



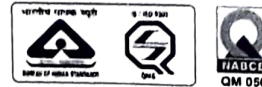
ASSAM ELECTRICITY GRID CORPORATION LIMITED

OFFICE OF THE MANAGING DIRECTOR

Regd. Office: (FIRST FLOOR), BIJULEE BHAWAN, PALTANBAZAR, GUWAHATI - 781001

CIN: U40101AS2003SGC007238GSTIN: 18AAFCA4973J9Z3

PHONE: 0361-2739520 Web: www.aegcl.co.in



No. AEGCL/CGM/SLDC/T-122/SF(AERC)/19/2022/05

Date: 24/01/2022

CORRIGENDUM-I

BID identification No :MD/AEGCL/SEM/SLDC/01/2021 Date 24/12/2021

CORRIGENDUM TO THE BIDDING DOCUMENTS FOR

1. "SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF SAMAST COMPLIANT 0.2 S CLASS ABT ENERGY METERS (433 NOS.) ON EXISTING METERING PANEL FOR GSSS OF AEGCL, TO BE INSTALLED AT THE T-D INTERFACE POINTS AND THE SUPPLIED METERS ARE TO BE INTEGRATED WITH NETWORK SWITCH AND LOCAL PC FOR VIEWING & DATA DOWNLOADING IN THE 70 NOS. OF GSSS OF AEGCL."
2. "SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 0.5S CLASS LT METERS IN GRID SUBSTATIONS OF AEGCL AND THE SUPPLIED METERS ARE TO BE INTEGRATED WITH THE LOCAL PC AVAILABLE AT SUBSTATIONS THROUGH NETWORK SWITCH."

The following provisions of the tender documents against the subject package are revised to the following extent:

- 1.0 Under Section DETAILS SCOPE OF WORK Page No. 5 the clause 13.3 has been modified as follows:

"Supply, Installation, Testing & Commissioning of 0.5s Class LT Meters with ring CT in the existing LT panel of Grid substations of AEGCL and New/upcoming Grid Substations (70 nos.) ."

- 2.0 Under Section SUPPLY, INSTALLATION AND COMMISSIONING OF BCS SYSTEM FOR METER DATA COLLECTION Page No. 7 the clause 18.1 has been modified as follows:

"The intent of meter data collection scheme proposed in this document is to automate the task of data collection from each meter/location to the local PC through BCS. "

- 3.0 Under Section Mandatory Financial Criteria (Table 2) ,Page No.10 the clause 26.1 has been modified as follows:

- 12.1 Table 2: Mandatory Financial Criteria

The following mentioned financial criteria is mandatory for the submission and the Participant is expected to submit the mentioned supporting documents.

S.N.	Financial Requirements	Documents Needed	Form to be filled
1	The Participant must have a positive net worth in each of the last Five (5) financial years (FY 2014-15 to FY 2018-19). Here, net worth means the sum total of the paid up capital and free reserves (excluding reserves	A certified document by a Chartered Accountant or audited balance sheet of last Five (5) financial years ending at the date of RFP	Form "FIN-1" with attachments

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	created out or revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets.	opening needs to be submitted.	
2	Minimum Average Annual Turnover (MAAT) of Participant should not be less than one hundred (100) Crores for best 3(three) financial years out of past 5(five) financial years(FY 2014-15 to FY 2018-19)	Audited balance sheet of Participant of last five (5) financial years ending at the date of RFP opening in support of above needs to be submitted.	Form "FIN-2" with attachments
3	Financial Resources/ Cash Flow: The Bidder(s) must demonstrate access to, or availability of financial resources such as liquid assets, unencumbered real assets, line of credit, and other financial means, other than any contractual advance payment to meet the Cash-flow requirement of Rs 1,00,00,000(1 crore only)		Form "FIN-3" with attachments

4.0 Under Section TECHNICAL QUALIFICATION CRITERIA FOR PARTICIPANT: AMR Page No.10 the clause 28.3 has been modified as follows:

The following mentioned technical qualification criteria is mandatory for the submission and the Participant is expected to submit the mentioned supporting documents.

S. N	Eligibility criteria	Document evidence to be submitted
1	The Participant must have AMR project experience of more than 500 nos. of ABT Energy Meters in last 5 years.	Work Order / Purchase Order / Contract Agreement and Go-live / Completion Certificate from the client

The Participant needs to submit work plan and manpower deployment plan in the technical proposal.

