MINUTES OF PREBID MEETING FOR CONVERSION OF EXISTING 132/33KV GOHPUR AIR INSULATED SUBSTATION (AIS) TO GAS INSULATED SUBSTATION (GIS)

MINUTES OF PRE-BID MEETING (VIDEO CONFERENCE) HELD ON:	17.01.2022
NAME OF THE PROJECT	ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECTS
FUNDING AGENCY	ASIAN INFRASTRUTURE INVESTMENT BANK (AIIB)
NAME OF THE WORK	Conversion of existing 132/33kV Gohpur Air Insulated Substation (AIS) to Gas Insulated Substation (GIS) (Package F)
IFT No.	AEGCL/MD/AIIB/PACKAGE-F/2021/02-F
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NAMES OF THOSE PRESENT:

I. FROM EMPLOYER:

- 1. Lekha Bhuyan, CGM (PP&D), AEGCL
- 2. Himangshu Baishya, GM (P)-cum-Project Director (AIIB), AEGCL
- 3. Anindita Das, DGM-I, AEGCL
- 4. Dipayan Chanda, AGM-I, AEGCL
- 5. Kashi Nath Baishya AGM (F&A), AEGCL
- 6. Jharna Devi, DM, AEGCL
- 7. Prankrishna Das, AM, AEGCL

II. FROM PROSPECTIVE BIDDERS:

A. <u>REPREESNTATIVE OF FOLLOWING BIDDERS WERE PRESENT IN THE PRE-TENDER MEETING VIA VIDEO-CONFERENCE:</u>

- 1. SIEMENS INDIA LTD.
- 2. GE T&D LTD.
- 3. BLUESTAR LTD.
- 4. GODREJ ELECTRICALS AND ELECTRONICS.
- 5. SALASAR TECHNO ENGINEERING LTD

B. <u>FOLLOWING BIDDERS WERE NOT PRESENT IN THE PREBID MEETING, HOWEVER SUBMITTED THE QUERIES VIA E-MAIL BY 17.01.2022.</u>

- 6. SHYAMA POWER INDIA LTD.
- 7. NARESH AGARWAL CONSTRUCTIONS PVT. LTD.
- 8. MBH POWER PVT. LTD.
- 9. RS INFRA PROJECTS PVT. LTD.
- 10. APS IND!A
- 11. YAN ENGINEERS

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OPENING REMARKS IN THE MEETING

Sri. Himangshu Baishya, GM (P)-cum-Project Director (AIIB), AEGCL extended a warm welcome to all the prospective bidders and introduced his team. General Manager (P), AEGCL explained the project's scope and requested the prospective bidders to table their most prioritized queries, considering the bulk of queries already submitted and the limited time. General Manager (P), 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.

MEMBERS OF THE PRE-BID COMMITTEE:

- 1. CHIEF GENERAL MANAGER (PP&D), AEGCL
- 2. GENERAL MANAGER (P&D), AEGCL
- 3. GENERAL MANAGER (EAP), AEGCL
- 4. DEPUTY GENERAL MANAGER-I (EAP), AEGCL
- 5. DEPUTY GENERAL MANAGER (P&D), AEGCL

The queries submitted by the prospective bidders were discussed by the Pre-Bid Committee and the observations made are as follows in Table-1.

QUERIES:

TABLE-1:

a) QUERIES ON THE BID DOCUMENT

S.ne	. Clause	Tender Clause/Description	Outomy	D
	No.	Tonder Cladson Description	Query	Response
2, 1	Section 2	ITT 21.1 The Tenderer shall furnish a Tender security in the amount of ₹ 1.5 Crores (Rupees One Crore Fifty Lakhs only) in the in the form of Bank Guarantee/RTGS/DD/FIXED DEPOSIT from Nationalised Bank (India) in favour of ASSAM ELECTRICITY GRID CORPORATION LIMITED, AEGCL payable at Guwahati, Assam. The tender security in the form of Bank Guarantee or Fixed Deposit shall be valid for a period of 210 days from the last day of tender submission.	 As per Central Govt. and other electricity board, they are accepting tender with 'Bid Declaration' in lieu of Bid Security. Kindly accept. Bid Security can be in the name of any partner. Kindly clarify. Our request is to kindly accept all kind of Bid Security from all the Scheduled Bank- That are listed under Schedule-II of the Reserve Bank of India Act, 1934 instead of only nationalized bank. 	Clause 21.8 of the tender document
	Vol I		Query-1	As per Tender.
2	Section 3	Participation as an EPC contractor, must have successfully executed and commissioned at least 1(one) no. of GIS of 132kV or higher Voltage level on Turnkey Contract basis including Engineering, Design, Supply, Execution and Commissioning with minimum Five (5) Nos. of GIS bays for any State/Central Power utilities during last 7(seven) years reckoned from the original closing date of tender The tenderer shall submit the performance certificate of successful operation of the work mentioned above for at least 2 (two) years from the date of completion of the project. In case of JV, one of the partners shall meet the requirement as stated above either as single entity or manufacturer or lead partner in that JV.	Kindly provide relaxation in the evaluation criteria and please amend as under: Participation as an EPC contractor, must have successfully executed and commissioned at least 1(one) no. of GIS/AIS of 132kV or higher Voltage level on Turnkey Contract basis including Engineering, Design, Supply, Execution and Commissioning with minimum Five (5) Nos. of GIS bays for any State/Central Power utilities during last 10(ten) years reckoned from the original closing date of tender The tenderer shall submit the performance certificate of successful operation of the work mentioned above for at least 1 (one) year from the date of completion of the project. In case of JV, one of the partners shall meet the requirement as stated above either as single entity or	

Jan 1	Vol I Section 3		manufacturer or any partner / atleast one partner in that JV. Query -2 Participation as an OEM or their authorized channel partner/dealer/distributor. OEM shall be manufacturer of EHV GIS, Transformer, CRP with Numerical Relays, SAS, PLCC Equipments, 33kV Switchgear (GIS). In case bidder is an authorized channel partner/dealer/distributor, they can qualify subject to submission of past experience and financial criteria of OEM. In case OEM quote directly, then OEM shall have an associate who is registered with AEGCL/APDCL/APGCL with CMS Certificate and valid Electrical Contractor License from Assam 2.4.2(a) Must be complied with by the Tenderer. In case of a Joint Venture Tenderer, anv partner must meet the requirement in the key activity. For the above or other contracts executed during the period stipulated in 2.4.1, a minimum experience in the following key activities: a. Erection, pre-commissioning tests and commissioning of GIS equipment (132 kV or above voltage class) including Control and Relay panel, SAS and should have 1 year of successful operation within last ten (10) years period for any State/Central Power utilities. b. Laying, termination and commissioning of 132KV or higher voltage class underground XLPE cable of at least 1 (one) km during last ten (10) years in private/central/state Govt. undertaking power utilities	As per Tender.
4	Vol I Section 3	2.5 (a) Manufacturers/Subcontractor The proposed manufacturers or subcontractors by the tenderer for the following major items of plant and services must meet the minimum qualification criteria as mentioned below:	from the date of submission of tender	

