vol.02	298	5.5.3.1 Core Router/54	54	54. Shall support operating temperature range of 0°C to +40°C	54. Shall support operating temperature range of 5°C to +40°C
131	Vol.02	298	5.5.3.1 Core Router/65	65	65. FCC Part 15 Class A	65. FCC Part 15 Class A or equivalent
132	Vol.02	312	5.5.7 Point-to-Point (P2P) Connectivity – Long Distance	S. No.41	Certification 1. MEP	Clause deleted

133	Vol.02	306	5.5.5, Wireless RF for redundant Connectivity – Short Distance	7	Radio System should support Channel Bandwidth of 20, 40, 80 MHz	Radio System should support Channel Bandwidth of 20 MHz, 40 MHz
134	Vol.02	359	11.8 Communications and Operations Management	31	The bidder shall setup Cyber Security Continuous Monitoring process to monitor - physical environment, External service provider activity etc. to detect potential cyber security incidents	This clause is deleted
135	Vol.02	359	11.8 Communications and Operations Management	29	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.	Clause is deleted
136	Vol.02	359	11.10 Business Continuity Planning and Disaster Recovery	Point.1	The Bidder shall implement and operate Disaster Recovery site for the Smart city infrastructure and related IT & OT applications and processes should be supported from the disaster recovery site.	Clause is deleted
137	Vol.02	360	11.14 Security Controls for Cloud Services	Second Para	Empanelment of Cloud Service Offerings CSPs (Cloud Service Provider) facilities/services shall be compliant with regulative directives and industry best practices	Deleted
138	Vol.02	360	11.12 Security Operations Center	Entire Clause	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.	This entire clause is deleted

139 - BOQ Details

Volume.02, Clause No. 12.7 Bill of Material (BOM) Summary for ITMS (for Make & Model Submission) –

Integrated Traffic Control System						
S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST/ Tax (%)
1.1	Traffic Violation Detection System at Traffic Junctions					
1.1.1	ANPR Camera with accessories & required analytics SW	Nos	452			
1.1.2	RLVD Camera with accessories & required analytics SW	Nos	226			
1.1.3	Sped Violation Detection System, Including the complete solutions (IP Camera, Thermal Camera or 4D Radar, Local Processing Unit, Pulse IR, Software License Lifetime use fee, Junction Box (with Network, PoE Switch, UPS with Battery designed for appropriate Backup per technical specification and SLA mentioned in volume II of this RFP) , Cables, accessories, and installations	Nos	6			
1.1.4	CL Pole moped Vehicle Activated Radar Speed Signs- Highway Variable Display Board 1 x1 meter, 3 color display (red, green, and amber) with Junction Box, Network Cobnnectivity, UPS with battery (appropriate Backup per technical specification and SLA mentioned in volume II of this RFP), Cables, accessories, and installation	Nos	12			
1.1.5	Gantry 10-meter width & 6-meter Height For Highway SVD System	Nos	6			

