



FARIDABAD SMART CITY LIMITED
RESPONSES TO PRE-BID QUERIES – 09.04.2018

CONSTRUCTION / UPGRADATION OF ROADS, LAYING OF CIVIC INFRASTRUCTURE, UNDERGROUND CABLING OF HT/LT, LANDSCAPING WORKS OF PHASE – I NETWORK IN ABD FARIDABAD WITH DEFECT LIABILITY PERIOD OF TWO YEARS AND OPERATION & MAINTENANCE OF 5 YEARS

Tender No. 72304

S. No.	Reference /Clause No.	Description as per RFP	BIDDER'S QUERY	FSCL Response
1	20.2.Applicable standard	IEC-60439	As LT Panel is not as conventional type LT panel since PSS application (Compact sub-station) hence separate bus bar chamber, vertical bus bar, cable alley etc. not applicable for LT Panel for PSS application.	For CSS application, IEC 60439 will be only for switchgear. whereas for outdoor feeder pillars, RFP shall be prevail
2	20.4 General Technical requirements	Paint-PANTONE 2727C	Paint shade shall be RAL-7032 as per our standard manufacturing practice	RFP clause remain unchanged
3	20.6.3 Outdoor Enclosure	Termination kits and Boots for RMU shall be supplied	We shall supply Cable boot for cable termination however termination of cable along with necessary sleeve ,Cable lug etc. (normally heat shrinkable process) shall be in contractor scope	Vendor has to coordinate with contractor for proper cable termination technic with necessary sleeves, cable lugs etc.
4	20.6.4 Outdoor Enclosure	Transformer shall be as per IS 1180 Level 2	we have considered IS-1180 -Level -2 however in detail spec of TRF losses mentioned is of IS-1180-Level-3	RFP clause remain unchanged. Refer 20.6.4 Outdoor Enclosure
5	20.6.8 Outdoor Enclosure	Necessary arrangement shall be made for temperature indication in LV compartment along with Hooter	We have not considered any Temperature indicator / hooter	Necessary arrangement should be made for temp. indication.

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6	20.7 Earthing	PSS Earthing-GI-50X6	PSS Earthing-AL-50X6 as per our standard manufacturing practice.	RFP clause remain unchanged
7	20.9 Galvanizing	Galvanizing process	Since Enclosure is made of GI sheet hence for galvanizing process not applicable	RFP clause remain unchanged
8	20.18 GUARANTEE	72 months from the date of commissioning	Warranty shall be 60/66 month from date of commissioning /dispatch whichever is earlier.	RFP clause remain unchanged
9	20.18 GUARANTEE	The outage period i.e. period from the date of failure till unit is repaired / replaced shall not be counted for arriving at the guarantee period. Bidder shall further be responsible for 'free replacement' for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the Purchaser	We will rectify the faulty equipment under warranty however no further Latent defect liability shall be provided	RFP clause remain unchanged
10	21.4 Climate condition	Max Ambient temp: +50 deg C	Our RMU is designed at +40 deg C ; however RMU shall be operational upto +50 deg C with derating 579A	RFP clause remain unchanged
11	21.5 General Technical requirements	Closing time of breaker (max.)-3 cycle	Closing time of breaker (max.)-50-60 ms for breaker contact	RFP clause remain unchanged
12	21.6.1 Configuration:	RMU (1 Way/2 way/3 way/4 way/5 way)	we have considered 3 way RMU for PSS as per PSS Spec	RFP Clause remain unchanged. As Per BOM
13	21.6.3 Outdoor Enclosure	sheet steel fabricated parts shall be pre-treated using 7 tank process and then coated by layer of zinc phosphate. A finish coat with high scratch resistance epoxy powder finish paint shall be applied over the primer. The coat thickness shall be minimum 100 micron +/- 25 micron.	As the site condition is not salty (site is not nearby sea) hence sheet steel treated with 7 tank process & then painted with powder based pure polyester paint having 60-80 micron is sufficient for outdoor application, hence request to accept the same	RFP clause remain unchanged

