GUWAHATI SMART CITY LIMITED

GUWAHATI SMART CITY LTD.

(Formerly known as Guwahati Smart City Development Agency LTD)
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No SPV/GSCL/DEV/93/2018/230 Dated-19/08/2020

Corrigendum-1 for Pre Bid Response

Tender Title: "Design, Construction, Commissioning and Handing over along with facility Management and 5 years Operation and maintenance of Integrated Command and Control Centre Building at Panjabari near Vipanan Kendra in Guwahati"

Tender No : **SPV/GSCL/DEV/93/2018/206**

Tender ID: **2020_GSCT_18266_1**

Tender Published Date: **31-07-2020**

This corrigendum is being issued in the reference to the responses of Pre Bid. 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

Pre Bid Response to queries receievd for the Tender " Request for Proposal For Design, Construction, Commissioning and Handing over Along with Facility Management and 5 years Operation and Maintenance of Integrated Command and Control Centre Building At Panjabari near Vipanan Kendra In Guwahati, Assam On DESIGN, BUILD AND OPERATE BASIS							
Tender No. : SPV/GSCL/DEV/93/2018/206							
Sl no	**Vol**	**Boroad category**	**RFP section**	**RFP pg no**	**Content in the RFP**	**Clarification Sought**	**GSCL Response**
1	2	Scope of works & Technical specifications	Clause 7.11 (J)	683	The System shall comply with (UL) 864 (UUKL) Ninth Edition Smoke Control Listing including the UL 864 Ninth Edition Standard for Control Units and Accessories for Fire Alarm System	UL 864 9th addition is applicable for Fire Alarm System equipment, for BMS UL 60730-1 is most suitable.	The System shall comply with (UL) 864 (UUKL) Ninth Edition Smoke Control Listing including the UL 864 Ninth Edition Standard for Control Units and Accessories for Fire Alarm System or BMS shall compliance to UL 60730-1.
2	2	Scope of works & Technical specifications	Clause 7.11. – (a)	682	The Building Management System (BMS) shall use an open architecture and fully support a multi-vendor environment. To accomplish this effectively, the BMS shall support open communication protocol standards and integrate a wide variety of third-party devices and applications. The system shall be designed for use on the Internet, or intranets using off the shelf, industry standard technology compatible with other owner provided networks.	Asks controller with BACnet MSTP which is an older technology, BACnet IP is the latest & futuristic technology. MS/TP is 3 layer topology and requires router in between Controllers & PC (HMI) however in BACnet IP the controllers did not needs router & they communicate directly with HMI.	The Building Management System (BMS) shall use an open architecture and fully support a multi-vendor environment. To accomplish this effectively, the BMS shall support open communication protocol standards and integrate a wide variety of third-party devices and applications. The system shall be designed for use on the Internet, or intranets using off the shelf, industry standard technology compatible with other owner provided networks and BACnet IP is also acceptable however 3-Tier system architeture is mandatory for better distributed control & data-flow. Networking components for BACnet IP under vendor scope.
3	2	Scope of works & Technical specifications	Clause 7.11 (b)	682	The Building Management System shall consist of the following: i) Standalone Network Automation / Supervisory Controller(s) ii) Field Level DDC Controller(s) iii) Input/ Output Module(s) iv) Local Display Device(s) v) Portable Operator's Terminal(s) vi) Distributed User Interface(s) vii) Network processing, data storage and communications equipment viii) Other components required for a complete and working BMS	Supervisory shall be removed if OPT for BACnet IP solution	The Building Management System shall consist of the following: i) Standalone Network Automation / Supervisory Controller(s) / BACnet IP ii) Field Level DDC Controller(s) iii) Input/ Output Module(s) iv) Local Display Device(s) v) Portable Operator's Terminal(s) vi) Distributed User Interface(s) vii) Network processing, data storage and communications equipment viii) Other components required for a complete and working BMS
4	2	Scope of works & Technical specifications	Clause 7.11.5 – (a)	685	The DDC Controller shall be a fully user-programmable, digital controller that communicates via BACnet MS/TP protocol. The DDC Controller shall support BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135, Clause 9 on the controller network	SSPC-135 applies for MSTP DDCs for IP controllers for HVAC and related systems ISO-16484-5 is suitable.	The DDC Controller shall be a fully user-programmable, digital controller that communicates via BACnet MS/TP / BACnet IP protocol. The DDC Controller shall support BACnet Standard MS/TP Bus Protocol ASHRAE SSPC-135 Clause 9 / / ISO-16484-5 on the controller network
5	2	Scope of works & Technical specifications	Clause 7.11.5 – (c)	685	The DDC Controller shall be tested and certified as a BACnet Application SpecificController (B-ASC).	Proposed Controllers are registered under B-BC i.e. BACnet controllers pl. include the same also as BAC & BC are similar.	The DDC Controller shall be tested and certified as a BC/ BACnet / BACnet IP Application SpecificController (B-ASC) /

