



**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/ 7

Dated: 10<sup>th</sup> June, 2022

To

✓  
M/s Voith Hydro Pvt Ltd  
A-20 & 21, Sector 59, Noida,  
Dist. Gautam Budh Nagar (UP)  
Phone + 91-120-407 9242  
Email: [Vikas.Mohan@voith.com](mailto:Vikas.Mohan@voith.com)  
[C.Bholowalia@voith.com](mailto:C.Bholowalia@voith.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 09.06. 2022

Sir,

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

Encl: As stated

Yours Faithfully

(M.Marbaniang)  
Chief Engineer (Generation)  
MePGCL, Shillong  
Dated: 10<sup>th</sup> June, 2022

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

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](http://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)

Reply to Bid Query by Voith Hydro dated 9.6.2022

Sl. No.	Clause ref.	Clause	Bidder's Query	M&P GCL Reply
1	Section III i.2.2 (c) Page 15	(c) <b>Functional Guarantees of the Plant and Installation Services</b> For the purposes of evaluation, for each percentage point that the functional guarantee of the proposed Plant and Installation Services is below the norm specified in the Specification and in the above table, but above the minimum acceptable levels also specified therein, an adjustment of 3 Crores (Three Crores) INR will be added to the Bid Price. If the drop below the norm or the excess above the minimum acceptable levels is less than one percent, the adjustment will be prorated accordingly	Please clarify from the below provided examples, which method of efficiency evaluation will be considered. Typical Example A Typical Example B- When B bidder offers efficiency higher than specified upper limits. Typical Example C- When B bidder offers efficiency higher than specified upper limits. (Upper limit specified for Turbine as 93%, for Generator as 98%, for Transformer as 99.5%)	The Bid Evaluation will be as per Bid Document

Chief Engineer (Generation)  
Magdajaya Power Generation Corporation Limited  
Shillong

Sl. No.	Clause ref.	Amended Clause	M&P GCL Replies Dated 25.05.2022	Bidder's Query	M&P GCL Latest Reply	Voith Query - 09-June-2022	M&P GCL Reply
1	Volume II / SECTION VI / S.2. Turbines and their Auxiliaries	The contractor is required to conduct the hydraulic study of the existing parameters and Power House cutouts and offer maximum output (with at least 10% overload), at rated head and above with available discharge. The bidder should offer with maximum output matching to existing structure. Each turbine shall be capable of delivering a guaranteed output of not less than 33.00 MW at the generator terminal when operated at a designed head and at rated speed of 428.6 rpm.	Please note that 33MW is the rated load at generator terminal and 10% COL is not included in it.	We would like to mention that the bidder needs to design the new uprated machine keeping existing main parameters like head, discharge, speed, GDD2 and respect the dimensions of the old cutout and existing waterways being an old powerhouse. We have carried out a detailed hydraulic study keeping existing parameters same and confirming that each turbine shall be capable of delivering a guaranteed output of not less than 33 MW (including 10% COL condition) at the generator terminal when operated at a rated head (150 m) and at the rated speed of 428.6 RPM. From this, we can conclude that the existing unit output shall be uprated from 30 MW to 33 MW. Further increase in output can't be feasible under existing site conditions/parameters which will develop major abnormalities and risks to the power plant. Please accept and confirm.	Yes	Based on the series of query/ response, we have following understanding- Based on the hydraulic application keeping existing boundaries, maximum output beyond 33MW corresponding to rated net head is not feasible, considering this - kindly clarify below queries. 1. Rated output of 30MW corresponding to rated net head of 150m (with the tender specified rated discharge-23.4 m3/s -per unit, (may vary -- as per new design)) is required at generator terminal. Please confirm. 2. Maximum power/ 33MW (10%COL) is required at generator at rated net head and corresponding discharge availability shall be ~25 m3/s i.e higher discharge than.. Please confirm.	Please note that the existing unit uprated from, 30 MW to 33 MW.

Voith Query		MePGCL Reply		
<p>2 We request that for 2.4.2 (a) instead of three similar contracts, kindly accept <b>one</b> similar contract requirement. This is the general acceptable norms used in hydro projects in India from various central and state govt utilities.</p>		<p>No change in Bidding Document will be entertained.</p>		
<p>3 We understand that in case Prime contractor (EM contractor) satisfy requirement 2.4.2 (a) specific experience then the requirement as specified in 2.4.2 (b) will not be applicable. 2.4.2 (b) is only applicable in case EM company participate in a role of specialist subcontractor. Please confirm above understanding.</p>		<p>As per Bid Document and as per JICA Guidelines</p>		
<p><b>Additional Queries</b></p>				
Sl No	Volume	Query	MePGCL Reply	Further Query
1	<p>Volume I of II Clause 1.2.2 (b) Page 14</p>	<p>As O&amp;M services is not part of scope of this tender and therefore the requested costs in the table provided in clause is cannot provided. Further, overhauling requirement of power plant is totally depended on the O&amp;M procedures to be followed by customers</p>	<p>Will be intimated in due course of time</p>	<p>We understand that Operation and Maintenance cost shall not be considered during Bid evaluation. Kindly confirm this.</p>
				<p>Please refer the letter from this office <b>No MePGCL/T-133(Pt-II)/2021-22/31 Dated 4<sup>th</sup> March 2022</b> whereby it is informed that the Operation and Maintenance cost is not part of this Project, such cost will not be added to the Price Bid for Evaluation and the Bidder may leave the Table Blank.</p>

Reply to Bid Query by Voith Hydro dated 9.6.2022

Sl. No.	Clause ref.	Clause	Bidder's Query	MePGCL Reply
1	Section III i.2.2 (c) Page 15	<p><b>(c) Functional Guarantees of the Plant and Installation Services</b></p> <p>For the purposes of evaluation, for each percentage point that the functional guarantee of the proposed Plant and Installation Services is below the norm specified in the Specification and in the above table, but above the minimum acceptable levels also specified therein, an adjustment of 3 Crores (Three Crores) INR will be added to the Bid Price. If the drop below the norm or the excess above the minimum acceptable levels is less than one percent, the adjustment will be prorated accordingly</p>	<p>Please clarify from the below provided examples, which method of efficiency evaluation will be considered.</p> <p><b>Typical Example A</b></p> <p>Typical Example B- When B bidder offers efficiency higher than specified upper limits.</p> <p>Typical Example C- When B bidder offers efficiency higher than specified upper limits. (Upper limit specified for Turbine as 93%, for Generator as 98%, for Transformer as 99.5%)</p>	<p>The Bid Evaluation will be as per Bid Document</p>

  
 Chief Engineer (Generation)  
 Meghalaya Power Generation Corporation Limited  
 Shillong