MINUTES OF PREBID MEETING FOR SUPPLY INSTALLATION AND COMMISSIONING OF PHASOR MEASUREMENT UNITS (PMUS)

MINUTES OF PRE-BID MEETING HELD ON:	12.11.2026
FUNDING AGENCY	AIIB-SS
NAME OF THE WORK	*"Supply Installation and Commissioning of Phasor Measurement Units (PMUs) for upcoming 400 kV and 220 kV Grid Substations and associated Transmission lines under AIIB-SS"*
BID NO.	AEGCL/MD/AIIB/PMU/2026/BID

OPENING REMARKS:

The meeting started with introduction of all the Bidders present physically as well as virtuallyand a warm welcome was extended to all the prospective bidders.

A brief introduction of the scope of work was explained to all the prospective Bidders and the Bidders were requested to table their most prioritized queries.AEGCL assured the prospective bidders that comprehensive reply/clarifications shall be prepared and uploaded in the AEGCL site as well as e-tender portal in response to their raised queries on the bid document.

NAMES OF TENDER QUERIES FINALIZATION COMMITTEE MEMBERS:

1. FROM EMPLOYER:

1. Smt Jayashree Devi, Chief General Manager (PP&D), AEGCL, Paltanbazar, Guwahati-01
2. Sri. Ankur Pratim Das, General Manager, EAP, AEGCL, Paltanbazar, Guwahati-01
3. Sri R. Khargaria, General Manager (P&D), AEGCL, Paltanbazar, Guwahati-01
4. Sri Anjan Jyoti Choudhury, Deputy General Manager-I, EAP, AEGCL, Paltanbazar, Guwahati-01
5. Smt. Toushita Jigdung, Deputy General Manager (Logistic), SLDC
6. Sri Debasish Choudhury, Deputy General Manager (Operations), SLDC
7. Sri Arup Sarma, AGM, Communication Division,LA,AEGCL
8. Sri Nillutpal Bhattacharjee, Deputy Manager SLDC
9. Sri Bedanta Kr. Dutta, Deputy Manager P&D
10. Sri Sachankar Buragohain, Deputy Manager(EAP)

2. FROM PROSPECTIVE BIDDERS:

A. BIDDERS THAT WERE PRESENT AT THE PRE-BID MEETING:

1. Mr. Supriyo Paul, National Head, M/S MB Control & Systems Pvt. Ltd
2. Mr. Shirshendu Chakraborty, Sales Manager (Est),M/S MB Control & Systems Pvt. Ltd
3. MrAbhishek Adhikary, Engineer, M/S MB Control & Systems Pvt. Ltd
4. Ritesh Sahewalla
5. Mr.Debarshi Roy, Manager OG P&A East, M/S Scope(Through VC mode)

B. Bidders that submitted queries but did not attend the pre-bid meeting:

1. Mr. Davinder Mohan Sood, Executive Director, M/s Valiant Communications Limited

TABLE-1(A): VOLUME-I

SL NO	Clause No./ Section/ Page No.	Description	Queries	Response	Reference to Sl. No. of Addendum [Table 2] wherever applicable
Section 2: Evaluation and Qualification Criteria					
1	2.4.2(a)	Participation as contractor (sole or partner in a JV) in contract of the following nature within last 5 (Five) years from the date of floating the Bid, that have been successfully completed: a. Three similar completed works costing not less than the amount equal to 46 lakh. Or b.Two similar completed works completed works costing not less than the amount equal to 58 lakh. Or c.One similar completed work costing not less than the amount equal to 92 lakh	**The bidder proposed that the respective clause may be modified as follows:** Participation as contractor (sole or partner in a JV) in contract of the following nature in any Government utility\PSU\Railways\ Private Utility\ IPP with integration to RLDC (Grid India) \ SLDC in contract of the following nature within last 5 (Five) years from the date of floating the Bid, that have been successfully completed: a. Three similar completed works costing not less than the amount equal to 46 lakh. Or b.Two similar completed works completed works costing not less than the amount equal to 58 lakh. Or c.One similar completed work costing not less than the amount equal to 92 lakh	A. **Accepted** please refer Addendum. However, the Bidders have to submit undertaking in regards to supply of genuine products as per Technical Specs.	TABLE:2 (VOLUME-1) Sl No. 1

