



MePGCL
Generating Clean And Green Energy

MEGHALAYA POWER GENERATION CORPORATION LIMITED
OFFICE OF THE CHIEF ENGINEER (GENERATION),
LUMJINGSHAI, SHORT ROUND ROAD,
MePGCL, SHILLONG.

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No: MePGCL/CE:GEN/T-133(Pt-III)/2022-23/2

Dated: 23th May, 2022

To

M/s Andritz Hydro Private Limited,
D-17, MPAKVN, Industrial Area, District Raisen, Near Bhopal – 462 046,
Mandideep, Madhya Pradesh, India.
Email: neelav.de@andritz.com

Sub: Rehabilitation of Electro Mechanical Equipment (Package-1) for Renovation and Modernization of Umiam-Umtru Stage-III Hydroelectric Power Station of Bid Queries Replies –Reg

Ref: Your email dated 19th May, 2022

Sir,

With reference to the above, please find enclosed herewith the Replies to the Bid Queries of Electro Mechanical Equipment (Package-1) in Annexure-I for Renovation and Modernization of Umiam-Umtru Stage-III Hydroelectric Power Station for your information and necessary action.

Encl: As stated

Yours Faithfully

(M.Marbanjang)
Chief Engineer (Generation)
MePGCL, Shillong

Memo No: MePGCL/CE:GEN/T-133(Pt-III)/2022-23/ (a)

Dated: 23th May, 2022

Copy to:

1. P.S. to the Chairman-cum-Managing Director, MeECL, for kind information of the CMD.
2. The Director(Generation)/(Transmission)/(Distribution)/ Finance/MePGCL/MePTCL/MePDCL/MeECL for kind information.
3. The Chief Engineer (C) HP&HC MePGCL Shillong for information.
4. The Executive Engineer (MIS), MeECL, Shillong with a request to upload the documents in www.meecl.nic.in websites. A soft copy of the same is attached herewith.
5. The Superintending Engineer, Generation Circle - I, MePGCL, Umiam for information.
6. The Chief Representative, Japan International, Cooperative Agency, JICA INDIA OFFICE, 16th Floor, Hindustan Times House, 18-20, Kasturba Gandhi Marg, New Delhi-110 001, for information.
7. M/s Rodic Consultants Pvt. Ltd. 1, Jai Singh Marg (First Floor), YMCA Cultural Centre Building, New Delhi – 110001 (INDIA) for information and necessary action.
8. Shri. L.Shilla, Project Manager, M/s Rodic Consultant Pvt Ltd, Shillong as discussed in my office.

Chief Engineer (Generation)

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BID QUERIES (Additional Queries)

Sl. No.	Volume/ Section Chapter/ Clause	Page	Heading	Bid Queries	MePGCL Reply
1.	Vol II / Section VI/ Employer's Requirements / List of Major Equipment's /2.8 (J)	8	Outdoor Switchyard / Two-stage lift system	<p>We don't recommend the installation of a lift in the scope of the E & M contractor. Because of site conditions having hard rocks/mountains and also having 132 KV tower in between the switchyard and powerhouse.</p> <p>Installation of a two-stage lift system can be carried out only after evaluating site and construction considerations by expert civil consultants. In absence of any feasibility report, installation work of two stage lift is not possible .</p> <p>This is being a critical installation that must have clear scope having capacity/loads requirement which needs to be handled by the specialized Civil wing of MePGCL.</p> <p>Therefore, requesting you, to delete this requirement from the existing R&M tender of E & M works.</p>	Please refer Addendum 2

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BID QUERIES (Additional Queries)

2.	Vol II / Section VI/ Employer's Requirements / List of Major Equipment's /1.1 (h)	4	Water lubricated bearing with suitable material for the bearing pads, such as Thordon SXL or equivalent	<p>Based on our vast experience in supply of E-M equipment of hydro power plants we propose oil lubricated bearing in place of water lubricated bearing/Thordon type bearing because turbine with water lubricated bearing has issue of high noise, performance and vibrations. After 6000-8000 hours of operation gap between bearing interface surface reduces , this is mainly due to material properties of composite material . Then over period of time this noise and vibration from power unit will decrease. To avoid this issue in Umiam Stage III we are proposing oil lubricated bearing. Further in implementation of the water lubricated bearing system in existing unit is always having a challenge due to existing civil layout , interfaces with existing turbine auxiliaries and dismantling/assembly challenges of power unit during maintenance.</p> <p>Therefore, we recommend oil lubricated turbine bearing and shaft seal in place of water lubricated, please confirm the same.</p>	Please refer Addendum 2
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BID QUERIES (Additional Queries)

3.	Vol I		Implementation Schedule 40 months	<p>We understand that both the machines are identical, please confirm. As per the tender requirements reverse engineering needs to be carried out by the successful contractor, please note that after the finalization of the contract anyone of the two machines will be handed over to the contractor in dewatered condition for reverse engineering. The duration of shut down will be finalized at the time of contract finalization.</p> <p>Please note that the service bay is having limited space for work therefore units will be handed over to the contractor in dewatered condition during contract execution as and when required for the successful execution of the contract in 40 months , detailed bar chart will be enclosed with the bid .</p> <p>Any work related to dewatering of machine including sealing of intake gate etc. shall be the responsibility of MePGCL.</p>	<p>MePGCL will close the intake gate of the tunnel. However if there is any leakage, it will be the responsibility of the Bidder to dewater the same.</p>
4.	Vol I/Appendix I	92	Terms & Procedure for payment	<p>We request that all the payments except advance shall be made through an irrevocable, divisible, operable, and acceptable sight letter of credit.</p> <p>The purchaser shall open the letter of credit within 60 days from the date of signing of the contract or placement of PO whichever is earlier.</p>	The term of the Bid document stand.

ANNEXURE -I

2x30 MW Renovation and Modernization of Umiam-Umtru Stage III Hydroelectric Power Station of M/s MePGCL-

BID QUERIES (Additional Queries)

5.	Vol I/Section IX/Appendix 8/3.2(1)	107	Functional Guarantee: Quantity of water in Cumecs per unit of production / generation in MWh	We found discrepancy under this statement as quantity of water is measured in m3 (Volume) instead of Cumecs (Flow). Please confirm .	Yes quantity of water is measured in m3 (Volume)
6.	Vol II , Section-IV, Employer's Requirement, Clause 2.8		Outdoor Switchyard	We understand that 132kV SF6 CB (09 nos.) existing shall be used. Kindly confirm.	Yes
7.	Vol II , Section-IV, Employer's Requirement, Clause 2.10		Other parts, devices and their accessories	We understand that all the MV (11kV) and LV (Power cables) shall be XLPE type, Aluminium conductor. Please confirm.	Yes
8.			General	We understand that clean access road to 132kV Switchyard/Valve house shall be made available by MePGCL. Kindly confirm.	Yes
9.			General	All kind of civil works (major & minor) are excluded from bidder's scope. Please confirm.	As per Bid Document. Please refer Para 2 of Page 3 of Section VI volume II of II

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BID QUERIES (Additional Queries)

10.			General	<p>We understand that following are the scope included in the bidder's scope for grounding system:</p> <ul style="list-style-type: none">a) Measurement of overall earth resistanceb) Earthing pits to be prepared to achieve overall earth resistance 1.00hm (in case the resistance of the existing earthing system is higher)c) MS Strips / flats for equipment earthing (for new supplied items only). <p>Kindly confirm</p>	Yes
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