



CORRIGENDUM-3

The following corrigendum is here by issued in regards to the Tender No.: - GRIDCO/RE NODAL AGENCY/ E-TENDER/04/2023-24. Dated 11.03.2024 floated by GRIDCO Ltd. for “DESIGN, FABRICATION, SUPPLY, TRANSPORTATION, CIVIL WORKS, INSTALLATION AND COMMISSIONING INCLUDING 12 MONTHS OPERATION & MAINTENANCE OF 120/150 MTR. TALL LATTICE MASTS (WRA) ALONG WITH ALLIED WIND DATA MEASURING INSTRUMENTS.”

Ref No.: GRIDCO/RE-NA/2024/111-236

Date: 26.04.2024

The following modifications/additions are hereby incorporated to E-Tender Notice No. GRIDCO/RE NODAL AGENCY/ ETENDER/04/2023-24.

Sl. No.	Original Clause	Original Clause Description	Amended Clause Description
1	Page no 20 point no 19.1 & Page no 121. Appendix-I	Mentioned The bidder shall submit the bid in Electronic Mode only i.e., with tender website www.tenderwizard.com/GRIDCO . The bidder must ensure that the bids are received in the specified tender website of GRIDCO by the date and time indicated in the Tender notice. Bids submitted by telex/telegram will not be accepted. No request to submit the Bids in physical form will be entertained by GRIDCO	Bidder's are required to submit their bids both in hard copy as well as soft copy. Evaluation shall be made based on the documents submitted in e-tender portal. However Hard copy must be dispatched on the same day through courier/ speed post.
2	Page no 44 point no 5.2.4	The make and models of the instruments (Wind Speed, Wind Direction, Temperature, Pressure and Data acquisition etc.) shall be acceptable to/ approved by, National Institute of Wind Energy (NIWE), Chennai. The calibration certificates of the instruments shall be submitted.	"The make and models of the instruments (Wind Speed, Wind Direction, Temperature, Pressure and Data acquisition etc.) shall be of the industry standard and should meet the technical specifications as given in Section X . Valid calibration certificates for all the instruments issued by ISO/IEC 17025 accredited lab / MEASNET Calibrated ,shall be submitted".

3	Page 44 point no 5.2.6/7/8	The Security for the masts and insurance coverage will be arranged by bidder	<p>1. In the case of a Turnkey supply, the mast belongs to GRIDCO, and insurance shall be in the name of GRIDCO. However the O&M is carried out by the bidder for 12 months, the responsibility of claim coordination & settlement with the insurance company if any, rests with the bidder.</p> <p>2. In the case of the rental model, the insurance shall be taken in the name of the Bidder, the claim coordination & settlement rests with the bidder.</p> <p>3. Watch and ward are mandatory, and the bidder needs to comply with the tender requirement, for both Sl. No. 1 & 2 above.</p>
4	Page no 58 :	Payments Terms.	<p>We can accept the following payment terms</p> <p>1. 40% upon material getting delivered at the site subject to production of Dispatch Instruction (DI), Lorrey/ Rail Receipt, Challan, Packing List, Shipment details and e-Way Bill of Contractor along with detail Tax Invoice for the 40% of the basic price (Taxable Value) including CGST+OGST/IGST as the case may be.</p> <p>2. Contractors shall raise Tax invoice for the 14% of the basic price (Taxable Value) along with CGST+OGST/IGST as the case may be on 14% of the basic price (Taxable Value) post commissioning subject to certification of NIWE & GRIDCO, within 30 days</p> <p>3. Contractors shall raise Tax invoice for the 36% of the basic price (Taxable Value) along with CGST+OGST/IGST as the case may be on 36% of the basic price (Taxable Value) of the contract during the data collection period, considering 9% against each quarter subject to quarterly data validation by GRIDCO & NIWE. The last quarter payment will be done after signing of Handing over & Taken Over Certificate.</p> <p>4. 10% of the basic price of contract along with CGST+OGST/IGST on completion of Warranty period. However, same amount can be released after submission of BG of equivalent amount for support period.</p> <p>Besides above, any other documents as required by Engineer-in-Charge of GRIDCO.</p>

5	Page no 69. Point no 18.2	The bidder shall arrange one WorkStation at Bhubaneswar at its own cost for data monitoring, processing and viewing?	<ol style="list-style-type: none"> 1. Bidder need to provide WorkStation i.e. Computer with high-end processor and server arrangement at Bhubaneswar. GRIDCO will provide space for the work station. 2. Specification of Computer with high-end processor: RAM – 16GB or above, HDD – 1 TB SSD or above, Base Processor Speed – 2.4 GHz and Above, Processor Make- Intel, Processor Generation- 10th Generation or above, Processor Description- i7 or above, Number of Cores per Processor - 4 or above, Onsite OEM Warranty – 5 Years, Operating System(Factory Pre-Loaded) - Windows 10 Professional 64 bit or above, Cabinet Form Factor- SFF, Total SSD Capacity – 1 TB SSD or above and Monitor Size (INCHES) – 24” or above. 3. With sufficient storage to store data of all 6 WRAs for a period of 12 months. 4. Data transmission ,monitoring, processing, viewing, security etc. shall be in the scope of Bidder.
6	Page no 99 point no 3	The design of the tower including booms with its joint at tower face and the foundation, should be complete in all aspect and to be certified by IIT, Chennai or CSIR-Structural Engineering Research Centre, Govt. of India.	The design of the tower including booms with its joint at tower face and the foundation, should be complete in all aspect and to be certified by IITs,NITs having adequate infrastrucure or CSIR-Structural Engineering Research Centre, Govt. of India which will ensure the structural stability, safety and conforming the IS875, Part 3, Wind Load acting on structures requirements.
7	page no 100 point no I	The design, fabrication, includes supply & transportation, civil foundation works, erection and commissioning of 120 Meter or 150 Meter lattice mastsThe mast needs to be made up to 120 m or 150m height using multiple segments of square cross section. The tower width should not be more than 400x400mm for 120 meter and 450x450 mm for 150-meter lattice masts. The design of the structural sections of the mast should confirm to IS 800-2007 specification.	The mast needs to be made up to 120 m or 150m height using multiple segments of square cross section. The tower width should <u>not be less than</u> 400x400mm for 120 meter and 450x450 mm for 150-meter lattice masts. The design of the structural sections of the mast should confirm to IS 800-2007 specification.

