

MINUTES OF PREBID MEETING for the work "Design, Manufacturing, Testing and Supply of 220kV Emergency Restoration System Tower at Central Assam Region"

Minutes of Pre-Bid Meeting held on	O/o the MD, AEGCL, 1 st Floor, Bijulee Bhawan, Paltan Bazar, Guwahati-01 dated 20.02.2023
Funding Agency	AERC Fund
Name of the Work	"Design, Manufacturing, Testing and Supply of 220kV Emergency Restoration System Tower at Central Assam Region"
NIT No.	AEGCL/MD/Tech-1027/ERS/2022/33 Dated 06/02/2023

NAMES OF THOSE PRESENT:

I. FROM EMPLOYER:

1. CGM (O&M, CAR), AEGCL
2. GM (Non-EAP), AEGCL
3. GM (P&E), AEGCL
4. GM (M&PR), AEGCL
5. DGM(BD&T), AEGCL
6. DGM (P&D)-I and II, AEGCL
7. AGM (BD), AEGCL
8. AGM (P&D), AEGCL
9. SDO (LMSD), Kahilipara
10. AM, AEGCL

II. FROM PROSPECTIVE BIDDERS:

A. REPRESENTATIVE OF FOLLOWING BIDDERS WERE PRESENT IN THE PRE-TENDER MEETING:

1. M/S Madhav Engineers Pvt Ltd
2. M/S Advait Infratech Ltd
3. M/S SBB

OPENING REMARKS IN THE MEETING:

Sri Gunajit Kumar Bhuyan, CGM (O&M, CAR), AEGCL extended a warm welcome to all the prospective bidders and introduced his team. CGM (O&M, CAR), AEGCL explained the project's scope and requested the prospective bidders to table their queries. CGM (O&M, CAR), 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. CGM (O&M, CAR), AEGCL
2. GM (Non-EAP), AEGCL

[Handwritten signatures and initials]

3. GM (P&E), AEGCL
4. GM (M&PR), AEGCL
5. DGM(BD&T), AEGCL
6. AGM (BD), AEGCL
7. SDO (LMSD), Kahilipara

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

Shri ..

✓

Singh.

J

J

QUERIES:
TABLE-1:
Queries on the Bid document

Sl. No.	Clause No.	Tender Clause/Description	Query	AEGL's Response
1	2.4.2	The bidder must have supplied 132 KV (or above voltage class) of various equipments in different utilities of Power Sector under Operation for at least three years as of the date of Bid opening. The bidder should furnish a list of such works executed along with clients' performance certificates to Substantiate the requirement of this Clause.	ALL being a New and indigenous manufacturer, We request to amend this clause and make us eligible for us to bid as per GOI's "Make in India" and "Atmanirbhar Bharat" scheme	No Change
2	1.0 of Part III Material requirements	Mentioned clause states the requirement of Manta Ray Anchor and Section 7 (BOM) doesn't mention the same	Requesting you to kindly omit the requirement of Manta Ray Anchor as the usability of the same is not required as per the soil condition	Manta Ray Anchor assembly as required for each ERS tower must be supplied.
3	Section 7 (BOM)	Manta Ray Installation anchor Installation kit is mentioned in No 35	Requesting you kindly remove the Line item	No Change
4	5.9.1	It is mentioned to submit 10% PBG against the LOA	Requesting you to kindly reduce the same to 3%.	No Change
5		No Existing Clause	As per DP/IT circular Dated 30.9.2020, No. P-45021/2/2017-PP (BE-II), All the domestic tender with a valuation lesser than 200Cr. Only local vendors are eligible	As per tender, Technology used needs to be proven one through certification of performance. Also, DP/IT's order mentions the requirement for sufficiency in local capacity and local completion.
6	Section 3, Part-I, 3.0 Scope	[...] This shall generally comprise of all required material parts/items/equipment required for erecting 2 numbers of ERS towers to bypass fallen/damaged 220/132KV, double circuit transmission towers having twin ACSRA/AAC Moose conductor, [...]	Missing Information from the scope: A. Please clarify which type of tower configuration and the repartition for one set of 2 towers. We recommend one of the two scenarios below to be clearly stated in the scope: • 1 suspension tower and 1 Anchor/Dead-end tower • 2 suspension towers or 2 Anchor/Dead end towers	The bidder must supply two set of ERS tower which is suitable for both suspension and tension tower. The tension tower should have maximum angle of deviation.