1.1.6	Junction Box I Control Unit Cabinet for ANPR & RLVD: including AC Power supply and UPS with battery (appropriate Backup per technical specification and SLA mentioned in volume II of this RFP) , CPU Sub Module, with all cabling, fittings, earthing, lighting arrester, Industrial grade PoE switch etc.	Nos	226			
1.1.7	Junction Box / Control Unit Cabinet for SVD Camera: including AC Power supply and CPU Sub Module, with all cabling, fittings, earthing, lighting arrester etc.	Nos	6			
1.1.8	Industrial Grade Outdoor - L2-Managed switches - 8 Port +4 SFP (Only for ITMS)	Nos	64			
1.1.9	Industrial Grade Outdoor - L2-Managed switches - 08 Port +4 SFP (Only for SVD)	Nos	6			
1.1.11	Gantry System/Cantilever Pole - ANPR & RLVD as per solution requirement post survey	Nos	226			
1.1.13	ANPR Analytics Software License for detecting No Helmet, Triple Ride on 2-wheelers	Nos	452			
1.1.14	RLVD with speed Analytics Software License	Nos	226			
1.1.15	Complete ducting, cabling, power, OFC Ring, Foundation required for poles, chambers and civil works repair and restoration as required	Nos	64			
1.2	Adaptive Traffic Signal Control System (Signalization)					
1.2.1	ATCS Traffic Controller	Nos	64			
1.2.2	Countdown timer	Nos	0			
1.2.3	Vehicle Detection System (Count and Classification of Vehicles)	Nos	226			
1.2.4	Galvanized standard Poles for Pedestrian signals	Nos	452			
1.2.5	Galvanized Cantilevers for Traffic Aspects	Nos	226			
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			
1.2.11	Supply & Laying of Cabling, junction box installation, earthing, conduiting , trenching, digging of road, etc	Nos	64			
1.2.12	ATCS Centralize Software	Lot	1			
1.2.14	Off Line Simulation Solution	Lot	1			
1.2.13	ATCS System Design, Commissioning & Training	LS	1			
1.2.16	Command Centre Integration	Nos	1			
1.3	E-Challan System for ITMS					
1.3.1	E-Challan Hand held devices (terminal) with E- Challan s/w for Handheld along with 3G/4G (or above) enabled SIM Cards	Nos	64			
1.3.2	E-Challan MASTER Software	Nos	1			
1.4	Additional Requirements					
1.4.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing)	LS	1			

City Surveillance System						
S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST / Tax (%)
2.1	CCTV Camera at different location in the city					
2.1.1	Indoor Dome Camera	Nos	23			
2.1.2	Outdoor Bullet IFixed Camera	Nos	1423			
2.1.3	Outdoor PTZ Camera with power supply	Nos	160			
2.1.4	Poles for CCTV Cameras with Accessories	Nos	798			

2.1.5	Junction Box I Control Unit Cabinet for CCTV: including AC Power supply with all cabling, fittings, earthing, lighting arrester, etc.	Nos	798			
2.1.6	Industrial Grade Outdoor - L2-PoE switches - 8 Port + 2 SFP	Nos	799			
2.1.7	UPS with Battery (appropriate Backup per technical specification and SLA mentioned in volume II of this RFP)	Nos	798			
2.1.8	VMS Software with all Camera License	Nos	1			
2.1.1 0	Digging, Piping & Re-filling, including digging for electrical cabling - All camera locations	LS	798			
2.2	Additional Requirements					
2.2.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing)	LS	1			

3.0	OFC - Network					
S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST/ Tax (%)
3.1	Optical Transmission Equipment's for POP Sites					
3.1.1	Core Router with - 10Gbps, 10km Transceivers - 24 nos. - 40Gbps, QSFP Multimode Transceivers/Cables - 4 nos.	Nos	2			
3.1.2	DWDM/OTN Base Equipment (Min 2x100G (Line OTU4) + min 20x10G interfaces with Redundant PSU and Redundant Fabric Crossconnect , accessories and Patch cords)without CFP/ XFP/SFP	Nos	25			
3.1.3	Optical, CFP, 100GBase-ER4, OTU4, 100G to support 40 km	Nos	50			

3.1.4	Optical, SFP+, 10GBASE-LR/LW, STM64, 9.95Gbps to 11.3Gbps to support 10Km with required patch cord	Nos	250			
3.1.5	Server Hardware(Include Server/ Switch/Rack or any other hardware to manage the Network)	Set	1			
3.1.6	NMS Software for DWDM/OTN	Nos	1			
3.1.7	L3 Switch for Aggregation to DWDM/ OTN Transmission - POP Sites	Nos	23			
3.1.8	Optical, SFP, 1000BASE-LX, 1.25Gbps, 1310nm to support 10 km with required patch cord	Nos	552			
3.1.9	Optical, SFP+, 10GBASE-LR/LW, STM64, 9.95Gbps to 11.3Gbps to support 10Km with required patch cord	Nos	46			
3.1.10	Overhead OFC Deployment Cost (Including OFC, Pole, RM, JC Closure & Fixture)	KM	150			
3.1.11	Underground OFC Deployment Cost (Including OFC, HDPE Ducts, Couplers, RM, Chambers JC Closures)	KM	200			
3.1.12	36U Racks for Tx Equipment's	Nos	23			
3.1.13	FDMS/LIU Equipment	Nos	23			
3.1.14	Patch Cord - 3 Meters (OFC)	Nos	92			
3.1.15	UTP Cat 6 Armoured Cable (As per Bidder's Solution)	LS (Box)	5			
3.2	Additional Requirements					