SL NO	Clause No./ Section/ Page No.	Description	Queries	Response	Reference to Sl. No. of Addendum [Table 2] wherever applicable
2	2.4.2 (ii)	The installation of Phasor Measurement Unit (PMU) shall be done by a firm who has previous experience of installation, testing and commissioning of at least One/Two in a single project or Seven Nos in Total in Government utility\PSU\Railways and must be in satisfactory operation for at least one (1) year as on the date of opening of tender enquiry.	**The bidder proposed that the respective clause may be modified as follows:** The installation of Phasor Measurement Unit (PMU) shall be done by a firm who has previous experience of installation, testing and commissioning of at least One/Two in a single project or Seven Nos in Total in Government utility\PSU\ Railways\ Private Utility \ IPP with integration to RLDC (Grid India) \SLDC and must be in satisfactory operation for at least one (1) year as on the date of opening of tender enquiry.	**A. Accepted** as mentioned above.	**TABLE:2 (VOLUME-1) Sl No. 2**
3	2.5 Point 1	Minimum Criteria to be met - The manufacturer or supplier must have designed, manufactured, type tested and supplied listed equipment, which are in successful operation for at least 1 (one) years as on the date of Tender opening. The Tenderer should list such works executed to substantiate the requirement of this Clause.	Form EXP-3 attachment not found.	**A. Noted.**	**Refer Addendum**
4	2.6	The bidder should have experience in supply and commissioning of Phasor Measurement Unit (PMU) to Government utility\PSU\Railways.	The bidder should have experience in supply and commissioning of Phasor Measurement Unit (PMU) to Government utility\PSU\Railways\ Private Utility \ IPP with integration to RLDC (Grid India) \ SLDC	**A. Accepted** as mentioned above.	**TABLE:2 (VOLUME-1) Sl No. 3**
5	3.5.1	The Contractor should be in possession of a valid E.H.V. Electrical Contractor License and Electrical Supervisory License issued by the Chief Electrical	Please clarify if the Bidder should have the E.H.V. license, or the successful Bidder's site contractors should have this license. Please note, PMU installation will be done in the	**A. Noted.** The concerned person who shall execute the work at site should possess adequate license	

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		Inspector, Govt. of Assam, as per the provision of Law. An attested copy of the aforementioned License must be handed over to the Owner for his record prior to handing/taking over of sites.	Control Room under shut down conditions.		
6	3.16.6	The Contractor shall be responsible for making suitable indoor storage facilities, to store all items/materials, which require indoor storage	We request AEGCL to provide the indoor storage facility at their sub stations. All material movement will be handled by the bidder.	A. **Noted.** AEGCL shall provide for storage subject to availability at site. However, responsibility of the same relies on the Successful Bidder.	
7	3.16.7	The Contractor shall have total responsibility for all equipment and materials in his custody, stored, loose, semi-assembled and/or erected by him at site. The contractor shall make suitable security arrangements including employment of security personnel to ensure the protection of all materials, equipment and works from theft, fire, pilferage and any other damages and loss.	We request AEGCL to provide their substation security for this purpose. Since the Substation will be access protected, AEGCL existing security personnel will be sufficient.	A. No change. As per BID	
Others					
8	2.4.2(a)	Experience	**Requested Proposed relaxation request 1:** Domestic manufacturers who do not meet the prior- supply QR may be asked to provide an additional two-year comprehensive warranty, at no extra cost.	A. No change. As per BID	

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9	2.4.2(a)	Experience	**Requested Proposed relaxation request 2:** Additionally, such domestic OEM manufacturers may also be asked to furnish an additional bank guarantee as financial security.	**A.** No change. As per BID	

TABLE-1(B): QUERIES ON TECHNICAL SPECIFICATIONS(VOLUME-II)

SL NO	Clause No./ Section/ Page No.	Description	Queries	Response	Reference to Sl. No. of Addendum [Table 2] wherever applicable
1	2.1	The Integration of the supplied PMUs with PDCs at SLDC and NERLDC shall beunder the scope of the successful Bidder. The Bidder shall also extend technical support at Local end for seamless integration of the PMU with PDC at SLDC & NERLDC end.	'Please note, the bidder can support with the integration task only. Actual PDC configuration should be scope of SLDC and NERLDC as per URTDSM Phase-1.	**Noted** The support at the Local End for the integration of the supplied PMUs will be under the scope of the Bidder. Necessary support for PDC configuration shall be provided by NERLDC, POWERGRID For commissioning of the PMUs, the requisite configuration settings shall be	