5.0 Under Section Participant's Manpower requirement Page No. 11 the clause 28.4 has been modified as follows:

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The following mentioned Manpower qualification criteria is required by the Participant. Supporting documents should be provided along with the RFP

S.N	Position	Count	Minimum Qualification	Minimum Work Experience
1	Project Manager	1	B.E./B. Tech	15 (Fifteen) years of experience in Power sector
2	Team Lead - Meter	1	B.E./B. Tech	10 (ten) years of experience in IT / Power sector with minimum 5 (Eight) years of experience in Supply, installation and commissioning of meters.
3	AMR expert	6	B.E./B. Tech/ Diploma	5 (Five) years of experience in AMR projects.

6.0 Under Annexure A Schedule A BASIC FEATURES OF INTERFACE ENERGY METERS Page No. 21 the clause 2 (d) is modified as follows:

Auxiliary Supply to IEM. The meters shall normally operate with the power drawn from DC auxiliary power supply (Range 110V to 220V DC) to reduce the Voltage Transformer (VT) burden. In addition, there shall be provision to operate the meter from the Voltage Transformer (VT) secondary circuit having a rated secondary line-to-line voltage of 110V, and current transformers (CTs) having a rated secondary current of 1 A or 5A. Any further transformers/ transactions/ transducers required for their functioning shall be in-built in the meters. Necessary isolation and/or suppression shall also be built-in, for protecting the meters from surges and voltage spikes that occur in the VT and CT circuits of extra high voltage switchyards as per IS 14697. The reference frequency shall be 50Hz. Also, the meter shall have suitable tolerance (up to 15% either side) for DC supply.

7.0 Under Annexure A Schedule A BASIC FEATURES OF INTERFACE ENERGY METERS Page No. 22 the clause 2 (e) is modified as follows:

The meters shall safely withstand the usual fluctuations arising during faults etc. In particular, VT secondary voltages 115% of rated applied continuously and 190% of rated for 3.0 seconds, and CT secondary current 150% of Iref applied continuously and 20 times of rated applied for 0.5 seconds shall not cause any damage to or maloperation of the meters.

8.0 Under Annexure A Schedule A BASIC FEATURES OF INTERFACE ENERGY METERS Page No. 22 the clause 2 (g) is modified as follows:

"The total burden imposed by a meter for measurement and operation shall be defined as per IS 14697. An automatic backup for continued operation of the meter's calendar-clock, and for retaining

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all data stored in its memory, shall be provided through a long-life battery, which shall be capable of supplying the required power for at least 2 years. The meters shall be supplied duly fitted with the batteries, which shall not require to be changed for at least 10 years, as long as total VT interruption does not exceed two years."

9.0 Under Annexure A Schedule A BASIC FEATURES OF INTERFACE ENERGY METERS Page No.

22 the clause 2 (i) is modified as follows:

"Exception Management- The three line-to-neutral voltage shall be continuously monitored and in case any of these falls below defined threshold (70% of V_{ref}), meter shall have suitable indication on LED/LCD. The meter shall also have provision for low voltage event logging in meter memory in case of any phase voltage going below a defined threshold. The time blocks in which such a voltage failure occurs/persists shall be recorded in the meters memory with a symbol "*" (preferred) if three phase rms voltage applied to the IEM is in between 25% to 70% of V_{ref} and if voltage is less than 25% of V_{ref} , meter should record zero voltage symbol "Z" (preferred).

10.0 Under Annexure A Schedule A BASIC FEATURES OF INTERFACE ENERGY METERS Page No.

22 the clause 2 (i) is modified as follows:

"A touch key or push button shall be provided on the meter front for switching on the display and for changing from one indication to the next. When the display is switched on, the parameter last displayed shall be displayed again, duly updated."

11.0 Under Annexure A Schedule A BASIC FEATURES OF INTERFACE ENERGY METERS Page No.

23 the clause 2 (n) is modified as follows:

"The portable hand held unit (HHU)/ Common Meter Reading Instrument (CMRI)/ Data Collecting Device (DCD) shall be having IS 15959:2011 compatibility for standardized parameters."

12.0 Under Annexure A Schedule A MEASUREMENT Page No. 24 the clause 3 (f) is modified as follows:

"The meter shall also integrate the reactive energy (VARh) algebraically into two separate registers, one for period for which the average RMS voltage is above 103.0%, and the other for the period for which the average RMS voltage is below 97.0%. The current reactive power (VAR), with a minus sign if negative, and cumulative reactive energy (VARh) readings of the two registers (>103% and <97%) shall be displayed on demand. The readings of the two registers at each midnight shall be stored in the meter's memory. When reactive power is being sent out from substation busbars, VAR display shall have a plus sign or no sign and VARh registers shall move forward. When reactive power flow is the reverse direction, VAR display shall have negative sign and VARh registers shall move backwards. Generally, the standard PT ratio are 220KV/110 V, 400KV/110V and 765KV/110V, however, at the time of commissioning the vendor may confirm the same from site and supply the meter accordingly."

