

## **MINUTES OF PRE-BID MEETING**

Date of Pre - Bid Meeting - 24.06-2022 at 11:00 Hrs.

Venue: Office of General Manager (Engineering) at Jawahar Tower Building, Haldia Township, Purba Medinipur, 721607

Members present –

### **HDC, SMPK**

1. Sri A. Ganesan, General Manager (Engg.)
2. Sri P. Dasgupta, Consultant (Project)
3. Sri Kamalesh Giri, Dy. Manager (I&CF)
4. Sri C. Kandar, Dy. Manager (P&E)
5. Sri S. Barua, Asst. Manager (I&CF)
6. Sri S. Roshan, Asst. Manager (P&E)

### **Bidders**

1. Mr. Balaji Jayaraman, for Eco Protection engineers Pvt Ltd., Chennai (Physically present).
2. Mr. G. Paul & Mr. A.K. Singh, for ION EXCHANGE INDIA LTD Kolkata (Virtually present).
3. Mr. Karikalan, for Ultra Water Tech Solution, Chennai (Virtually present).

Sub.- DESIGN, SUPPLY AND INSTALLATION OF A WATER TREATMENT PLANT AT THE TOWNSHIP AREA OF HALDIA DOCK COMPLEX HAVING A CAPACITY OF 4.0 MLD ALONGWITH PIPELINE NETWORK ARRANGEMENT INCLUDING OPERATION AND MAINTENANCE OF THE SYSTEM FOR 10 (TEN) YEARS.

Bid No.: I&CF/SDM/RZ/ET/47

BACK DROP:

The subject Pre - Bid Meeting of the above project/work was held at the scheduled date, time and venue both in physical and virtual on line mode. General Manager (Engineering), HDC welcomed all the members present in the meeting as mentioned above with a detailed

deliberation of overall view of the proposed facility to be established at Haldia Dock Complex. Bidders queries submitted both in written as well as verbal and response of HDC are as follows: -

SI No.	Bidder's Query	Response of HDC		
A. Eco Protection engineers Pvt. Ltd.:-				
1.	RO High pressure pumps and Membranes Long lead delivery items. Hence kindly provide the WTP completion period of 15 months.	Completion period of the project would be considered as 14 months from the date of work order.		
2.	Kindly Consider Comprehensive Operation and Maintenance of the Water Treatment Plant including daily testing of the treated outlet water for a period of 1 years	Guarantee Period for the project is 2 years (Defect Liability period). However, O&M Period of 10 years will commence after DL period of 2 years		
3.	Kindly provide the following detail of the existing fresh water reservoirs at Cluster 5 and 6 1. Maximum water level of the tank 2. Top of the reservoir level	The maximum water level of the existing fresh water tank will be 1 m in the tank and the top of the Reservoir will be 1 M. above existing ground level.		
4	Kindly confirm the capacity of fresh water retaining tank at cluster.6	The capacity will be to the tune of 1000 KL.		
5.	As per the location map: Annexure A, the provided area for construction of WTP is 50m x 50m. We presume that, the client will provide the additional area for construction WTP for free of cost, if required by client.	70m. X 70m. area of land can be provided at this location .This size of area has been concurred by all the bidders present in the prebid meeting .		
6.	As per the location map: Annexure A, the total length of proposed pipe line is 4.857 Km from intake to cluster 10. We requested you to provide the existing road specification, width & type for the following location: 1. Intake to WTP 2. WTP to Cluster 5 3. Cluster 5 to Cluster 6	SI NO	Location	Road Spec ,width & Type
		1	Intake to WTP	10.5 M wide paver block road (1 No) ,Depth of formation 1.5 M .

	4. Cluster 6 to Cluster 10	2	WTP to Cluster 5	10.5 M wide Bitumen topped road (2 nos) .Depth of formation 1 m .
		3	Cluster 5 to Cluster 6	5m wide concrete road (1 no) along with canal xing . Depth of formation 0.5 M
		4	Cluster 6 to Cluster 10	Bitumen topped road (2 nos) .1 <sup>st</sup> one with 7 m wide & 2 <sup>nd</sup> one with 25 m wide .In 1 <sup>st</sup> cases depth of formation is 1 m where as in 2 <sup>nd</sup> case depth of formation is 1.5 m .
7.	We presume that, the power tariff for the construction power as per WBSEB, Please provide the power tariff detail for O&M power.	Reference Cl. No.- 5.21, power consumption against construction purpose will be provided on chargeable basis.Per unit cost will be roughly to the tune of Rs 9 per unit over which 19.25 % will be charged as over head charges . However, Provision of Power against O&M will be on free of any charge .		
8.	Kindly clarify that, incoming power facility provided by client is 1. From source to transformer or 2. From Source to LT Panel. Please confirm	LT power source is available at Jawahar Tower Substation which is approx. 250 m from the site location. However, necessary ancillary arrangement as per standard for receipt of power from source to work site will be contractor responsibility.		
9.	Kindly clarify that, during O&M period, In case of absence of power / power failure, alternative power will be arranged by client in agreed power tariff.	During O&M period, HDC provide power supply free of cost including stand by power source.		