S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST/ Tax (%)
3.2.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing)	LS	1			
4.0	Wireless RF Connectivity					
4.1	RF Connectivity - for ITMS Crossing					

4.1.1	RF connectivity at all ITMS crossing with complete solutions - 50 Mbps- Including Tower, Pole, BTS, CPE, Power Backup -- (64-ITMS Crossing)	Nos	64			
4.2	Additional Requirements					
4.2.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing)	LS	1			
5.0	Integrated Command and Control Centre (ICCC)					
5.1	Video Wall System					
5.1.1	Video Wall Cubes for - Wall size 6.5 x 2.5 Meter - with complete stand and accessories	Nos	1			
5.1.2	Video Wall Controller with Wall Management System	Nos	1			
5.2	ICT Equipment in ICCC					
5.2.1	Multi-Function Laser Printer (City Control Room)	Nos	2			
5.2.2	Operator Workstations with Triple Monitor (City Control Room)	Nos	15			
5.2.3	IP PABX System	Nos	1			
5.2.4	IP Phones	Nos	15			
5.2.5	Office Desktop	Nos	5			
5.2.6	KVM Switches - 4 Port USB/HDMI	Nos	10			
5.2.7	PRI Modem	Nos	1			
5.3	Network , ICCC Platform and Switching Devices					
5.3.1	Switches - Core	Nos	2			
5.3.2	Internet Router (L-3)	Nos	1			
5.3.3	Networking/ IT racks - 42 U	Nos	4			

S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST/ Tax (%)
--------	---------------------	-----	------------	--------------	-----------	--------------

5.3.4	UTM for 50 concurrent users	Nos	2			
5.3.5	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,eChallan), 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.	Nos	1			
5.4	Building Utilities for ICCC					
5.4.1	DG Set - 75 KVA with AMF Panel with Change-over Switch	Nos	1			
5.4.2	UPS with battery backup - 50 KVA	Nos	1			
5.4.3	Electrical and Power Cabling work in ICCC	LS	1			
5.4.4	Electrical Cabling & Necessary illumination devices	LS	1			
5.4.5	LAN and CAT-6 cabling	LS	1			
5.4.6	Fire & Smoke Detection System	Nos	1			
5.4.7	Fixed Dome Cameras	Nos	6			
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	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 Complete Setup x 2 Nos)	Nos	2			
5.5.9	Furniture for Security Desk /Guard Room	Nos	1			

S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST/ Tax (%)
5.5.10	Furniture for Help Desk - 5 Seater	Nos	5			
5.6	Additional Requirements					
5.6.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing)	LS	1			
6.0	Data Centre (Hosted at State Data Centre)					
6.1	Servers, Switches & Application SW					
6.1.1	Data Centre Spine Switch (Core)	Nos	2			
6.1.2	Data Centre Leaf Switch (Aggregate)	Nos	4			
6.1.3	Data Centre Out of Band Switch	Nos	4			
6.1.4	GIS Enterprise Software	Nos	1			
6.2	Storage & Other Components					
6.2.1	Primary Storage (3 PB) - 30 Days	Nos	1			
6.2.2	Secondary Storage (5 PB) / Compressed Form - 90 Days	Nos	1			
6.2.3	Hyper Converged Infrastructure (HCI)	Set (As per design)	12			
6.2.4	Intranet Firewall with IPS	Nos	2			
6.2.5	Next Generation Firewall (NGFW) with Anti APT	Nos	2			
6.2.6	Server Load Balancer with Web application Firewall	Nos	2			
6.2.7	Security Information & Event Management (SIEM) System	Nos	1			
6.2.8	Authentication, Authorization and Accounting – Network Access Control (AAA – NAC)	Nos	1			