13.0 Under Annexure A Schedule A MEASUREMENT Page No. 25 the clause 3 (g) is deleted.

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24/10/22

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14.0 Under Annexure A Schedule A MEMORY/STORAGE Page No. 25 the clause 4 (x) is deleted.

15.0 Under Annexure A Schedule A COMMUNICATION Page No. 26 the clause 6 is modified as follows:

- a) Each meter must have an optical port on its front for tapping all data stored in its memory through HHU. In addition to the above each meter shall also be provided with a RS-485, Ethernet port and RS232 port on one of its sides, from where all the data stored in the meter's memory can also be transferred to CDCS (through DCU) and local computer. The overall intention is to tap the data stored in the meter's memories at a scheduled time from any of the above mentioned ports or any other means and transmit the same to a remote central computer using suitable means of communication. It shall be possible to securely download the IEM data through an optical port and MRI in an authentication process. Meter data shall be tamper-proof.
- b) All meters shall be compatible with Optical port, RS-485 port, Ethernet port and RS-232 port all together at a time and communicate independently. It shall also be possible to obtain a print out (hard copy) of all data collected from the meters, using the local PC. Data collection from any local laptop/PC shall be possible by installing data collection software. This is for bringing all the RFPs on common platform. However, the selected agency will have to conduct detailed survey regarding availability of the particular service for all locations. The Participant may conduct Field Survey before submission of RFP.
- c) The Participant shall adhere to the appropriate security algorithm for encryption and decryption.
- d) **The Participant shall provide the necessary software which would enable a local PC to:**
 - i. Accept the data from the Optical/Ethernet/WAN and store it in its memory in user defined formats (text, csv, xls, etc.) in a user-defined file name (file name format must be dd/mm/yy substation name-utility name).
 - ii. Polling feature along with a task scheduler to run the data downloading software at a pre-designated date and time repeatedly or by manually selecting a meter. File naming for such downloaded data should also be in user-defined format. A detailed activity log shall also be available for each downloading operation.
 - iii. Upload/Import meter data (binary files) in the software for further processing. While uploading, there shall be provision to upload all selected files with single key-stroke.
 - iv. Convert the binary file(s) to text file(s). There should be provision to select multiple files based on filename, convert all selected files with single key-stroke and store the text files in the same location where binary files are stored.
 - v. Display the collected data on PC's screen in text format, with forward/backward rolling
 - vi. Print out in text format the data collected from one or more meters, starting from a certain date and time, as per operator's instructions

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- vii. Transmit the collected data, in binary format, through an appropriate communication link to the central computer, starting from a certain date and time, as per operator's instructions.
- viii. Store the collected data in binary format, on a CD/Pen Drive. In addition to above, in general the software shall be able to convert IEDMs data to existing format as well as in tabular (.csv) format as applicable.
- 9) The above software shall further ensure that absolutely no tampering (except erasing of complete data with password protection) of the collected metering data is possible during its handling by the PC. The software shall be suitable for the commonly available PCs, (Windows) and shall be supplied to Owner in a compatible form to enable its easy loading into the PCs available (or to be installed by the Owner/others) at the various substations.
- 9) The quality of installation of the various equipment & power supply wiring to all field equipment shall be as per standards/ regulations/prevalling practices of the utility. The supply of electricity needed for operation and maintenance of entire Metering system shall be provided free of cost by the respective owners of the premises.

16.0 Under Annexure A Schedule A TESTING Page No. 29 the clause 9 (c)(ii) is modified as follows:

Downloading meter data through RS232.

17.0 Under Annexure A Schedule A TYPE TEST Page No. 29 the clause 9 is modified as follows:

Supplier has to produce type test reports with the techno-commercial bids

18.0 Under Annexure A Schedule A ANOMALY DETECTION FEATURES Page No. 30 the clause 10 is modified as follows:

The paragraph following the table is replaced as hereunder:

Once one or more compartments have become full, the last anomaly event pertaining to the same compartment shall be entered and the earliest (first one) anomaly event should disappear. Thus, in this manner each succeeding anomaly event shall replace the earliest recorded event, compartment wise. Events of one compartment/category should override the events of their own compartment/category only. In general, it is preferred that persistence time of 1 minute for occurrence and restoration respectively need to be supported in meter.