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14	21.6.6 Outdoor Enclosure	Circuit breaker shall not be closed in case Earth switch is closed	Circuit breaker can be closed in case Earth switch is closed however Earth can be close only when disconnecter Between VCB & earth switch is open ; hence interlock ensure live bus bar shall not earth	RFP clause remain unchanged
15	21.7 Circuit Breakers	In case cables are to be tested with front door open, doors shall have interlocks such that doors can be opened only with earth switch in closed position & a cable test rod shall be provided which can be fixed on the terminations to facilitate testing.	Noted however cable test rod shall be in contractor scope which is required to test the cable at site	RFP clause remain unchanged
16	CT/PT	Appropriate CT/PT provided in RMU for metering .however meter shall not be in scope of supplier	Kindly clarify the scope of metering (on which feeder req, CT rating etc.) as per clause no 6.7 we understand meter provision required in outgoing breaker ; also provide the dimension of meter & its projection (base or flush mounted) so that the accommodation space for the same can be check in our RMU	RFP clause remain unchanged
17	21.12 Earthing	GI (75X12) OR Copper strip	Earthing shall be GI of 50x6 as per our validated Design & std manufacturing practice also the size is suitable for Tender STC requirement	RFP clause remain unchanged
18	21.15 Fault passage indicator	O/C setting shall be 200-1000A	O/C setting shall be 100-800A.Also RMU is also rated upto 630A hence request you to accept the same	RFP clause remain unchanged
19	21.17 Power supply ,battery & charger	Nominal backup of 12 hours	Backup shall be 4 hours including FRTU & 10 close open operation which is sufficient	RFP clause remain unchanged
20	GTP 20).	Temp Rise above ambient-50 deg C	Temp Rise shall be different for different component like terminal bus bar .We are complying Temp Rise as per IEC (Doc attached)	RFP clause remain unchanged

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21	GTP 32).	Earthing of Cables shall be earthed with earth switch with. S/C making capacity as per IEC 129. Moving contacts of earthing switch shall be visible in closed position via transparent Cover.	Noted however Position of earth switch shall be visible through Mimic on RMU front	Status of moving contact of earthing switch in closed position shall be visible through suitable indicator on mimic
22	GTP 38).	Testing of cable- without opening the doors. If doors are opened then earth switch shall be in closed position and cable test rod shall be provided which can be fixed on terminations for testing purpose and it shall not be possible to operate, E/Switch or CB.	Noted however cable test rod shall be in contractor scope which is required to test the cable at site	RFP clause remain unchanged
23	GTP 62).	LBS & earth switch operation counter	OK for LBS only. (Not provided for Earth switch)	Agreed. However for LBS operation counter is required.
24	22.28.3 FRTU Functions	The principal communication for SCADN OMS shall be on optical fiber cable network therefore the FRTU shall have the requisite functionality for the same. But if not specified , the SCADA/DMS system will use public domain such GPRS/CDMA etc., therefore it mandatory to guard the data/equipment from intrusion/damage/breach of security & shall have SSL/VPN based Security and shall support SNMP.	We have considered Ethernet Switch with 2 Fiber Ports to communicate RMU/PSS FRTU with Control Centre over basic RSTP Ring Architecture as no clear architecture/mode of communication is defined in specification.	RFP clause remain unchanged
25	22.28.3 FRTU Functions	It shall be possible to issue control command from the front panel of the FRTU with security button.	Local/Remote button of FRTU mounted on Panel Door shall act as security button to issue command from the Front Panel of FRTU Door.	RFP clause remain unchanged
26	2.7.1 Heavy Duty Control Output Relays	Each control output relays shall consist of at least 2 NO contacts. The output contacts shall be rated for at least 5 Amps Continuous at	We propose to supply 16 Channel Really Board with output contact of Relay be rated for at least 5A continuous at 24VDC instead of 220VDC.	Rated Voltage level of 'Output contact of relay' shall be same as battery voltage level mentioned in RFP.