		1- GISV. The Tenderer shall furnish performance guarantee for an amount of 20% of	For SI no.(V) - Subcontractor is not giving such long PBG of around 8 years. Kindly allow single PBG upto warranty period	As per Tender.
2		the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period. This performance guarantee shall be in addition to Contract Performance Guarantee to be submitted by the tenderer to cover the Contractor's extended defect liability in accordance with the provision in the SCC, pursuant to GCC Subclause 27.10. If the tenderer is not the manufacturer, the agreement between the tenderer and the GIS manufacturer containing the terms and conditions pertaining to this performance guarantee for 20% of the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period shall be submitted to AEGCL, 3 months prior to the expiry of the defect liability period.	You are requested to change validity of performance guarantee for GIS equipment till defect liability period	
, 5	Section 6	7. Personnel Requirements 5. Community Consultation Officer: Master of Social Work or similar suitable qualification with at least 8 years of experience in Stakeholder Consultations in Assam for linear infrastructure projects. Good understanding of social sensitivities of Assam and community structure and specialized consultation needs would be essential.	You are requested to please remove this clause	As per Tender.
\ 6		30.1 Except in cases of criminal negligence or willful misconduct, (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer, and (b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed a multiple of the Contract Price specified in the SCC or, if a multiple is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	You are requested to remove exception for limitation of liability	As per Tender.
7	Vol I Section 8	7.3 The Contractor agrees to supply spare parts for a period of years: Ten (10) Years. An undertaking to the effect that the spare parts shall be made available to AEGCL by the contractor for a period of ten (10) years should be furnished by the contractor. The undertaking shall be under ought by the contractor executed through Non-judicial stamp paper of Rs. 100/- or above to be notarized in India. The Contractor shall carry sufficient inventories to ensure an ex-stock supply	You are requested to kindly remove the clause of supply of spare parts for a period of years: 10 years	As per Tender.

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	of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within 6 months of placing the order. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with sufficient time to permit the Employer to procure the needed requirement. Following such termination, the Contractor will furnish to the extent possible and at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.		
Vol I Section 8	9.8 Environmental and Social risk mitigation (a) The contractor/subcontractor should adhere to the Environmental and Social Management Plan (ESMP). The payment is linked towards compliance to responsibility specified under the generic ESMP attached in Annexure-B. The overall responsibility for compliance of ESMP will stand with the Project Manager with support of Health and safety Specialist. The contractor have to comply with the project specific ESMP which is part of this tendering document (Volume III). (b) The Contractor shall take all reasonable steps to mitigate any and all environmental and social (both on and off the Site) risks associated with the Project to limit negative impact on Project-affected people (PAP) and property resulting from project-related activities. This includes measures to reduce Gender-based violence and Sexual exploitation (GBV/SE) risks. (c) The Contractor shall ensure that emissions, surface discharges, and effluent from the Contractor's activities shall not exceed the values stated in the Specification or prescribed by applicable Laws. (d) The Contractor shall develop and seek AEGCL and AIIB's approval of a Code of Conduct for Personnel to ensure that safe working practices are adopted on site by Contractors and Subcontractors, thereby reducing the risk of accidents and injuries so far as is reasonably practicable, either to themselves or to others. (e) The Contractor shall develop and seek AEGCL and AIIB's approval for the implementation of a multi-tiered Grievance Redress Mechanism (GRM) which will accept and seek to resolve any complaints brought by PAPs, Contractors of Subcontractors. The GRM operation shall be widely publicized in Project area, free to access and transparent.	ESMP.	As per Tender.
Voi I Section 3	13. Securities 13.3.1 The amount of performance security, as a percentage of the Contract Price for the Facility shall be: ten(10) percent of the contract price. 13.3.3 Extended guarantee for the GIS equipment shall be for five (5) years beyond the defect liability period of the contract. For GIS equipment the tenderer shall have to extend the Performance Security within one month prior to expiry of the Performance Security furnished for the main contract to cover	13.3.1 - As per Central Govt and other utilities, they are accepting PBG of 3% instead of 10%. Kindly accept. 13.3.3 - It is requested to waive off this clause	As per Tender.