19.0 Under Annexure A Schedule A GENERAL Page No. 31 the clause 12(i) is deleted.

20.0 Under Annexure A Schedule A DISMANTLING/BUY BACK OF EXISTING SEM Page No. 31 the clause 13 is modified as follows:

Dismantling of existing meters: Dismantling of existing meters and handing it over to the concerned officers is in the scope of the bidder.

21.0 Under Annexure A Schedule B OBJECTIVE & SCOPE Page No. 33 the clause 1 is modified as follows:

5.1.520.3/10/12



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26.0 Under Annexure A Schedule B QUANTITIES TO BE MEASURED Page No. 38 the clause 17 is modified as follows:

The meter shall be able to provide the following data in line with Category 'A' type as per IS 15959 - Indian Companion Specification.

- a) Instantaneous Parameters
- b) Block Profile / Load Survey data
- c) Abstract quantities
 - Name Plate Details
 - Programmable parameters
- d) Event Conditions.

The meter shall be able to measure and provide the parameters listed in the guideline document. The OBIS code for each parameter shall be as identified as per DLMS /COSEM protocol in line with Indian companion standard.

27.0 Under Annexure B LIST OF SUBSTATION Page No. 44 the table has been modified as follows:

Sl No	Name of the Substation	Total Nos of 33kV Feeder meter.	33/0.4KV transformer LT meters	station
1	Agia	6	1	1
2	APM	4		1
3	Barnagar	8		1
4	Bilashipara	6		1
5	Behaliang	7		1
6	B. Chariali	5		1
7	Bokakhat	5		1
8	Bokajan	7		1
9	Boko	6		1
10	Bordubi	5		1
11	BTPS(Salakati)	5		1
12	Baghriap	4		1
13	CTPS	4		1
14	Capital(Dispur)	6		1
15	Depota	12		1
16	Dhaligaon	8		1
17	Dhemaji	6		1
18	Dhekiajulee	4		1
19	Dibrugarh	11		1
20	Diphu	5		1
21	Dullabcherra	3		1
22	Garagaon(Nazira)	9		1
23	Gauripur(Matlabag)	7		1

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24	Ghoramari	5	1
25	Gohpur	5	1
26	Golaghat	5	1
27	Gossaigaon(Joyma)	6	1
28	Haflong	6	1
29	Haikandi	5	1
30	Jawaharnagar GIS	7	1
31	Jorhat(West)	6	1
32	Jorhat (Saramur)	5	1
33	Kahilpara	15	1
34	Kamapur GIS	5	1
35	Kokrajhar	4	1
36	Khaloigaon(Nagaon)	5	1
37	Kamakhya GIS	5	1
38	LTPS	4	1
39	Ledo(Margherita)	7	1
40	Matia	5	1
41	Mirza(Kukumara)	6	1
42	Majuli	4	1
43	Mariani	6	1
44	Moran	5	1
45	Nalkata(N. Lakhimpur)	5	1
46	Nalbari	6	1
47	Narengi	5	1
48	NTPS	12	1
49	Pailapul	6	1
50	Panchgram	9	1
51	132KV Rangia	7	1
52	Rowta	7	1
53	Rupai	5	1
54	Samaguri	11	1
55	Sarusajai	8	1
56	Sisugram	11	1
57	Sankardevnagar(Lanka)	7	1
58	Sonabil	0	1
59	Sibsagar(Betbari)	5	1
60	Siapahar(Poonia)	5	1

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6.1	Sonari	5	1
6.2	Sonapur GIS	6	1
6.3	Srikona	5	1
6.4	Tinsukia	13	1
6.5	Umrangshu	4	1
6.6	Azara	3	1
6.7	Karimgang	5 Nos. (132 & 33kV)	1
6.8	Hatsingimari	9 Nos. (132kV & 33kV)	1
6.9	Berpeta	10 Nos. (132 & 33kV)	1
7.0	220kV Rangia	0	1
Total		433	70

25. Base Computer Software:

- The BCS software should be able to generate alarms in the time drift in meters and should also be able correct the same through BCS.
This point is included additionally with the other points of BCS.

26. Under Annexure A Schedule B Page No. 34 the clause 5 is modified as follows:

INFLUENCE QUANTITIES:

The meter should be designed and protected such that all external effects and influences shall not change its performance & shall work satisfactorily within guaranteed accuracy limits, as specified in IS 14697: 1999 / CBIP technical report – 325, under the presence of influence quantities.

27. Under Annexure A Schedule B Page No. 36 the clause 9(a) is modified as follows:

DISPLAY OF MEASURED VALUE:

- a) The measured value(s) shall be displayed on seven/eight segments, seven/eight-digit Liquid Crystal Display (LCD) display unit/register, having minimum character height of 10 mm.

