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No.AIWTDs-270/2021/176

Dated, Guwahati, the 1st Nov '2021

Corrigendum-V

In reference to the tender notification no. AIWTDs/270/2021/50 dtd. 11/08/2021 for E-procurement of "Contraction of Terminal and Riverine Infrastructure at Guwahati Gateway Ghat, Assam", certain amendments enclosed as **Annexure-A**, have been incorporated in the bid document.

Also, please find attached **Annexure-B** which contains response to bidder's queries. Bidders are requested to take the note of these amendments prior to the submission of bid.

Gautam Das, ACS
Additional State Project Director
Assam IWTD Society

Memo No. AIWTDs-270/2021/-~~176~~-A
Copy to:

Dated, Guwahati, the 07/11/2021

- i) OSD to SPD, AIWTD Society for kind appraisal of the State Project Director, AIWTDs
- i) The Director, IWT Assam for information and publishing the Corrigendum-II in the website of DIWT www.iwtdirectorate.assam.gov.in
- ii) AIWTD Society's Website: www.aiwtdsociety.in
- iii) e-procurement portal of Govt. of Assam viz. www.assamtenders.gov.in
- iv) The Office Notice Board

Additional State Project Director
Assam IWTD Society

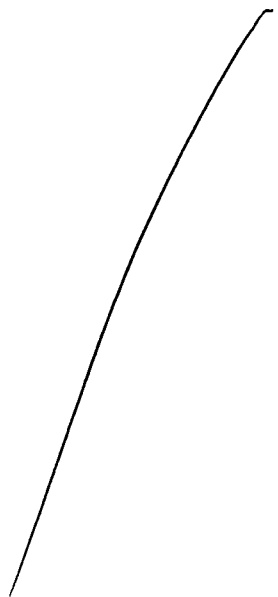
Annexure-A

CORRIGENDUM-V

“Contraction of Terminal and Riverine Infrastructure at Guwahati Gateway Ghat, Assam”

Reference Notice No.: AIWTDS-270/2021/¹⁷⁶ Dated, 01/11/2021

Ref. Clause No.	As per Specification	Modified As
Cl. 1.1.3.5 Vol – III Bid Document	The design velocity of current in river Brahmaputra at Guwahati Gateway Ghat (GGG) is 4.0 m/s.	The design velocity of current in river Brahmaputra at Guwahati Gateway Ghat (GGG) is 3.0 m/s



Gautam Das, ACS
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Annexure B : Replies to Bidder's queries

Sl. No	Description	Reference			Context	Bidder's Query	Employer's Response
		Section / Part	Clause	SR Page No			
1	Contractor's temporary loadout facility/office set etc					<p>As per the scope of work and construction methodology, it is necessary to have temporary loadout facility followed by fabrication yard to handle the steel piles.</p> <p>Hence, bidder requests Employer to confirm whether any such temporary load out facility having size of minimum 150m length approx in to the river and yard facility having 200m X 50m on the land side next to temporary loadout facility.</p> <p>If such facility is not available readily, bidder request Employer to provide the layout showing where bidder can establish their temporary loadout facility and fabrication yard.</p>	<p>IWT Assam currently doesn't have such facilities. However bidders are requested to identify convenient location of their own for carrying the required activities within the stipulated time.</p>

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2	Fire Fighting system	VOULME II		279	FIREFIGHTING PUMPING CAPACITY	<p>As per the tender specification, volume II, clause no 6.1, pg. 279 Ordinary hazard is specified and as per the tender drawings the number of hydrants to be provided are indicated below:-</p> <ol style="list-style-type: none"> 1. Double Headed Hydrants = 41 Nos 2. Single Headed Hydrants= 1 Nos <p>-</p> <p>As per the TAC double headed hydrants shall be counted as two. Therefore, total 83 Nos of fire hydrants will be connected to the fire fighting pumps.</p> <p>As per the TAC , For fire fighting system with 83 Nos of fire hydrants with ordinary hazard , the pumping capacity shall be 273 m3/hr. However, the pumping capacity is provided as 137 m3/hr (Tender specification, volume II and tender drawings)</p> <p>-</p> <p>Therefore, bidder is requesting OWNER to reconfirm the capacity of the fire fighting pumps to be provided.</p>	Based on the preliminary basic design, 83 hydrants has been envisaged on the basis of layout and duty points which requires 273 m3/hr pumping capacity as per TAC norms. Bidder to verify and consider it as per the standards while submitting the tender.
3	Fire Fighting system	VOULME II		279	CAPACITY OF THE JOCKEY PUMPS	<p>As per the query 1, the jockey pump capacity could also be revised.</p> <p>-</p> <p>Therefore, bidder is requesting OWNER to reconfirm the capacity of the jockey pumps.</p>	Capacity of the jockey pump shall be 10.8 m3/hr.

