



অসম আভ্যন্তৰীণ জল পৰিবহন উন্নয়ন সমিতি
Assam Inland Water Transport Development Society
(An Autonomous Body under the Transport Department, Government of Assam)

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E. No. 290181/308

Dated, Guwahati, the August'2024

Reply to Pre-Bid Queries

RFB No.: IN-IWT-394222-GO-RFB

Tender Notification No.: AIWTD-11013/23/2023-AIWTDS dtd. 22nd July'2024

Assignment Title: Providing Basic Amenities at 2 (two) important ferry Ghat points (Rajaduar at North Guwahati and Kamalabari at Majuli) with HDPE material, as floating pontoon. (as the pilot project).

Replies to Pre Bid Queries held on 01/08/2024 at 15:30 p.m.

Sl. No	Section, subsection and clause in RFB	Page no. in RFB	Existing Clause	Bidders query/Suggestion	AIWTDS Response
1	Sec VII. ToR 4. Timelines and Milestones Clause: 4.1.2	Page 78	The Contract duration for the entire scope of work for Supply, Installation, Testing, Commissioning of Floating Pontoons and Gangway/ Walkway shall be 8 weeks from the date of signing of the Contract. No idle time charges on any account shall be paid to the contractor during the contract period.	Delivery Period of 08 weeks indicated for the project appear to be too short, considering the complexity of the work and the requirement for delivery to two different locations. Given the nature of the project, including the fabrication and installation of HDPE pontoons and associated works, 24-week delivery period is more realistic and necessary to ensure high-quality execution and adherence to safety standards. The current timeline and milestones indicated for the project appear to be too	Tender clause remains unchanged.

				<p>short, considering the complexity of the work and the requirement for delivery to two different locations. Given the nature of the project, including the fabrication and installation of HDPE pontoons and associated works, 24 –week delivery period is more realistic and necessary to ensure high-quality execution and adherence to safety standards.</p> <p>Additionally, the payment is not linked to completion of key milestone. For effective project management and to ensure that all phases of the work are funded appropriately, payment terms should be linked to the completion of each milestone.</p>	
2	Sec I. ITB Clause 12.3 Submission of Original documents	Page-15	The bidders are required to separately submit (i) original demand drafts towards the cost of bid document and registration on e-procurement website (if not previously registered) (as per RFB); and (ii) original bid security in approved form, with the office specified in the BDS, before the opening of the Bid, either by registered/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened. Hard copy of rest of the bid is not to be submitted.	<p>Bidders are required to submit Original Demand draft towards cost of Bid.</p> <p>Please note there is no cost towards bid documents mentioned in your tender hence kindly confirm that the submission of Original Demand Draft will be not be applicable for this tender.</p>	There is No cost towards the bid document. EMD is not applicable.
3	Sec VII. ToR 3.1 General Clause: 3.1.12	Page-68	Perform the relevant tests for HDPE modular float units from Central Institute of Petrochemicals Engineering and Technology (CIPET), Guwahati.	Please note that CIPET is a centralized agency with multiple centres across India that conduct tests for HDPE pontoons. In light of this, kindly confirm that a CIPET test certificate from any of its centers across India will be accepted, and not just from the Guwahati location.	No Change
4	Sec VII. ToR 3.3 Works Requirements Clause: 3.3.4	Page-69	The following facilities shall be provided: a) Adequate Lighting with all required electrical infrastructure. b) Passenger Amenities i.e. shelters, drinking water arrangements, designated	Adequate Lighting – Kindly confirm that additional lighting referred to in this clause is solar powered flashing beacon. Also kindly share number of Solar beacon required at each location?	Adequate Lighting: lighting referred to in this clause is solar powered flashing beacon. The lights shall

			<p>waiting areas, seating arrangements,</p> <p>c) Toilet for gender specific. i.e. with suitable bio toilet system with Fiber Reinforced Plastic (FRP)</p> <p>d) Fire extinguishers, and life buoys.</p>	<p>Passenger Amenities: Drinking water arrangements, designated waiting areas, seating arrangements, It is not understood what exactly bidder scope of supply is in this point. Kindly explain what type of seating arrangement needs to be done.</p> <p>Fire Extinguisher and Life Buoys – Please indicate total number of Fire Extinguisher and Life Buoys to be provided at each location</p> <p>Kindly elaborate in detail for Lighting & electrical structure with quantity. Will there be any electric connection? Do we need to make room / shelter for the Lighting arrangement?</p> <p>Kindly elaborate in detail with quantity, dimensions for Passenger Amenities i.e. shelters, drinking water arrangements, designated waiting areas, seating arrangements.</p> <p>Kindly mention quantity for Fire Extinguishers & Life Buoys.</p> <p>Exact Data Required: We found that the exact data like specifications, quantities are missing for some items. Kindly provide same for following items: -Lighting and Required Electrical Infrastructure -Passenger Amenities i.e. shelters, drinking water arrangements, designated waiting areas, seating arrangements -Fire extinguishers and life buoys</p>	<p>confirm to Red and Green as per Navigational Regulations and Standards</p> <p>Passenger Amenities: Necessary and Required fixtures are to be fixed as mentioned including the seating arrangement for 100 passengers.</p> <p>Fire Extinguisher and Life Buoys: One No Dry Chemical Powder fire extinguisher shall be provided on each pontoon. Ten No of life buoys shall be provided on each pontoon</p>
5	Sec VII. ToR 3.5.1 Floating pontoon units	Page-71	<p>Hand Rails: Hand rails to be made from epoxy painted MS. Height: 1m. Hand rails shall be</p>	<p>Given that HDPE floating pontoons experience significant movement due to water fluctuations, the specified handrail</p>	