Shankh...

va

Signature

Signature

Signature

			<p>B. Please specify the desired line angle for both suspension and Anchor towers. We suggest typical values like 0-20° for suspension towers and up to 60° for tension towers</p>	
7	Section 3, Part-1, 5.6-Design Improvements	The purchaser or supplier may propose changes in the specifications of the equipment/material or quantity. Thereof but limited to governing standard IEEE 1070 and its revision if any during the bid evaluation time	The purchaser or supplier may propose changes to the specifications of the equipment/material described in IEEE 1070 guide or its quantity, provided said material complies with 1070 test requirements and mast section are made with 6061-T6 aluminum	Confirmed
8	Section 3, Part-II, 1.10.9	A minimum of 30% additional spare hardware shall be supplied beyond the minimum required to build any of the ERS structures as specified.	Typo: Please clarify if 10% or 30% additional spares are required by this clause. We believe 10% is reasonable.	No Change
9	2.4.4 Point (ii) under note: Full type test certificate. (Validity of type tests shall be as per latest relevant CEA guidelines)	We had never come across any type test guideline as per CEA. If, you have any such guideline, please share.	Testing must be as per IEEE Testing clauses including welding of Structure.	Confirmed. Testing shall be as per IEEE Testing clauses including welding of Structure.
10	Clause-1.2 /subclause:1.2.1	All components must be fully exchangeable regardless whether they are used in suspension, angle or dead-end conditions. To ensure uniform compatibility of the ERS supplied under the contract all components of modular restoration structures shall be geometrically identical/mutually compatible.	<p>This is OK. But we need following information: Please clarify which type of tower configure on and the repair for one set of 2 towers. We recommend one of the two scenarios below to be clearly stated in the scope: □ 1 Suspension Tower AND 1 Anchor/Dead-end Tower □ 2 Suspension Towers OR 2 Anchor/Dead-end Towers</p>	The bidder must supply two set of ERS tower which is suitable for both suspension and tension tower. The tension tower should have maximum angle of deviation.

Shruti ✓ *Shruti* ✓ *Shruti* ✓ *Shruti* ✓

			<p>B. Please specify the desired line angles for both Suspension and Anchor towers. We suggest typical values like 0-20° for suspension towers and up to 60° for tension towers.</p>	
11	<p>Clause-1.2 / sub-clause 1.2.2 (j)</p>	<p>The cross-section dimension of 6.4 mtrs with other column heights of 4.27 mtrs (14ft) & 2.13 mtrs (7ft) height long ERS column section should be 890 X 890 mm fitted with specified numbers of lattice members as per IEEE std. 1070-2006 with latest update. The fabrication process should comply with the permitted tolerances stipulate in IEEE std. 1070-2006 with latest update.</p>	<p>Your point 1.2.2 (j) contradicts your point 1.2.1 (b) i.e., 2.a & 2.b contradicts each other. We request you to maintain uniform length and cross section for all column. Kindly no need of mentioning length of column.</p>	<p>Confirmed. However, the bidder must ensure that test carried out conforms to IEEE standard.</p>
12	<p>Part II: Technical Requirement</p>	<p>You have asked for dimension of ERS STRUCTURE.</p>	<p>Kindly remove all dimension & design / dimension requirement as this is specific to one bidder. If AEGCL gives dimension, we cannot participate in the bid as this belongs to a specific bidder. Dimension and Design Improvement is manufacturer's rights. Only Testing as per IEEE 1070-2006 is accepted as all Power utilities in India following only testing guideline.</p>	<p>Confirmed. However, the bidder must ensure that test carried out conforms to IEEE standard.</p>
13	<p><u>Clause 1.2, sub clause: 1.2.2(b)</u></p>	<p>Weight of structural element has been asked as 275 KG</p>	<p>We request you to kindly mention uniform size of structure material & weight not more than 150 KG.</p>	<p>Confirmed. However, the bidder must ensure that test carried out conforms to IEEE standard.</p>
14		<p>above voltage class) various equipment's in different utilities of Power Sector under operation for at least three years as on the date of Bid opening. The bidder should furnish a list of such works executed along with clients' performance certificates to substantiate the requirement of this Clause.</p>	<p>As you have asked for 220 KV systems, request you to kindly mention 220 KV & Above.</p>	<p>No Change</p>