6.2.9	Network Management System (NMS)/ Enterprise Management System - EMS	Nos	1			
6.2.10	End Host Antivirus	Nos	1			
6.3	Additional Requirement					
6.3.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	LS	1			

S. No.	Description of Item	UOM	Tender QTY	Product Make	Model Nos	GST/ Tax (%)
7.0	Network Enablement Charges - Shifting					
7.1	Shifting & Fixing of all ICCC Equipment's - Temporary Locations to Permanent Building					
7.1.1	Shifting & Installation all Networking & Video-Wall Equipment's (Electronics & IT)	LS	1			
7.1.2	Shifting & Installation all Electrical & HVAC Equipment's (HVAC, Electricals)	LS	1			
8.0	Operations & Maintenance - OPEX					
8.1	OPEX - Operations & Maintenance Services					
8.1.1	Contact Centre Operators (To be included in OPEX) - Year 1	Nos	11			
8.1.2	Contact Centre Operators (To be included in OPEX) - Year 2	Nos	11			
8.1.3	Contact Centre Operators (To be included in OPEX) - Year 3	Nos	11			
8.1.4	Contact Centre Operators (To be included in OPEX) - Year 4	Nos	11			
8.1.5	Contact Centre Operators (To be included in OPEX) - Year 5	Nos	11			
8.1.6	PRI Lines for Telephones - Year 1	Nos	1			
8.1.7	PRI Lines for Telephones - Year 2	Nos	1			
8.1.8	PRI Lines for Telephones - Year 3	Nos	1			
8.1.9	PRI Lines for Telephones - Year 4	Nos	1			

8.1.10	PRI Lines for Telephones - Year 5	Nos	1			
8.1.11	Internet Lease lines (ILL) - Year 1	Nos	1			
8.1.12	Internet Lease lines (ILL) - Year 2	Nos	1			
8.1.13	Internet Lease lines (ILL) - Year 3	Nos	1			
8.1.14	Internet Lease lines (ILL) - Year 4	Nos	1			
8.1.15	Internet Lease lines (ILL) - Year 5	Nos	1			
8.1.16	O&M of Complete System & Services - Year 1	Nos	1			
8.1.17	O&M of Complete System & Services - Year 2	Nos	1			
8.1.18	O&M of Complete System & Services - Year 3	Nos	1			
8.1.19	O&M of Complete System & Services - Year 4	Nos	1			
8.1.20	O&M of Complete System & Services - Year 5	Nos	1			
8.2	Additional Requirement					
8.2.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	LS	1			

140 - Tentative POP Sites Details

Volume.02, Clause No-12.6, Tentative POP Site Locations - Page No: 393 should be read as below

(This is indicative only –Bidder may select POP Locations and QTY as per NW design)

S. No	POP Site Locations
1	Ganesguri
2	Zoo Road
3	Hatigarh
4	Noonmati
5	Narengi
6	Satgaon
7	Bhangagarh
8	Panbazar
9	Rehabari
10	Kalapahar
11	Sarusajai
12	Baisistha
13	Silpukhuri
14	AMTRON
15	Joyanagar

S. No	POP Site Locations
16	Panjabari
17	Kumarpara
18	Adabari
19	Tetelia
20	Gorchuk
21	Satmile
22	Dharapur
23	Tech City
24	Panikheti
25	Chandrapur
26	Amingaon
27	North Guwahati
28	9th Mile
29	Jorabat
30	Sonapur

141 -Helpdesk & Facility Management Resources Details

Volume.02, Clause No-6.1.9.2, Helpdesk and Facilities Management Services - Page No: 333 should be read as below