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		220Vdc and shall provide arc suppression to permit interruptions of an inductive load. Relay coils shall be shunted with diodes to suppress inductive transients associated with energizing and de-energizing of the relay coils. The relays shall conform to the IEC255-1-00 and IEC 255-5 requirements.	As FRTU shall be factory fitted and integrated with RMU by OEM, our RMU DC Aux. supply and motorization supply is on 24VDC.Hence, it shall be sufficient if output contacts of Relay board are rated for 5A continuous at 24VDC	
27	2.8 Contact Multiplying Relays (CMRs)	Contact Multiplying Relay	We are not considering any CMR is our scope as all the signals from RMU shall have potential free contact to tap signal wiring for FRTU, as FRTU shall be factory fitted and integrated with RMU by OEM	Approved, however clause 21.6.2. RMU Design Features shall be fulfil.
28	2.11 Input AC/DC Power Supply	FRTU Power supply should have capabilities of self-monitoring, like Loss of AC supply, 24Vdcmotorisation fault, 12 V DC transmission equipment power fault. FRTU Power supply should have capabilities of Battery monitoring	External Battery Charger with its Monitoring unit shall provide following monitoring capabilities a) Loss of AC Supply b) 24VDC O/P Supply 12V DC shall not be available in complete designed solution	RFP clause remain unchanged. However, voltage level of 'transmission equipment power fault' shall be same as battery voltage level mentioned in RFP.
29	2.14FRTU Panels	FRTU Panels	We propose to install FRTU and accessories in Metering section of RMU itself and not any separate/external panel to RMU. This shall be beneficial as FRTU shall factory fitted and completely integrated with RMU from OEM Factory itself. Also, FRTU mounted inside RMU is more safe at site after installation then separate FRTU panel external to RMU.	RFP clause remain unchanged
30	2.15Wiring/Cabling Requirements	Wiring/Cabling requirements	As FRTU shall be placed in RMU Metering Unit/PSS itself, non-shielded cables shall be provided for IO interfacing purpose and size	RFP clause remain unchanged

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			of Status Input as well as Control Output cables shall be 1.5 sqmm only.	
31	2.17Switch Connection	Orders and information shall be transmitted from the switchgear interface to the switch control unit via a single cable connected to the enclosure by a rack-out connector mounted on the lower part of the enclosure. Each connector has a fail-safe device to prevent reversal between the various electrical controls. The socket can be "plugged" for simulation and test purposes	We propose to provide normal TB for wiring integration between FRTU & RMU as FRTU shall be factory fitted and integrated with RMU by OEM. And same is mentioned in specification clause 2.16 TERMINAL BLOCK where TBs for Analog Inputs, Status Inputs and Control Inputs are mentioned. Hence, specification clause 2.16 and 2.17 are making wiring integration between FRTU & RMU duplication, which needs to be clarified	Accepted as per clause 2.16 of RFP as FRTU and RMU is an integral part of CSS
32	4.2 Master station-cum-RTU/FRTU simulator & protocol analyser software tool	The protocol analyser shall be used to monitor all communication traffic on a channel (between Master station & RTU/FRTU and between RTU/FRTU & MFT without interfering channels operation.	No External Protocol Analyser software has been considered along with supply of Smart RMU/PSS i.e. RMU/PSS integrated with FRTU	RFP clause remain unchanged
33	4.3 Laptop PC for above software tools along with interfacing hardware	A laptop PC shall be used for the above mentioned software tools. The laptop PC shall be provided with all hardware accessories including cables, connectors etc. required for interfacing with Master station, RTU/FRTU and MFT. A suitable Hub shall be provided to use the tool in monitor mode. A carrying case and a suitable power adaptor (input 230VAC, 50Hz) for laptop PC shall also be supplied.	No laptop PC has been considered along with supply of Smart RMU/PSS i.e. RMU/PSS integrated with FRTU.	RFP clause remain unchanged
34	General-FRTU		Any kind of Fiber Cable supply, laying, splicing/termination is not in our scope	Vendor has to coordinate with contractor for proper termination process of fibre cable with FRTU