Shrik...
ra
Sanjani
A
A

15	1.8.4 Thirty percent (30%) additional spare guy wire and fifty percent (50%) additional compatible helical preformed grips and guy wire thimbles shall be supplied beyond the minimum required to build any of the ERS Structures.	Kindly fix BOQ with correct quantity/ units to remove any ambiguity of design error / over design/under design.	No Change
16	Type test Reports: The bidder shall furnish type test reports. The type tests must have been conducted on the material offered as per IEEE Std. 1070-2006 in recognized laboratory as per the latest revision of the relevant standards applicable and technical specification. The date of type test shall not be later than 10 years as on the date of bid opening. If any change in design was made latest type tests shall be furnished along with approved drawing. The bids received without type test reports will be treated as non-responsive.	Please note there is NO TYPE test word as per IEEE. This is routine test applicable to all manufacturing ERS. We suggest OEM must have in-house Testing Facilities for doing all tests as per IEEE Guideline and all tower sections can be tested on sample basis before dispatch. OEM must have automatic welding machine/robotic welding to avoid any process defect / welding defects. Welding process must not be manual for such fabrication to avoid poor quality of welding and reduce time of manufacturing.	Bidder shall furnish Test report as per IEEE guideline tested in any NABL accredited laboratory or internationally accepted renowned laboratory.
17	Find some point below for necessary changes	<p>Kindly remove all of them.</p> <p>Following Dimensions should be remove (Part I, II or any place in the bidding document) for allowing latest design which is more light weight & user friendly than earlier one. More over more manufacturer follow latest design developed by SBB.</p> <p>j. The cross-section dimension of 6.4 mtrs with other column heights of 4.27 mtrs(14ft) & 2.13 mtrs (7ft) height long ERS column section should be 890 X 890 mm fitted with specified numbers of lattice members as per IEEE std. 1070-2006 with latest update. The fabrication process should comply with the permitted tolerances stipulate in IEEE std. 1070-2006 with latest update.</p>	Confirmed. However, the bidder must ensure that test carried out conforms to IEEE standard.







	<p>k) The dimension of the base plate of the ERS foundation plate should be of 1525 X 1575mm with specified number of holes for inserting the foundation stakes as per IEEE std. 1070-2006. The fabrication process should comply with the permitted tolerances stipulate in IEEE std. 1070-2006 with latest update.</p> <p>l) The dimension of the ERS box section should be of 890 X 890mm with specific size and number of holes to fit post insulators as per IEEE std. 1070-2006. The fabrication process should comply with the permitted tolerances stipulate in IEEE std. 1070-2006 with latest update. The above requirements shall also be in accordance with IEEE std. 1070-2006 latest update, without exception.</p> <p>1.2.3 The structures, polymer insulators and hardware components shall be suitable for restoration of 220 KV / 132 KV lines both Single circuit & Double circuit lines as mentioned above.</p> <p>1.3 Foundation Plate Foundation plate shall be designed to rest on the ground surface with metal stakes to avoid sliding and shall be made from Aluminium with dimensions of 1525 X 1575 mm with specified number of holes for inserting the foundation stakes as per IEEE std. 1070-2006. The fabrication process should comply with the permitted tolerances stipulate in IEEE std. 1070-2006 with latest update.</p> <p>1.4 Gimbal Joint The Gimbal joint shall be of such design that it can be fixed on the foundation plate. It shall allow assembly of structures over itself. It shall allow leaning and rotation allowing assembled column to be rotated from the horizontal plane to the vertical</p>	
--	--	--