28. Under Annexure A Schedule B Page No. 38 the clause 18(e) & 18(f) is modified as follows:

18(e)Magnetic Influence - The Meter shall be capable of detecting and recording of presence of abnormal magnetic influence near the meter, if the magnetic influence affects the meter functionality. The meter should record at Imax on account of magnetic influence. Separate legend for magnet event shall be made available on LCD. This legend is present on display till tamper is present

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18(j) Cover open. The meter shall be able to detect cover open occurrence event if cover is opened in mains on or off condition. Separate legend for cover open event shall be made available on LCD. This legend shall remain in on state till cover open is non-roll over tamper and its icon always remain on Display and never Reset.

27. Annexure-C, BOQ items, Page no: 46 has been modified as follows:

Annexure C

Bill of Quantities (BOQ):

The schedules of requirement in respect of 'Major Goods and Services' are listed below:
SUPPLY PART

Field Level Infrastructure at Substation Switchyard

SN	Description	UOM	Total Qty
1	0.2s Class ABT Meter (Annexure-I)	No	433
2	0.5S CLASS LT Meters (Annexure-I)	No	70
3	Resin Cast Ring Type LT CT 0.5, 5 VA - Set of 4 CTs (200/5A or 400/5A	set	70
4	Industrial Grade Network Switch, L2, 8/16 Port + 2 SFP Port + SFP Module, unmanaged	No	80
4	CMRll(Common Meter Reading Instrument)	No	20
5	Client PCs : Client PCs, i-3 processor, 8GB RAM, 1TB HDD (Preferred Commercial Model) with keyboard and optical mouse (minimum 21" TFT monitor) with windows-10 operating system (Prof), MS office standard edition, 600VA UPS	Set	69
*4	Others (For any additional Hardware required for Complete installation and commissioning, tenderer to specify)	No	LS

* In addition to the BoQ line items for sub-stations the following items need to be supplied wherever required:
Fiber Optic Distribution Panel (FODP) 48 fiber, Armored Single Mode Fiber Optic Cable, Armored Multi Mode Fiber Optic Cable, Miscellaneous Communication Cable(CAT6/CAT5e armored), RJ45 Connector Optical Patch Cord etc.

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For connection of meter to CT, PT the following items need to be supplied:
Wire (10 Core, 2.5 Sq MM) For CT wiring, Wire (5 Core, 2.5 Sq MM) For PT wiring
Bidders may assess the quantities required for the same prior to RFO submission.

** Software for fulfilling performance along with required licenses for all supplied hardware as per technical specification is to be provided by the contractor

28. Annexure-D: Sample format for submission of Price Bid has been modified as follows:

PRICE SCHEDULE (To be submitted in the Part-II, 'Price bid' in sealed envelope in quadruplicate)

Sl No	Particulars	Qty & unit	Unit Price	Unit F&I	Unit Total	Total Price	HSN code
1.	Supply of 0.2s class ABT energy meter	433 nos.					
2.	Supply of 0.5s class LT CT meters	70 nos.					
3	Supply of resin case ring CT	70 set.					
4	Industrial Ethernet Switch	69 nos.					
5	Common Meter reading instrument	20 nos.					
6	Client PCs : Client PCs with keyboard and optical mouse (minimum 21" TFT monitor) with windows-10 operating system, MS office, 600VA UPS	69 nos.					
7	Cat-6 cable	35 rolls of 305 meters each(approx.)					
8	Installation, Testing & Commissioning of 0.2s class ABT	433 nos.					

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	meters by replacing the old meter in the existing/new C&R panel with retrofitting works if required.					
9	Installation, Testing & Commissioning of 0.5s class LT energy meters with external ring CT set by replacing the old meter in the existing/new panel with retrofitting works if required.	70 nos.				
1	Installation of 69 nos. of Industrial Ethernet switch	69 nos.				
1	Networking from meter to meter & Integration of 433 nos. of ABT energy meters to network switch, Installation of BCS software at Substation PC etc and data should be available at Local PC for viewing & data downloading through BCS.	69 nos. of Substations.				

Handwritten signature and date: 20/10/22

Handwritten signature

Chief General Manager
SLDC, AEGCL, Kahilipara

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Memo No. AEGCL/CGM/SLDC/IT-122/SF(AERC)/19/2022/05(a)

Date: 24/01/2022

Copy to:-

The DGM,IT cell, O/o the MD, AEGCL for upload in the AEGCL's website.

Chief General Manager

U. D. S.