4	Fire Fighting system	VOULME II		279	FIREFIGHTING MAINS SIZE	<p>AS per the bidder's query no. 1 , the size of the mains will also be revised as the pumping capacity is revised.</p> <p>-</p> <p>Therefore, bidder is requesting OWNER to reconfirm the pipe size of the firefighting mains along with it's material of construction.</p>	Bidder to design as per Comments mentioned in sl. No.1 of Mechanical comments.
5	Fire Fighting system	Tender Drawings	-	-	FIREFIGHTING STORAGE TANKS	<p>As per the tender drawing P.013223-P-20318-250 , water storage of the 1hr aggregate pumping capacity is specified for firefighting tanks (76 m3 x2 nos = 152 m3).-However, as per TAC/NFPA minimum 2 hrs of the aggregate pumping capacity shall be provided for ordinary hazards (2 hrs x 137 m3/h = 274 m3).-Therefore, bidder is requesting OWNER to reconfirm the capacity of the firefighting tanks to be provided. -</p> <p>If capacity of tank is revised, then revised tank dimensions could be specified.</p>	As per TAC/NFPA, minimum 2 hrs of the aggregate pumping capacity shall be provided for ordinary hazards. Bidder to design the effective capacity of the tank accordingly.
6	Fire Fighting system	-	-	-	FIREFIGHTING PIPELINE	<p>For the pathway and the pontoons, fire hydrant system is requested in the tender.</p> <p>-</p> <p>The pontoons will change their level based on the water levels in the river.</p> <p>-</p> <p>Hence, for pipes over the pathways and pantones will require the flexible connections/ joints .</p> <p>-</p> <p>Therefore, bidder is requesting OWNER to advise on the same. Detail requirements could</p>	Bidders understanding is correct.

						be specified.	
7	Fire Fighting system	Tender Drawings	-	-	TANK FILLING PUMP CAPACITY	<p>The capacity of the tank filling pump is indicated as 145 m3/hr in the tender drawing P.013223-P-20318-250,</p> <p>-</p> <p>However, as per the NFPA, filling rate of the tank shall be such that 2 hrs of the aggregate pumping requirement shall be filled in 8 hrs.</p> <p>-</p> <p>Therefore, the pumping capacity for the filling shall be 34.25 m3/hr { for 137 m3/hr firefighting pump} .</p> <p>-</p> <p>Bidder is requesting OWNER to reconfirm the filling capacity of the pump.</p>	Bidders to design as per the NFPA guideline considering filling rate of the tank shall be such that 2 hrs of the aggregate pumping requirement shall be filled in 8 hrs.
8	Fire Fighting system	Tender Drawings	-	-	TANK FILLING PUMP CAPACITY	<p>As per the tender drawing P.013223-P-20318-250, Duplex strainer is requested for the firefighting water.</p> <p>-</p>	The Duplex strainer is suitable for borewell water. During detailed engineering, water

					<p>Bidder presumes that the source of the fire fighting water is river water and same shall be used for the sprinkler system after passing through the duplex strainer.</p> <p>-</p> <p>However, the slit content of the river water is very high and duplex strainer may not be capable of handling such amount of silt. This may clog the sprinkler system.</p> <p>-</p> <p>Therefore, the pressure sand & Activated Carbon filter could be used. Bidder is requesting owner to advise on the same.</p>	<p>quality test shall be conducted and additional treatment process if required shall be provided.</p>
9	Water Filling Arrangement	Tender Drawings	-	-	<p>LOCATION OF THE SUMP</p> <p>As per the tender drawing P.013223-P-20318-250, the water filling sump is located approx. 6 m below the LWL of the river.</p> <p>-</p> <p>However, the location and civil works requirement of the sump is not indicated in the tender.</p> <p>-</p> <p>Bidder is requesting owner to provide the same.</p>	<p>The source of water is from Bore well.</p>
10	Source of Water	Tender Drawings	-	-	<p>SOURCE OF WATER</p> <p>As per the tender drawing P.013223-P-20318-250, the water filling sump is located approx. 6 m below the LWL of the river. Therefore, the source of water seems to be river water.-However, the as per Detailed Project Report VOULME 1 pg. 137 , the bore wells are indicated as the source of water.-Bidder is requesting owner to clarify the source of water.</p>	<p>The source of water is from Bore well, which is to be installed by the EPC contractor. The system shall be capable of connecting from the municipal water supply in future.</p>

11	Water Supply	Technical Specifications Volume II	1.2 .4	18	WATER SUPPLY SYSTEM TO VESSELS	<p>Freshwater hydrants for supplying water to vessel, washing and cleaning pontoon is requested in the tender.</p> <p>-</p> <p>However, the collection and disposal of the sewage/drainage from vessel/ships to the STP of terminal building is excluded.</p> <p>-</p> <p>OWNER shall reconfirm the exclusion.</p>	The collection and disposal of Sewage and drainage for vessel/ships is excluded. The water collected from washing and cleaning of pontoons shall be pass through silt and O&G trap before disposal.
12	STP	Detailed Project Report VOULME 1	-	-	CAPACITY OF THE STP	<p>On the Detailed project report pg. 138, STP of the capacity 60 KLD to be proved is indicated.</p> <p>-</p> <p>However, the capacity for the same STP is specified as 100 KLD on pg. 96 of the same document {DPR} and capacity is not indicated in the tender specifications.</p> <p>-</p> <p>Bidder is requesting OWNER to reconfirm the capacity of the STP to be provided.</p>	100 KLD STP to be provided.
13	Pump House Shed	-	-	-	PUMP HOUSE SHED	<p>As per the tender drawing, P.013223-P-20318-228 the open shed for the firefighting pumps is specified.</p> <p>-</p> <p>As per TAC clause 7.4.1.15, Pumps shall not be installed in open. The pump rooms shall normally have brick/concrete walls and non-combustible roof, with adequate lighting, ventilation and drainage arrangements.</p> <p>-</p>	Bidders understanding is correct. Pumps shall be installed under shed with walls.