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		the extended defect liability period plus two months as part of the contract performance to cover the Contractor's extended defect liability in accordance with the provision in the SCC, pursuant to GCC Subclause 27.10.		
10		Appendix 1:Terms and Procedures of Payment B. Progressive payments for supply items: 1. Within 60 (sixty) days from the date of submission of the invoice against supply, not more than 60% (sixty percent) payment of the total supply invoice value would be made, on receipt and acceptance of materials in full and good conditions (subject to availability of fund). However, GST amount on invoice would be paid 100% or as per Govt. Rules. 2. Remaining 40% (forty percent) retention amount of that item would be released subject to fulfillment of the following conditions — (a) 20% supply amount would be paid on completion of 50% of the total erection works of that particular item. (b) Next 10% of the supply amount of that supply item would be payable on completion of 100% of the total erection, testing, commissioning works of that particular item. (c) within 60 (sixty) days after receipt of invoice out of remaining 10% of the supply amount 5% would be paid upon issue of the Completion Certificate and balance 5% upon issue of the Operational Acceptance Certificate as per clause 25, 26 & 27 of GCC, which should be certified by the Project Authority	Query-1 You are requested to kindly change supply payment terms as follows: 10% against Advance, 80% against Receipt of Material, 10% against Completion Certificate Query-2 We request you to consider realization of last 20% payments for supply items to be released against submission of Equivalent Amount of Bank Guarantee valid till issuance of 'Operational Acceptance'.	As per Tender.
11	Vol I Section 9	Appendix 2: Price Adjustment Schedule No.: 2 (Plant and Equipment supplied from inside the Employer's Country) 1) Conductor 2) 132kV XLPE Cable and PVC/XLPE Insulated Power 3) Substation structures (Including Nut & bolts).	Pl include Station Transformer	As per Tender
	Vol II Chapter 9	9.4 Type Of Panel/Chapter 9 These panels shall be of the following approximate dimensions: i. Height: 2250mm + 15mm anti-vibration pad + 50 mm (base) ii. Depth: 800mm to 1000 mm iii. Width: 800 mm to 1000 mm iv. Operating Height: 1800 mm.	We propose Simplex Type Panel with Height: 2200mm + 15mm anti-vibration pad + 100 mm (base). However the total height of 2315 will remain same as per spec. Pls confirm	Accepted
13	Vol II Chapter 9	9.3 Type Test Reports./Chapter 9 Tests are conducted in KEMA/NABL accredited laboratory, for GOOSE messaging etc as per relevant IEC 61850 Standards.	We understand that type tests done in Accredited Labs outside India shall also be acceptable	Accepted only of the labs outside India are internationally accredited.
14	Vol II	9.13 Recording Meters	We understand that CRPs are to be supplied with ABT complaint trivector meters as specified in the Panel BOQ	In the scope of CRP manufacturer or energy meter

		Chapter 9	The ABT compliant trivector meters	of specification, any scope related to supply/installation/commissioning/integration of AMR/DCU/CDCS/MDAS is not envisaged in the scope of CRP supply, please confirm.	manufacturer
wellas		Vol II Chapter 9	9.13 Recording Meters Remote Readout Facility, Communication Capability iii. The meter shall be capable of data transmission to Gateway in IEC61850 protocol. It shall be responsibility of the tenderer to ensure that meters shall be compatible to the Gateways via MODBUS Protocol. It should have GPS time stamp facility.		Both IEC 61850 and MODBUS protocol are accepted provided the metering server shall have matching ports.
	16	Vol II Chapter Vol II Chapter 9	9.14.2 General Specification of Numerical Relays Relays shall have one no. front RJ45 or USB port (for RS 232 port Converter to USB shall be supplied for each substation along with spare) for Local Relay Parameterization and two nos. rear FO port/ Rear RS485 for connectivity to SAS over IEC61850 protocol	Our offered relays shall have 1 No. RS232/USB port on front for local relay parameterization & dual PRP compliant FO ports for connectivity to SAS. Rear RS485 port is not applicable for IEC61850 complaint relays.	Accepted
A SA	17	Vol II Chapter 9	9.14.2 General Specification of Numerical Relays Should have minimum 36 Binary Inputs and 32 Binary Outputs as per scheme requirement including 30% BI & BO spare.	proposed with suitable I/Os to meet the scheme requirement of 132 kV GIS bays	The numerical relays shall have sufficient BI/BO to meet all the scheme requirement including 30% spares.
₹		Vol II Chapter 9	9.14.2 General Specification of Numerical Relays The relays should have self-diagnostic features identifying area of fault or failure of a particular component or card.		The relays should have self-diagnostic features identifying area of fault or failure of a particular component or card. The relay should be capable of generating error report which could indicate the particular area of failure.

