

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
DEPARTMENT OF ELECTRICAL ENGINEERING

Corrigendum 2 – Ref No. IIT/EE/SMART CITY/SCADA/2015/03/CORR02 Dt. 09.02.2016.

Sub: Reply to the queries raised by prospective bidders and Extension of Tender Deadlines.

This is in reference to the above Tender Notice regarding “The Supply, Installation, Testing and Commissioning of SCADA and Energy Management System for Smart City Pilot Project at Substations of IIT Kanpur” floated on the IIT Kanpur website at the link <http://www.iitk.ac.in/new/data/tender/file/IITEESMARTCITYSCADA201503.pdf> with Ref No: IIT/EE/SMART CITY/SCADA/2015/03 DT. 31.12.2015. The following information is to be added as **Corrigendum**:

The tender proceedings shall be held as per the following schedule:

- i) Last date of receipt of tender: 15.02.16 up to 1500 hrs.
- ii) Date of technical bid opening of tender: 22.02.16 at 1530 hrs.
- iii) Date of financial bid opening of tender: 29.02.16 at 1530 hrs.

The following queries were raised by various prospective bidders after the floating of Corrigendum-01 and the replies to the same are as given below:

SR. NO	SECTION	CLAUSE NO	DESCRIPTION OF CLAUSE	QUERIES	REPLY BY IIT KANPUR
1.	Notice Inviting Tender	8	The Tenderer should have completed satisfactorily at least *3 similar works each of value 40% of the estimated cost or *2 similar works of 50% of the estimated cost or *1 similar work of 80% of estimated cost during the last 5(five) years. (At least one work of them should be in Central Govt. /Central Autonomous bodies/ Central PSU/State PSU/ State Govt.)	We understand these project references are related to project implemented in India/Outside India.	The projects may be in India or outside but as mentioned at least one work of them should be in Central Govt. /Central Autonomous bodies/ Central PSU/State PSU/ State Govt.
2.	Notice Inviting Tender	8	Earnest Money Deposit	We request you to please accept EMD as Bank Guarantee by Scheduled Bank/ Nationalized Bank.	EMD may be accepted as Bank Guarantee from any scheduled/nationalized bank only.
3.	Special Conditions of Contract	1.2	Integration of Renewable energy system with Smart Home Automation System	Please elaborate the requirement of Renewable Energy System & Smart Home Automation System. "System Description Technical Specification" do not specify details for these requirements	Renewable energy systems and Smart Home Automation System are not a part of this tender. Kindly refer to the Corrigendum 01 on IITK website.

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4.	Special Conditions of Contract	1.24	On-Site Training	Please confirm the number of Trainees will be participating	Number of trainees will include number of Operating engineers, Research Engineers and associated manpower in the project.
5.	System Description Technical Specifications	2.1	Ethernet Local Area Network Communication Infrastructure for remote monitoring (to be supplied by Institute)	We understand that Ethernet Switches shall be available at all the RTU Locations as well as Centralized Control Room location, for Interfacing with RTU and SCADA System at respective locations.	Ethernet switches will be provided only at the Control Centre at one point and inside each of the sub-stations at one point.
6.	System Description Technical Specifications	2.3	Support the System Integrator (SI) in integrating the SCADA system with the AMI and other associated parts of the smart city project.	We understand that our responsibility of providing interoperable data of SCADA system supplied by us. Please confirm our understanding.	During execution of project you have to coordinate with the System Integrator in integrating the SCADA system with AMI.
7.	System Description Technical Specifications	2.4	Optional scope of work Supply of DMS applications that includes, but not limited to the distribution system state estimation application, fault management, load-shed application, and feeder reconfiguration application.	We request IIT to elaborate whether DMS is part of this project or not.	DMS is optional.
8.	System Description Technical Specifications	2.6	Typical Substation Architecture	Please share the Specification of GPS	Minimum features as provided by SEL 2407 Model.
9.	IV Special Conditions of Contract	1.25	Uptime Guarantee	Please clarify if the uptime of installed system is 99.998%.	Yes, the uptime is measured for the system in scope (hardware and software) sans communication medium.
10.	IV Special Conditions of Contract	1.26	Power requirement	Please confirm the auxiliary voltage available at site so that correct voltage level card can be considered.	Adding onto the System Requirement Technical Specifications point no. 2.7 of the tender it is hereby specified that, at our substations the battery voltage is 24 V dc. However the bidder has to quote the price of the RTUs including the required battery backup of suitable rating.
11.	VIII System description technical specifications	2.3	Mandatory Scope of work	Please provide the details of AMI & other associated parts to be integrated with SCADA.	We are yet to float the tender for AMI.
12.	VI SCC	1.12. Installation and Commissioning	All the materials shall be moved from their place of storage into the location by the contractor. The contractor shall make his own arrangement to off load materials received at respective air / rail / road transport terminal points, dispatch to site and to store all material received at site.	IIT shall provide the storage place in their premises till the completion of installation & commissioning	Acceptable
13.		2.15.	Alarms and events User shall be able to send alerts for the alarms / events through SMS / EMAIL	EMAIL server & required connectivity along with cables shall be provided by IIT.	Email server and required connectivity will be provided by IITK

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14.			RTU control Cables	The payment for the control cables will be as per the actual amount used. Unit rate can be quoted in offer with approximate quantity.	Yes
15.	Item Rate Tender	Pts (ii) and (iii)	ii) Technical bids will be opened in the presence of tenderers, who may be present, at 15:00 hrs. on 22.02.2016 in the office of Deputy Registrar, Stores and Purchase, IIT Kanpur. iii) Financial bids of only technically qualified bidders shall be opened in the presence of tenderers, who may be present, at 15:00 hrs. on 29.02.2016 in the office of Deputy Registrar, Stores and Purchase, IIT Kanpur.	Do we need to Submit technical bids first and then the commercial bid or are both to be submitted together?	Both technical and financial bids have to be submitted together.
16.	Item Rate Tender	3, Pt 5	Having valid electrical license.	The work involves SCADA, and we shall be primarily involved in the secondary side of the Power Network. In this case IIT may clarify as to why this is a primary qualification.	You can submit the Electrical License of the Contractor.
17.	VIII- System Description	2.3	Support the System Integrator (SI) in integrating the SCADA system with the AMI and other associated parts of the smart city project	IIT K may please clarify on the modality of integration with AMI	During the SI process, the SCADA data points need to be integrated with the Operational Data System (ODS) for wider area monitoring, control and analysis. The details will be provided in the SI tender.
18.	VIII- System Description	2.7	The communication protocol for RTU must support IEC 60870-5-104 and IEC 61850 and all other standard protocols required (MODBUS and IEC 60870-5-103) for all levels of communication such energy metering, relays, etc.	The RFP specifies that the RTU needs to be compliant to IEC 61850, but we not see any 61850 Compliant IED's in the SLD (given as part of the clarifications). The clarifications also mention the use of PLC based RTU's which to the best of our knowledge do not conform natively to IEC 61850.	The figure in the tender is only indicative in nature. We need IEC61850 based RTUs as some of the substations will be upgraded to the IEC61850 based SAS having BCU/IEDs/Gateways.

Note:The Terms and Conditions as well as the Clauses of the Tender will not be changed. No further queries regarding the Tender will be entertained hereafter.

Saikat Chakrabarti

Project Investigator (PI)

Associate Professor

Department of Electrical Engineering

Indian Institute of Technology

Kanpur 208016

India Office: 105D ACES

Email: smartcityiitk@yahoo.in

Phone: +91-512-2596598

Fax: +91-512-2590063 / 2590260