SL NO	Clause No./ Section/ Page No.	Description	Queries	Response	Reference to Sl. No. of Addendum [Table 2] wherever applicable
				provided and these settings shall be configured in the PMUs by the successful Bidder in co-ordination with AEGCL.	
2	2.2.2	The time synchronization receiver shall support IRIG-B time profile as defined in IEEE C37.118.1-2011, IEEE C37.118.1a-2014, and IEEE C37.242-2013. It shall comply with IEC/IEEE 60255-118-1:2018 standard for synchro-phasor measurement requirements and shall also be fully compliant with IEEE 1588v2 Precision Time Protocol (PTP). These provisions will ensure interoperability with PMUs, CCUs/PDCs, and other compliant equipment. The bidder shall submit all relevant certificates demonstrating NaVIC and GNSS functionality testing, accuracy validation, and interoperability compliance with the above standards. In addition, the bidder shall provide documented evidence of compliance with applicable cybersecurity norms, including protection of management interfaces, secure firmware/software design, and	'Since there is no 3rd party certification for NaVIC and GNSS functionality certification for readily available GPS Master Clocks, please confirm if we can provide self- certifications from the GPS Master Clock manufacturer for the same. Please confirm if IEC 62351 or equivalent cyber security framework self-certification by the manufacturer is acceptable since GPS Master clock manufacturers do not have third party certifications available.	TIME SYNCHRONIZATION DEVICE TO BE MTCTE CERTIFIED and should support both GNSS and NaVIC as per bid.	

SL NO	Clause No./ Section/ Page No.	Description	Queries	Response	Reference to Sl. No. of Addendum [Table 2] wherever applicable
		adherence to IEC 62351 or equivalent security frameworks.			
3	2.2.7	The supplied GNSS &NaVIC receivers shall be suitable for continuous operation in substation environments that may not be fully air-conditioned. The equipment shall be designed to operate within a temperature range of -10 °C to +55 °C and a relative humidity range of 5% to 95% non-condensing. The receiver shall be housed in an enclosure providing at least IP-52 protection for indoor installation, while the outdoor antenna shall meet minimum IP-65 protection. The equipment shall comply with IEC 61000 series EMC standards and IEC 60068-2 environmental standards for vibration, shock, and transport. Power supply options shall be compatible with typical substation DC (48/110/220 VDC) and AC (230 VAC ±15%) sources.	'1. We propose operating temperature of 0 - 55C, since the site's ambient conditions will never go below 0C. 2. We propose a relative humidity range of 20 - 95% non-condensing. We will be installing a Panel Heater inside to maintain the humidity inside the panel. 3. The receiver enclosure will be IP20, however, the PMU panel which houses the GPS Receiver will be IP-54 making the entire system a minimum of IP-54.	1. Accepted 2. Accepted 3. Noted	**Table 2: Volume-II Sl No 1**
4	2.3.4	The switch shall support secure access and management using SSH, HTTPS, SNMPv3, and Syslog. Role-Based Access Control (RBAC) shall be	'We propose providing IEC-62443 cyber security compliance instead of IEC-62351 as L3 Switch manufacturers do not have this certification ready as of now.	May be accepted	

SL NO	Clause No./ Section/ Page No.	Description	Queries	Response	Reference to Sl. No. of Addendum [Table 2] wherever applicable
		provided. The device shall comply with IEC 62351 cybersecurity guidelines and shall include protection against unauthorized access.			
5	2.4.1	The switch shall integrate with the Network Management System (NMS) supplied under this project, exposing status, alarms, and performance data. It shall support centralized monitoring of port health, link utilization, and error statistics	'Please note: High Availability in Firewall means that there should be 2 Firewall units, either running in Active / Active or Active / Passive. Please clarify, if the bidder should provide One (1) Firewall which has the provision to support High Availability Modes, or if the bidder has to supply Two (2) Firewalls running on High Availability Mode.	2 nos of Firewall	
6	3.1.3 Table 1, Point 19	Radiated Electromagnetic Field Test as per IEC 61000-4-3 or IEC 60255-22-3 Severity Level 3	'IEC 61000-4-3:2020 is the current basic test standard. It defines the test method, field levels, frequency range, and test procedure for radiated RF electromagnetic-field immunity. Further, IEC 60255-22-3:2007 is no longer current. It was withdrawn in 2013 and replaced by IEC 60255-26. Offered product-family EMC standard is IEC 60255-26:2023, which covers measuring relays, protection equipment, monitoring, communication, and process-interface equipment, including radiated immunity requirements. Kindly accept	A. **Accepted** please refer Addendum.	**Table 2: Volume-II Sl No 2**