10.	Kindly confirm, the alternative scheme can also be proposed by bidder to achieve the treated water quality (as per table1) and quantity 200 Cum,/hr.	The alternative scheme may be proposed by the bidder subject to the scheme in line with updated standard / technology. However, the acceptance of the scheme by the Evaluation committee / authority of HDC.
11.	Total hardness as CaCO <sub>3</sub> = Ca as CaCO <sub>3</sub> + Mg as CaCO <sub>3</sub> . As per tender Ca as CaCO <sub>3</sub> — 260mg/l & Mg as CaCO <sub>3</sub> — 4467mg /l , total hardness value is not matching. Kindly confirm the same.	Total hardness value has been given as CaCO <sub>3</sub> as 1040 based on which scheme has to be made.
12.	Kindly give the approval for additional membrane vendors such as Hydranautics, Flimtec, QUA  Kindly give the approval for additional vendors such as ACPL, Pentair, KaiGO	All the bidders will submit the vendor list of each equipment along with the bids.
13.	kindly clarify 50% x 2nos. Or 100%x 2nos.	As per manufacturers design.
14.	Kindly confirm the plant operating hours	20 hrs. for 80% recovery.
15.	Kindly clarify scope about the sludge treatment or only sludge collection	Collection of the sludge from the WTP and disposal of the same to the low-lying areas as identified by HDC in the bid document.
16.	We presume that, the O&M payment will paid a fixed cost based on the contract value, irrespective of the quantity of treated water production during O&M period.	The O&M payment will be a fixed value based on contract on the basis of outlet flow of 200 Cu.M per Hour and in the non-availability of which penalty provision will be enforced.
17.	Kindly clarify about the RO Reject disposal	RO Reject disposal will be disposed off at the nearest canal at distance of about 250m.
18.	Kindly provide the Geo technical report for location of WTP and Cluster 10.	Geo technical report for nearby location of WTP will be provided but Same may not be required for Cluster 10 because it is already existing.

19.	Service water demand for each reservoir at cluster 5, cluster 6 and cluster10	Cluster 5 --- 500 KL., Cluster 6 --- 1000 Kl.(proposed) and Cluster10—500 KL.
<b>B. Ultra Water Tech Solution: -</b>		
1.	Any limitation in taking the intake quantity.	As per the required quantity.
2.	Distance between the intake docks basin to the proposed WTP required.	About 2 KM.
3.	Whether cascade aerator shall be considered for the removal of iron from the feed water.	As per design of OEM. However, the design of WTP is updated technology / standard and the equipment will be sustainable for life time of WTP. Also, the selection of the equipment should not be more than 2 years old.
4.	Whether lamella clarifier is accepted instead of clariflocculator.	
5.	Whether pre-treatment plant shall be made of RCC or MSFRP construction.	
6.	Whether DMF instead of MGF accepted	
7.	Pressure Vessel/ UF/RO-vender-Hydranautics/DuPoint/LG/EQ required. Hydramen becomes a monopoly vender.	
8.	Sludge recirculation or sludge discharge pump please clarify.	
9.	UF/RO – Recovery not mentioned. Shall consider 80% recovery.	80% recovery rate.
10.	RO reject disposal mechanism not defined.	RO Reject disposal will be disposed off at the nearest canal at distance of about 250m.
11.	Whether geotechnical investigation report available.	The Geo Technical Investigation Report of nearby location to be provided by HDC.
12.	Pollution Control Board / Statutory clearance will under whose scope.	Statutory clearance to be arranged by HDC.
13.	Layout of the proposed location and the WTP required.	Already Provided in the Bid Document.
14.	Surface loading rate/Raise rate of clarifier not defined in the tender document.	The rated capacity of the plant will be designed in such a way that the treated water output will be to the tune of 200 Cu.M