						Bidder is requesting OWNER to reconfirm the requirement of the open shed for the pump house.	
14	STP	-	-	-	SHED REQUIREMENT FOR THE STP	<p>Only location & space is indicated for the STP of the terminal building. The requirement of the shed for the STP is not specified in the tender.</p> <p>- Bidder is requesting OWNER to reconfirm the requirement of the shed for the STP.</p>	A pre-fabricated package type STP is proposed to be installed. A shed shall be provided for E&M equipment, solid water handling and at operational areas.
15	Ventilation Fans	Tender Drawings	-	-	Wall Mounted Fans	<p>The wall mounted exhaust fans are requested for the various rooms of the building.</p> <p>- However, as per the tender drawing, P.013223-P-20318-241 the outer wall is comprises of glass cladding/ solar panel.</p> <p>- Bidder is requesting OWNER to reconfirm the requirement of the wall mounted exhaust fans.</p>	The exhaust fans shall be provided on walls as shown in the drawing. There will be wall in addition to glass cladding for the building. Please refer relevant drawings.
16	Ventilation System	Detailed Project Report VOULME 1	-	-	VENTILATION SYSTEM	<p>Spilt Air Conditioning unit of 1.5Ton capacity is proposed to be provided in the Control & Switchgear room as per Detailed Project Report VOULME 1 pg. 123.</p> <p>- However, the exhaust fans are also shown in the tender drawing P.013223-P-20318-242 for the Control & Switchgear room.</p> <p>-</p>	No Split type air conditioner of capacity 1.5 Ton is required for Control and Switchgear Room. The exhaust fans shall be provided as shown in the drawing.

					Bidder is requesting OWNER to reconfirm the system to be envisaged for control & switchgear room.	
17	1) DPR 2) Technical specification	1) 2.2.2 2) 1.1.3.5	1) 31 of 231 2) 14 of 280	Velocity	Design velocity at Guwahati gateway terminal - 3 m/s as per DPR. However, Velocity of 4 m/s given in technical specification documents. Bidder requests Employer to confirm which value to be taken for design purpose.	Bidders should consider velocity of 3m/s for design purposes
18	DPR	2.3.3	35 of 231	Scour depth	Design scour level is 11.44m provided in the DPR. Bidder shall consider the same for design of terminal. Bidder requests Employer to confirm the same.	Design scour level is to be used as mentioned in the design DPR document
19	General				Bidder requests Employer to provide the details of boat that will be berthed against a single pontoon of 60m length and its berthing forces.	Berthing pontoon shall cater existing IWT ferry vessels. Vessel details can be referred in the DIWT official website

20	Scour near bank	DPRVol1	-	127	Scour depth	<p>As per provided DPR, +11.44 m is the scour level in bank seat and +25.41m in terminal building support structure.</p> <p>Bidder requires clarity on the same as bank seat and platform structure are close to each other whether same scour depth to be assumed.</p>	Bidders should consider scour level for bank seat for design purpose
21	Geotechnical Data	Vol II Enclosure 3a - Geotechnical Investigation Report	-	-	Geotechnical data	<p>Only one river borehole RBH1 is inadequate to idealise and design the complete structure.</p> <p>Bidder kindly request to provide data of LBH 1 to LBH 5 and RBH-2 to RBH-5 which is mentioned in the geotechnical report.</p> <p>Also, request to provide any additional bore hole available near river bank</p>	For preparation of DPR, only one borehole i.e RBH-1 is executed and reports are available in the DPR.
22	Bore holes	Vol II Enclosure 3a - Geotechnical Investigation Report	-	-	Lab test	Bidder request Employer to provide lab test results for the bore holes provided for scour depth analysis.	Not available

23	Grade of structural steel	Volumell Technical Speicification	-	118	Tubular steel piles shall be fabricated circular hollow sections manufactured to E275BR grade steel as per IS 2062 and IS 8500.	There is no material consist of Fy-275 N/mm2 is available at market. Whether bidder can consider higher grade of steel for design. Employer to confirm	Bidders should strictly adhere to the design specification
24	Deflection criteria	-	-	-	Deflection limit	Bidder requests deflection limit for piles in operating and extreme condition.	Please refer to clause 5.7 of Vol 1 of DPR
25	Live load	-	-	-	Live load	Bidder request clarity whether 5kN/m2 live load can be considered over the terminal building support structure.	Bidders should consider the live load for terminal building as per prevailing building codes.



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