S. No.	Type of Resource	Minimum Quantity	Minimum Deployment during Operation and Maintenance phase
1	Project Manager	1	100% (8*5)
2	Integrated Command and Control Centre (ICCC) Expert	1	100% (8*5)
3	Solution Architect	1	Onsite Support to Project team on need basis
4	Network & Security Infrastructure Expert	1	100% (8*5)
5	Security & Surveillance Expert	1	100% (8*5)
6	Integrated Traffic Management Expert	1	100% (8*5)
7	Server & Storage Expert	1	100% (8*5)
8	Command Centre Operators	11	100% (24*7 – 3 resources in each rotational shift & 2 resource in general shift for field maintenance)

Annexure – III

Addendum for modifications in vol -III of RFP

Reference Of Tender Clause					Instead of	Now read as
Sr. No.	Volume No.	Page No.	Clause No.	Para No./ Sr No.		
1	III	24	29 -Limitation of Liability		<p>Limitation of Bidder's Liability towards the Authority:</p> <p>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.</p> <p>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:</p> <p>(i) for any indirect or consequential loss or damage; and</p> <p>(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>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>Limitation of Bidder's Liability towards the Authority:</p> <p>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.</p> <p>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:</p> <p>(i) 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>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>

2	III	21	22-Force Majeure	<p>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>Force Majeure</p> <p>22.1 Force Majeure shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected, and shall include, without limitation, the following:</p> <ul style="list-style-type: none"> a) War, hostilities (whether war be declared or not), invasion, act of foreign enemies, b) Rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts; c) Munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and d) Natural catastrophes such as earthquake, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster e) Epidemics, Quarantine restrictions <p>22.2 If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within Fifteen (15) days after the occurrence of such event.</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>22.3 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 Completion shall be extended by the Owner to compensate for the period of Force Majeure and owner will be at no obligation to make payments to the Contractor due to Force Majeure</p> <p>22.4 If the performance of the Contract is substantially prevented, hindered or delayed for a single period of more than thirty (30) days or an aggregate period of more than seventy five (75) days on account of one or more events of Force Majeure during the currency of the Contract, the parties will attempt to develop a mutually satisfactory solution, failing which either party may terminate the Contract by giving a notice to the other, but without prejudice to either party's right to terminate the Contract.</p>
--	--	--	--	--	--

3	III	18	15-Indemnity	<p>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>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</p>
---	-----	----	--------------	---	---

4	III	22	24-Insurance	<p>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</p>	<p>Insurance</p> <p>24.1. The Works 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. Within one month of signing of Contract Agreement, 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 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 for the coverages, as specified below;</p> <p>The minimum insurance amounts and deductibles shall be:</p> <p>(a) for loss or damage to the Works, Plant and Materials: Full Replacement Cost</p> <p>(b) for loss or damage to Equipment: Full Replacement Cost / Repair Cost</p> <p>(c) for loss or damage to property (except the Works,</p>
---	-----	----	--------------	--	---

					other insurance as may be appropriate	<p>Plant, Materials, and Equipment) in connection with Contract: Full Replacement Cost / Repair Cost</p> <p>(d) for personal injury or death:</p> <p>(i) of the Contractor's employees: Rs. 10,00,000/- per occurrence and no. of occurrences unlimited</p> <p>(ii) of other people: Rs. 10,00,000/- per occurrence and no. of occurrences unlimited</p> <p>(e) Minimum amount for Third party insurance:</p> <p>(i) Rs. 1,000,000/- per occurrence with number of occurrences unlimited. The insurance should be valid during currency of the contract</p>
5	III	17	14-Taxes			<p>Add Sub Clause 14.7 and 14.8</p> <p>14.7 For the purpose of the Contract, it is agreed that the Contract Price is based on the taxes, duties, levies and charges prevailing at the date seven (7) days prior to the last date of bid submission. 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.</p> <p>14.8 Any subsequent changes in Tax structure by</p>