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19	Chapter 9	9.14.2 General Specification of Numerical Relays Disturbance records – The relay shall have capacity to store disturbance records of at least 10 sec. duration and sampling rate per cycle shall be more than 15.	We understand that sampling rate cycle for the numerical relays is normally 15 samples per cycle is acceptable to user, pls confirm.	Accepted
20	Vol II Chapter 9	9.14.2 General Specification of Numerical Relays The direction of power Flow shall be displayed		The direction of power Flow if displayed with numeric sign is acceptable and this feature is required for all relays and BCUs.
21	Vol II Chapter 9	9.14.2 General Specification of Numerical Relays Integrated Numerical Transformer Differential Protection as Main –I & Main-II	backup non directional protection functions, pls confirm if	impedance REF shall also be an
22	Vol II Chapter 9	9.14.4 Distance Protection Relay Have at least 36 no. of programmable binary input and 32 no. of programmable binary output contact		The numerical relays shall have sufficient BI/BO to meet all the scheme requirement including 30% spares.
23	Vol II Chapter 9	9.14.4 Distance Protection Relay Shall have df/dt functions.	We propose to offer Distance Protection Relay with inbuilt over/under frequency functionality, rate of change of frequency shall be offered as an inbuilt function of the Backup Directional Overcurrent/Earthfault Protection Relay in 132 kV Line Bay.	As per Tender.
24	Vol II Chapter 9	Auto-Reclose Function Auto-reclose function as in-built feature of bay controller unit (BCU) provided for sub-station automation is also acceptable.	We understand that Auto Reclose function as an inbuilt function of Distance Protection Relays is also acceptable, kindly confirm	Accepted
	Vol II Chapter 9	9.14.4 Distance Protection Relay Be suitable for single pole or three pole tripping. However, relays offered for 132 kV lines provided with mechanically ganged circuit breakers single pole tripping need not to be provided.	We understand that 132 kV Circuit Breakers envisaged in this project are of mechanical gang operated type, accordingly single phase tripping & single phase auto reclosing functionalities are required, kindly confirm.	As per Tender.

	26	Vol II Chapter 9	9.16 Bay Control Unit (BCU) The BCU shall have redundant power supply card i.e. in case of failure of one source/Card fail, the redundant shall pick up instantly. Power supply card failure shall generate necessary alarm to local SCADA.	We propose redundant supply source with auto-changeover outside the Relay /IED/BCU. In case of a power failure in one source, Relays/BCU shall get supply from other source through a auto change-over scheme. Any supply failure shall also generate necessary alarm to local SCADA, pls confirm.	Accepted
	27	Vol II Chapter 9	9.16 Bay Control Unit (BCU) The BCU shall have back up directional & non-directional back-up protection features in addition to Auto Reclose, LBB, and Synchronization function	Since the system is envisaged with standalone Bay Control Unit & Bay Protection Units, we propose to offer BCUs without protection functionalities like Back up Directional & Non-Directional protections, U/O Voltage Protections.	Not accepted. Shall be as per
	28 5	Vol II Chapter 9	9.14.4 Distance Protection Relay Shall have df/dt functions.	We propose to offer Distance Protection Relay with inbuilt over/under frequency functionality, rate of change of frequency shall be offered as an inbuilt function of the Backup Directional Overcurrent/Earthfault Protection Relay in 132 kV Line Bay.	As per Tender.
	²⁹	General		Provide Layout plan with clearly differentiating/mentioning the scope be retained and changed	As per Tender.
8	30	General		Tower Design will be provided by AEGCL or to be designed by contractor. Pl clarify	As per Tender
1	31	General	-	Pl provide approved vendor list	There is no approved vendor list of AEGCL
₹\	32	Price Schedule		Qty of following items are mentioned in lot: 1.Indoor & Outdoor Lighting are given in Lot. Please provide details of indoor & outdoor lighting. 2.Qty of termination kits, Straight through for 132kV XLPE Cable are given in Lot. Please Provide Deails 3. In Erection Schedule, Erection of Control Cable & LT Power Cable not mentioned whereas Qty is given in Supply Schedule	As per existing price schedule.