Shankar
W
Srinivas
S
S

18	Price bid	<p>position. It shall minimize column eccentricity and eliminate torsional loading on structures due to its rotational capability. It shall be made of light weight, high strength material. It shall be designed as per figure 3, "Ginbal design and Tolerance" of IEEE-1070=2006</p> <p>1.5 Guy Plate The design of Guy plate shall be such that it shall allow attachment of insulators and guy wires to the structure. It shall be assembled between two column structures and have predetermined holes to allow attachment of insulators and guy wires. The angle of guy plates shall be 0/45 or 45/45. It shall be made of structural aluminium and shall be designed as per figure 2, "Guy Plate Design and Tolerance" of IEEE-1070-2006</p> <p>1.6 Box Section/Connecting Box (Not required in present / new technologies) Box section shall be of such design that it allows attachment/mounting of post insulators and guy wires to the structure. It shall be assembled between column structures and shall have predetermined holes on sides to allow attachment of insulators and guy wires. It shall be made of light structural aluminium with dimensions of 890 X 890mm with specific size and number of holes to fit post insulators as per IEEE std. 1070-2006. The fabrication process should comply with the permitted tolerances stipulate in IEEE std. 1070-2006 with latest update.</p> <p>We are still checking tender documents and would submit if notice any point which can derail the tendering process.</p> <p>Price bid does not have space for price component of software. This should be asked separately as GST will be separate and license to be renewed each year.</p>	No Change
----	-----------	---	-----------

Shankh *W* *Shankh* *J* *J*

19	Software You have asked for 2 licenses	One License is sufficient as this is operated on line with password.	As per tender. However, the software registration will be in the name of AEGCL. Supply of software should be of free of cost.
20	Additional Clause	Demonstration	The successful bidder must ensure:- a) One demo after supply as per bid terms and condition. No payment shall be processed without the successful demonstration. b) Second demo will be given within warranty or post warranty in live condition. Bidder must give an undertaking to depute the trainer within 72 Hrs. of intimation by AEGCL, such demonstration including the cost of travel etc. incurred by the firm shall be free of cost to AEGCL.

Shankar . . .


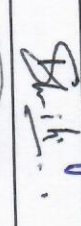







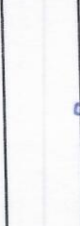




Attendance Sheet

Pre-bid meeting on 20.02.2023 for "Design, Manufacturing, Testing and Supply of 220kV Emergency Restoration System Tower at Central Assam Region"

Venue- Conference Hall, AEGCL HQ

Sl No	Name	Designation and Organization	Signature	E-Mail	Phone Number
1	G. K. Boruah	CGM (Civil) AER			8811058114
2	D. L. Hazarika	AGM (BD)		dlhazika2006hazarika@gmail.com	970642072
3	Srikant Sathpathy	General Manager		srikant.sathpathy@gmail.com	95564570069
4	Dipanku Goswami	AGM (P&D)		dipankugoswami@yahoo.co.in	9864634467
5	Jayashree Das	GM (M&PR)		jayashreedas1973@gmail.com	9854076553
6	Ankur Pratih Das	DGM (P&D)		ankurdas12-345@hotmail.com	7002869350
7	Nalay Seneker Xelak	DGM (P&D)			
8	Subhojit Paul	BDH (Admit)		subhojitpaul@admit.tntsa.com	9870017398
9	Prasanta Gopa	AM, AEGCL		prasantagopa1970@gmail.com	9866126702
10	Himangshu Raji Das	DGM (P&D)		himangshuraj@gmail.com	8638029189
11					
12					
13					
14					