6	2	Scope of works & Technical specifications	Clause 7.11.5 – (e) - ii	686	ii) Controllers shall be factory programmed with a continuous adaptive tuning algorithm that senses changes in the physical environment and continually adjusts loop tuning parameters appropriately. Controllers that require manual tuning of loops or perform automatic tuning on command only shall not be acceptable. The DDC Controller shall be assembled in a plenum-rated plastic housing with flammability rated to UL94-5VB	need further clarity on the housing with UL94-5VB, as the controller is housed in a vandal proof enclosure. We ISO 16484-5 also covers the overall safety of the controllers so request to remove UL94-5VB from specification.	ii) Controllers shall be factory programmed with a continuous adaptive tuning algorithm that senses changes in the physical environment and continually adjusts loop tuning parameters appropriately. Controllers that require manual tuning of loops or perform automatic tuning on command only shall not be acceptable. The DDC Controller shall be assembled in a plenum-rated plastic housing with flammability rated to UL94-5VB / ISO 16484-5
7	2	Scope of works & Technical specifications	Clause 7.11.5 – (n)	687	The DDC Controller shall have the ability to reside on a Field Controller Bus (FC Bus). i) The FC Bus shall be a Master-Slave/Token-Passing (MS/TP) Bus supporting BACnet Standard protocol SSPC-135, Clause 9. ii) The FC Bus shall support communications between the DDC Controller and the Supervisory Controller. iii) The FC Bus shall also support Input/ Output Module communications with the DDC Controller and with the Supervisory Contoller. iv) The FC Bus shall support a minimum of 100 IOMs and DDC Controllers in any combination. v) The FC Bus shall operate at a maximum distance of 15,000 Ft. between the DDC Controller and the furthest connected device. vi) The DDC Controller shall have the ability to monitor and control a network of sensors and actuators over a Sensor-Actuator Bus (SA Bus). vii) The SA Bus shall be a Master-Slave/Token-Passing (MS/TP) Bus supporting BACnet Standard Protocol SSPC-135, Clause 9. viii) The SA Bus shall support a minimum of 10 devices per trunk. ix) The SA Bus shall operate at a maximum distance of 1,200 Ft. between the DDC Controller and the furthest connected device	shall not be applicable for BACnet IP Systems	The DDC Controller shall have the ability to reside on a Field Controller Bus (FC Bus). i) The FC Bus shall be a Master-Slave/Token-Passing (MS/TP) Bus supporting BACnet Standard protocol SSPC-135, Clause 9. ii) The FC Bus shall support communications between the DDC Controller and the Supervisory Controller. iii) The FC Bus shall also support Input/ Output Module communications with the DDC Controller and with the Supervisory Contoller. iv) The FC Bus shall support a minimum of 100 IOMs and DDC Controllers in any combination. v) The FC Bus shall operate at a maximum distance of 15,000 Ft. between the DDC Controller and the furthest connected device. vi) The DDC Controller shall have the ability to monitor and control a network of sensors and actuators over a Sensor-Actuator Bus (SA Bus). vii) The SA Bus shall be a Master-Slave/Token-Passing (MS/TP) Bus supporting BACnet Standard Protocol SSPC-135, Clause 9. viii) The SA Bus shall support a minimum of 10 devices per trunk. ix) The SA Bus shall operate at a maximum distance of 1,200 Ft. between the
8	2	Scope of works & Technical specifications	Clause 7.17	691	Approved List Of Makes For Building Management System	Pl. include Delta make for Controllers, Integration units, Software, sensors & Field Devices	This clause stands deleted
9	2	Scope of works & Technical specifications	Clause 7.17 – S.no. 4	691	WEB SERVER ENGINES (NETWORK / SUPERVISORY CONTROLLERS)	Shall not be required for BACnet IP controllers	BACnet IP is also acceptable however 3-Tier system architeture is mandatory for better distributed control & data-flow. Networking components for BACnet IP under vendor scope.
10	4	BOQ	Schedule-H-BMS	I. No. 1.72	500VA UPS with Half an hour Battery Backup for Workstation	minimum 1 Kva UPS shall be needed for i7PC	Tender conditions shall prevail.

11	4	BOQ	Schedule-H-BMS	I. No. 1.73	SITC of the unlimited multi user with simultaneous minimum 5 user web based Server Software for Building Management System with dynamic graphics. The software shall have minimum 5 simultaneous users. The Web-Based Server software shall permit use of Standard Web-Browsers. Software should have licensce of 10,000 points (hardwired 2000 points & software 8000 points both) to cater future expansion in airport premises.	Pl. confirm if you need unlimited User Licenses in Software	5 concurrent user license is reqired however software shall support configuartion of unlimited user logins.
12	4	BOQ	Schedule-H-BMS	I. No. 1.73	SITC of the unlimited multi user with simultaneous minimum 5 user web based Server Software for Building Management System with dynamic graphics. The software shall have minimum 5 simultaneous users. The Web-Based Server software shall permit use of Standard Web-Browsers. Software should have licensce of 10,000 points (hardwired 2000 points & software 8000 points both) to cater future expansion in airport premises.	Tender specification sub head 7.11 (d) asks for 50000 soft points but in BOQ lien item 1.73 only 8000 soft points are asked, pl. confirm the exact number for Soft /hard point requirement in BMS software.	For qoute the bid , please refer to BOQ quantity and final soft and hard points can be calculed by the implementing authority.
13	4	BOQ	Schedule-H-BMS	I. No. 1.79	SITC Web Based Router/ Network Area Controller interfacing the DDCs and Integrators for the system with PC. It shall have capacity to store trends & program backup. It should be BTL & UL Listed.	shall not be required for BACnet IP Systems	BACnet IP is also acceptable however 3-Tier system architeture is mandatory for better distributed control & data-flow. Networking components for BACnet IP under vendor scope.
14	4	BOQ	Schedule-H-BMS	I. No. 1.74	System Integration Units For 3rd Party System Software Integration	S. no. 1.74 seems to be main head for S. no. 1.80-1.87 pl. confirm else need clarity on point 1.74.	Please ignore if there is any line items is not required as per your design or solutions
15	4	BOQ	Schedule-H-BMS	I. No. 1.75-1.78	DCC controllers for Ventilation Fans including Smoke Evacuation fan, Fresh Air Fans & etc. DDC controllers for VRF Units DCC controllers for Electrical System DCC controllers for Plumbing System	pl. arrange to share IO summary to workout controllers quantities.	Selected bidder to calculated & design the list of IO summary as per the site condistions and requirements