						<p>government will be compensated (Plus or Minus) on availability or submission of actual documentation. Contractor has to intimate Employer regarding changes occurred in Tax structure after bid submission. If the Contractor fails to provide such information and if any financial obligation may arise due to change in Tax structure, same will be recovered from Contractor. The Contractor shall apply fair means of Stock maintenance and shall adopt accounting standards as may be prescribed under Goods and Service Tax-GST. For arriving at the difference in procurement prices, due to change in GST it will be open for Employer to ask for original invoices, LR, weigh bridge slips, payment details and such other documents as may be required for the purpose. If there is reduction in overall tax burden then proportional benefit of that shall be passed on to the Employer</p>
6	III	15	10.34 Change in Law			<p>Add following Clause : Change in Law</p> <p>If during the execution of Contract any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract</p>

7	III	5	3.2 Condition Precedent		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.	Deleted
8	III	5	3.4 Condition Precedent		Furnishing of such other documents as the Authority may specify/ demand	Deleted
9	III	6	5.1 Key Performance Indicators		Unless specified by the Authority to the contrary, SI shall deliver the goods, perform the services and carry out the scope of work in accordance with the terms of this Contract, Scope of Work and the Service Specifications as laid down under Section C (Service Level Agreement) of this section	Unless specified by the Authority to the contrary, SI shall deliver the goods, perform the services and carry out the scope of work in accordance with the terms of this Contract, Scope of Work and the Service Specifications as laid down under Section B (Service Level Agreement) of this section
10	III	15	12 Payments		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.	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 B- 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.
11	III	19	17.1 Term and Extension of the Contract		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	The Contract period shall commence from the date of signing of contract and shall remain valid for 60 Months from the date of Go Live of the system
12	III	3	1.11 Effective Date		"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.	"Effective Date" means the date on which this Contract is signed and executed by the parties hereto.

13	III	16	13. Intellectual Property Rights			<p>Add Sub Clause 13.7</p> <p>Under the present scope of works, the above clauses shall not be applicable, However, during the Contract period, through Change order, if SI is entrusted with scope of development of exclusive software/applications for GSCL, then in that case, the above clauses shall be applicable.</p>
14	III	22	25.1 Transfer of Ownership		<p>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>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 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>
15	III	9	10. Bidder"s Obligations		<p>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.</p>	<p>Except in case of job termination, resignation, death or medical incapacity, 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.</p>
16	III	32	43. Penalties		<p>43.3. Maximum Penalty applicable for any quarter shall not exceed 30% of the „applicable fees“ for the respective quarter.</p> <p>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</p>	<p>43.3. Maximum Penalty applicable for any quarter shall not exceed 10% of the „applicable fees“ for the respective quarter.</p> <p>43.4. Three consecutive quarterly deductions of 10 % 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</p>

17 **Clause 43.6.1 Implementation Phase Related Performance Levels of Volume III (Page 33) should be read as below:**

S. No.	Measurement	Definition	Target	Penalty
1	Team mobilization and commencement of work	<p>SI is expected to mobilize project team for commencement of work. SI shall mobilize entire project team within one month of signing of Contract agreement, failing which Authority reserves right to deduct the amount from Contractors payment as below :</p> <p>For Delay beyond 7 calendar days = 0.2% of the contract value</p> <p>For Delay beyond 8-15 calendar days = 0.5% of the contract value</p>	Within One month from Date of Signing of Contract Agreement	<p>Delay beyond 7 calendar days = 0.2% of the contract value</p> <hr/> <p>Delay beyond 8-15 calendar days = 0.5% of the contract value</p>

18 Clause 43.6.4/ SI .8 City surveillance & ICT Component related performance levels of Volume III (Page 38) should be read as below:

S. No.	Measurement	Definition	Target	Severity Level
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 2% spare or 2 no"s whichever is more 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	Within 4 business hours of logging complaint	0
			>4 business hours to 1 business day of logging complaint	2
			>1 to ≤2 business days of logging complaint	3
			More than 2 business days of logging complaint	4