		per hour for an operation period for 20 hrs which will have a recovery rate of 80%.
15.	Whether nearest power source available.	Please refer Sl.no.8 of reply provided above.
<b>C. ION EXCHANGE INDIA LTD: -</b>		
1.	Type of pipe line, whether DI or CI.	Pipe line to be provided will be made of Ductile Iron (DI).
2.	How evaluation of the proposed technology to be implemented by the bidders.	Design / Technology proposed by any bidder will be evaluated by HDC.
3.	General Discussion	<ul style="list-style-type: none"> <li>• The rated capacity of the plant will be designed in such a way that the treated water output will be to the tune of 200 Cu.M per hour for an operation period for 20 hrs which will have a recovery rate of 80%.</li> <li>• The bidders will submit their offers based on their own design, updated technology / standard, methodology supported by documents to achieve the desired quality of treated water as per the parameters laid down in the bid document.</li> <li>• The bidder will be required to submit a brief of the project proposed to be established by him at HDC at appropriate annexure of Tender document with description of the process flow chart along with specification. This technical part of the bid shall be scrutinized by HDC so as to qualify the proposed process suitable and adequate to be installed at HDC for the purpose of water treatment plant as per the parameters of the treated water mentioned in the tender document. In this process, short listing of the bidders in respect of the proposed scheme by them will be undertaken.</li> </ul>

		<ul style="list-style-type: none"> <li>The bidders who will qualify this technical evaluation process, shall be eligible for evaluation of financial bid. The decision of the Evaluation committee in this regard shall be final and binding on the Bidder.</li> </ul>
4.	Extension of date for submission of Bid for 7 days beyond the stipulated date.	Agreed.

**HALDIA DOCK COMPLEX**  
**Syama Prasad Mookerjee Port, Kolkata**  
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**ADDENDUM & CORRIGENDUM NOTICE - I FOR:**

- कार्य का नाम/ - हल्दिया गोदी परिसर के टाउनशिप क्षेत्र में पाइपलाइन नेटवर्क की व्यवस्था के साथ 4.0 एमएलडी की क्षमता वाले वाटर ट्रीटमेंट प्लांट के डिजाइन, आपूर्ति एवं इंस्टालेशन सह सिस्टम का 10 (दस) वर्षों की अवधि के लिए संचालन एवं अनुरक्षण ।
- Name of work - DESIGN, SUPPLY AND INSTALLATION OF A WATER TREATMENT PLANT AT THE TOWNSHIP AREA OF HALDIA DOCK COMPLEX HAVING A CAPACITY OF 4.0 MLD ALONGWITH PIPELINE NETWORK ARRANGEMENT INCLUDING OPERATION AND MAINTENANCE OF THE SYSTEM FOR 10 (TEN) YEARS.
- Ref: NOTICE INVITING TECHNO-COMMERCIAL OFFER,  
vide Bid No. I&CF/SDM/RZ/ET/47/167 Dated – 16.06.2022

No. I&CF/SDM/RZ/ET/47/ 203

Dated: 28.06.2022

To  
(All Bidders)

Reference Bid Document for the subject work, the following amendments shall be applicable:

SI. No.	BID VOLUME/ PAGE NUMBER	REFERENCE	EXISTING DETAILS	TO BE READ / REPLACED AS
1	SCHEDULE OF BID/ SHORT BID NOTICE/ NOTICE INVITING BID of Bid Document.		Last date of submission of bid document -12.07.2022 up to 15:00 hrs.	Last date of submission of bid document -19.07.2022 up to 15:00 hrs.