8	page no 100 point no II	Provision of ladder on the tower	<p>Suitable and convenient size accessories are welded as ladder (8 mm round rods) to carry out O&M operation at a later stage. The distance between each step of the ladder would be 150-175 mm (6 to 7inches).</p> <p>The mast Shall be fitted with a ladder rigid fall arrest safety climbing continuous rail with the provision of steps for climbing safely. The bidder shall provide two sets of safety belts with all necessary accessories and climbing rail .</p>
9	page no 101 point no VI	Corrosion Protection Requirements	<p>The mast shall be protected against corrosion corresponding to class IM2, Atmospheric Corrosion Category C5-M, according to ISO 12944-2. Passive Corrosion protection system i.e; coatings on tower, guy wire, foundation shall be implemented for meeting the corrosion requirements at the site. Special coatings like dense epoxy and dense polyurethane coatings to be applied . The choice of materials, coating thickness, workmanship, testing etc. shall comply with ISO 12944 or an equivalent standard. Guywire protection shall be done with suitable grease.</p> <p>We suggest to increase the galvanise coat thickness from standard 85 micrones to 110 micrones and give a coat of aircraft waring epoxy paint . This way the life of the tower will multiply many times</p>
10	Page no 106	ANEMOMETER SENSOR with Measnet calibration	0.3 m/s
11	Page no 107	Wind Vane Sensor point no 4 & 5 Mismatched?	<p>4). Starting wind speed(Threshold)< 1 m/s at 10° amplitudes according to ASTM-Standards D5366-96</p> <p>< 0.4 m/s at 90° amplitude according to VDI-Standard 3786 Part 2</p> <p>5). Input Voltage range9v to 12v DC</p>
12	Section IV Page-39	Eligibility Criteria	<p>The bidder can be a single bidder or a consortium of bidders. In case of consortium, the lead bidder shall be a company registered under the companies act/incorpoated as trust & societies created either by any state government or Government of India.</p>

13	Page no 44 point no 5.2.4	The make and models of the instruments (Wind Speed, Wind Direction, Temperature, Pressure and Data acquisition etc.) shall be acceptable to/ approved by, National Institute of Wind Energy (NIWE), Chennai. The calibration certificates of the instruments shall be submitted.	The make and models of the instruments (Wind Speed, Wind Direction, Temperature, Pressure and Data acquisition etc.) shall be of the industry standard and should meet the technical specifications as given in Section X . Valid calibration certificates for all the instruments issued by ISO/IEC 17025 accredited lab shall be submitted".
14	Page no 45 point no 12	Data collection and data sharing (online and onsite). The data availability shall be 95% and above.D18	95% is mandatory and sufficient spares to be made available at respective site.
15	Page 45 point 13	Data verification, Quality checks and analyse the wind data with NIWE as per guideline of MNRE.	As per MNRE guidelines the data need to be verified with NIWE. Payment to NIWE for data verification shall be in the scope of GRIDCO.
16	Clause No.- Section X, Page - 99	Mast Material - The mast materials should be galvanized mild steel and should confirm to IS 277:2003. Foundation bolts and other hardware has to be hot dip / spray galvanized and should confirm to IS 2629-1985. The mast segments have to be factory painted orange and white as per aviation rules Raw material shall confirm to IS:2062-2011 and shall be hot dip galvanized as per IS:2629-1985	The mast materials should be mild steel (as per IS:2062-2011) and should be hot dip galvanised as per IS:2629-1985. Foundation bolts and other hardware have to be hot dip / spray galvanized and should confirm to IS 2629-1985. The mast segments have to be factory painted orange and white as per aviation rules. GRIDCO logo to be painted at each 20 meter for ease of identification & prominency .
17	Clause No.- Section X, Page - 108 , Annexure B - 2	Sensor Range - 50 C to + 600 C	Sensor Range - 50 °C to + 60 °C
18	Last date of Submission bid	Last date for submission of bid- 29.04.2024, 1:00 PM The due date & time of opening of techno-commercial bid- 29.04.2024, 5.00 PM	Last date for submission of bid- 10.05.2024, 1:00 PM The due date & time of opening of techno-commercial bid-10.05.2024, 5.00 PM

Note: The above revised clause will supersede the any related clause of the tender document.

Sd/-
Chief Project Manager
RE Nodal Agency, GRIDCO Ltd