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35	General-FRTU		We have considered Ethernet Converter with Fiber port and LIU in our supply scope. Customer to clarify in case Modem needs to be used as communication device instead of Fiber Network, wherein scope of SIM card supply and its recurring charges shall be scope of customer	Refer RFP Clause 22.28.3 FRTU Functions
36	General-FRTU		Any kind of testing at SCADA/MCC/BCC/LCC end is excluded from the scope	All the test shall carried out as per RFP
37	Make	ACB/MCCB/MCB	ACB/MCCB/MCB shall be Schneider make	The request can be undertaken at the time of submission of GTP by successful contractor after award of work.
38	GENERAL		kindly provide the application of 1 way outdoor RMU	It is considered as an Extensible module
39	GENERAL		Separate RMU is without FRTU; if not required provision to be provided OR Not.	As per BOQ
40	Clause 13.1	The Bidder shall make the Earnest Money Deposit Rs. 2.6302 Crore (EMD through Online payment using Debit Card/Net Banking/RTGS/NEFT in favour of Chief Executive Officer, Faridabad Smart City Limited and enclosed online payment receipt in a separate, sealed envelope).	The EMD should be accept in Bank Guarantee form	The Clause 13.1 of the RFP shall be read as "The Bidder shall make the Earnest Money Deposit of Rs.1.351 Crore (50%) through Online payment using Debit Card/Net Banking/RTGS/NEFT and Rs. 1.351 crore (balance 50%) through Bank Guarantee in favour of Chief Executive Officer, Faridabad Smart City Limited. The BG format is enclosed. The Bidder shall upload the scanned copy of Bank Guarantee in e-procurement portal and also submit in original in physical submission.

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41	Pre-qualification Criteria: Clause II (b)	Joint venture or consortium of Bidders is permitted but should be limited to maximum 3 numbers. The Main Objective of the JV/consortium is to allow firms to technically collaborate for executing the various types of works defined in this tender.	-	The Clause II (b) on page No. 9 of the RFP shall be read as Joint venture or consortium of Bidders is permitted but should be limited to maximum 3 numbers. The Main Objective of the JV/consortium is to allow firms to technically collaborate for executing the various types of works defined in this tender. However, in case of JV , the Lead member should have completed at least one work in one of the category of the work indicated in the Table provided on Pg No 10 of the RFP.

EARNEST MONEY DEPOSIT (BANK GUARANTEE)

WHEREAS,..... [NAME OF BIDDER] (hereinafter called "the Bidder") has submitted his Bid dated hereinafter called "the Bid"].[date] for the work of.....[name of Contract hereinafter called "the Bid"].

KNOW ALL PEOPLE by these presents that We
[name of Bank] of.....[name of country] having our registered office at[name of Employer] (hereinafter called "the Employer") in the sum of,* for which payment well and truly to be made to the said employer the Bank itself, his successors and assigns by these presents.

SEALED with the common seal of the said Bank thisday of....., 20

THE CONDITIONS of this obligation are;

(1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the Form of Bid .

OR

(2) If the Bidder having been notified to the acceptance of his bid by the Employer during the period of Bid validity:

(a) fails or refuses to execute the form of Agreement in accordance with the Instructions to Bidders, if required; or

(b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

OR

(c) does not accept the correction of the Bid Price pursuant to Clause 23.

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date days after the deadline for submission of Bids or such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATESIGNATURE

WITNESSSEAL.....

[Signature, name and address]

* The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 13.1 of the Instructions to Bidders.