2	Bid Document. Pg.- 7	CI 4.5	<p>Evaluation of Technical scheme &amp; credential: The documents submitted by the bidders will be scrutinized by an Evaluation committee constituted for the purpose who will scrutinize and evaluate the submitted bids with detail Technology, design and drawing for Civil, Mechanical, Electrical and finalize the scheme of WTP and select the bids eligible for their price bid Evaluation. The bid shall also contain at least 1 (one) no of work experience indicated by the Bidder as Technical Credential having executed project of similar nature and capacity within last 7 years with details of works as per the choice of the bidder, details of in-house facilities along with details of Technology, plant &amp; machinery and manpower being used etc. The evaluation committee shall evaluate the bid on the basis of credential forwarded by the bidder.</p>	<ul style="list-style-type: none"> <li>• The rated capacity of the plant will be designed in such a way that the treated water output will be to the tune of 200 Cu.M per hour for an operation period for 20 hrs which will have a recovery rate of 80%.</li> <li>• The bidders will submit their offers based on their own design, updated technology / standard, methodology supported by documents to achieve the desired quality of treated water as per the parameters laid down in the bid document.</li> <li>• The bidder will be required to submit a brief of the project proposed to be established by him at HDC at appropriate annexure of Tender document with description of the process flow chart along with specification. This technical part of the bid shall be scrutinized by HDC so as to qualify the proposed process suitable and adequate to be installed at HDC for the purpose of water treatment plant as per the parameters of the treated water mentioned in the tender document. In this process, short listing of the bidders in respect of the proposed scheme by them will be undertaken.</li> <li>• The bidders who will qualify this technical evaluation process, shall be eligible for evaluation of financial bid. The decision of the Evaluation committee in this regard shall be final and binding on the Bidder.</li> </ul>
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3	Bid Document. Pg.- 14	CI 5.13	<p><b>TIME OF COMPLETION:</b></p> <p>The work is urgent in nature and the work pertaining to WTP under the scope must be commenced immediately on receipt of the work order which is to be completed in all respects including commissioning of STP within <b>10 (Ten) Months</b> including preliminary time from the date of placement of work order. Subsequently, the service Provider shall take up Comprehensive Operation and Maintenance of the Water Treatment Plant including daily testing of the treated outlet water for a period of 2 years of guarantee period including supply of consumables as will be required for running of plant. No separate payment for Comprehensive Operation and Maintenance for these 2 years will be payable.</p>	<p><b>TIME OF COMPLETION:</b></p> <p>e work is urgent in nature and the work pertaining to WTP under the scope must be commenced immediately on receipt of the work order which is to be completed in all respects including commissioning of STP within <b>14 (Fourteen) Months</b> including preliminary time from the date of placement of work order. Subsequently, the service Provider shall take up Comprehensive Operation and Maintenance of the Water Treatment Plant including daily testing of the treated outlet water for a period of 2 years of guarantee period including supply of consumables as will be required for running of plant. No separate payment for Comprehensive Operation and Maintenance for these 2 years will be payable.</p>
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4	Bid Document. Pg.- 17	CI 5.21	<p><b>POWER SUPPLY</b></p> <p>If available and if required, suitable power supply may be arranged by the Trustees at the nearest existing supply point of the site of work on receipt of request letter from the Bidder to that effect. All necessary arrangements for the distribution at site will have to be made by the Bidder at his own cost as approved by the Trustees' Plant and Equipment Division.</p> <p>Charges for consumption of power shall be periodically recovered from the Bidder's Bill at the rates of WBSEB as prevalent amended from time to time along with departmental overhead of 19.25% including installation and hire charges for meters. The Trustees do not guarantee uninterrupted power supply from the above sources and Bidder shall not be compensated for any delay in providing / irregularity of power supply. The Bidder shall have to arrange for the supply of power at his own cost during such periods.</p> <p>For operation and maintenance of WTP, electricity may be supplied by HDC on prevailing rates plus departmental overhead as mentioned above.</p>	<p><b>POWER SUPPLY</b></p> <p>If available and if required, suitable power supply may be arranged by the Trustees at the nearest existing supply point of the site of work on receipt of request letter from the Bidder to that effect. All necessary arrangements for the distribution at site will have to be made by the Bidder at his own cost as approved by the Trustees' Plant and Equipment Division.</p> <p>Charges for consumption of power shall be periodically recovered from the Bidder's Bill at the rates of WBSEB as prevalent amended from time to time along with departmental overhead of 19.25% including installation and hire charges for meters. The Trustees do not guarantee uninterrupted power supply from the above sources and Bidder shall not be compensated for any delay in providing / irregularity of power supply. The Bidder shall have to arrange for the supply of power at his own cost during such periods.</p> <p>For operation and maintenance of WTP electricity will be supplied by HDC free of any cost.</p>
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5	Bid Document. Pg.- 21-22	CI 5.34	-	<b>Additional provision regarding Penalty during O&amp;M Period</b>	
				<b>Condition C: Liquidated Damages for shortfall of quantum of treated water outflow from the plant (Less than 200 CU M /Hr:</b>	
				<b>Event Triggering the recovery of Liquidity Damages.</b>	<b>Liquidated Damages.</b>
				Non-conformance pertaining to shortfall of treated water outflow than that of 200 Cu per Hr on any given day to be calculated over the quantum of out flow per day divided by the operation time on that particular day.	1% of the O&M payment on that particular day. O&M Payment for that particular day will be calculated based on O&M cost per year divided by 365 days.

Bidders are requested to submit this Addendum & Corrigendum Notice duly signed under office seal along with their Techno-Commercial Offer as an acknowledgement and acceptance.

**महाप्रबंधक (इंजीनियरिंग)**  
**General Manager (Engineering)**  
**हल्दिया गोदी परिसर/ Haldia Dock Complex**  
**श्यामा प्रसाद मुखर्जी पोर्ट, कोलकाता**  
**Syama Prasad Mookerjee Port, Kolkata**