	Sl.no. 9		<p>fabricated from epoxy painted MS. WPC Hand Rail top runner having 1.25" pipe insert at the top. MS vertical posts of 1000mm height of 50mm sq pipe shall be provided at every 1.5m. The Hand Rail Posts shall be continuous and welded to the jetty for strength and safety. Total of 3 rows of horizontal runners of 1.25" sq. shall be running throughout the length of the railing. Between the 2nd and the third runner, vertical MS pipes of length 2' shall be fixed at intervals of 4". The distance between the 1st and the second horizontal runner shall be 4". The third horizontal runner shall be 4" from the ground. All vertical posts are fixed to the jetty on 1 4" sq. plate on the frame along the edges.</p> <p>The hand rail to be provided on both sides of gangway and on the shore side of the jetty.</p>	<p>system with three rows of horizontal runners and a WPC handrail top runner with a 1.25" pipe may not be adequately load-bearing for safety, as it is primarily designed for static structures like jetties for aesthetic purpose.</p> <p>Kindly consider MS handrails with the same structure. Handrails Fabricated out of MS pipe with anticorrosive paints, 1.0m high.</p>	RFB conditions shall prevail
6	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 11	Page-71	<p>Anchoring: The anchoring will be provided with double braided nylon rope to achieve required scope of with high holding power delta flipper anchors.</p>	<p>Anchoring: Kindly provide the thickness of double braided nylon rope. Also, we recommend combination of Steel Chain for Better Anchoring at site.</p> <p>The anchoring system needs thorough study. Utilizing suitable anchors along with 1-ton or 500-kg concrete blocks as dead weights is recommended to provide sufficient stability for the floating jetty under adverse conditions. This approach will contribute to the long-term durability and safety of the jetty.</p>	<p>The diameter of the double braided nylon rope shall be two inches.</p> <p>The anchoring system shall be as mentioned in the RFB.</p>
7	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 13	Page-72	<p>Super Structure: The superstructure to have canopy made of min 750D High Tensile PVC Fabric / PVC Roof Shingles / ACP Panels. Side Height: min. 8'. The canopy to be supported on 4" dia MS pipe columns and to have the patterns as indicated in the layout.</p>	<p>No layout provided for Canopy in the tender. Please provide the design of the canopy to be made</p>	<p>The canopy shall cover the area of the pontoon. The superstructure shall confirm to RFB conditions.</p>

8	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 18	Page 72	- Resistance to Impact, Degradation, Chemicals, UV rays etc.: UV Weathering Test (48 hrs) Temperature Resistance Test IZOD Impact Test (As mentioned in the Technical Specifications and work requirement).	To check the quality of the HDPE raw material test certificate for Melt Flow Index is generally asked. In various government tenders following test parameter of Melt Flow Index is asked: Melt Flow Index (MFI) of the raw material should be less than 3 g/10 min at 190o C & 21.6 kg load. (supporting tenders attached for reference). Hence, request you to add this test certification from CIPET or any equivalent government lab.	RFB conditions shall prevail.
9	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 20	Page 72	- Lighting arrangement: The Floating pontoon shall be equipped with a solar powered flashing beacon (white/yellow flashes of 22- 30 fpm) and approved by the competent authority. OEM Test Reports to be submitted.	Kindly confirm competent authority mentioned in this clause is the Engineer in Charge?	Competent Authority is Engineer in Charge
10	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 21	Page 72	- Quality Assurance: Material test certificates, for the applicable parameters /properties, from relevant Govt. approved authority /OEM to be submitted.	Kindly mention which quality assurance test certificates are required? As mentioned above in our Point No 3 (here Sl. No. 8), MFI is the best method to assure the quality of the product.	All the relevant material test certificates to be submitted for the list of tests mentioned in the RFB.
11	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 22	Page 72	- Final certification: Final testing at site of the assembly, with respect to stability, safety, technical compliance & operational effectiveness to be done in the presence of Employer.	Kindly confirm if stability booklet prepared by naval architect empanelled under IV act 1917 (any subsequent modification as approved by government) will be acceptable. We recommend Government Approved Naval Architect should do the final testing of the structure.	Testing and certification shall be as per the prevalent Rules and Regulations applicable to marine industry.
12	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 23	Page 73	- Connecting Gangway: Width: min. 2.0 m Length Approx. 9 m (3mX3 piece). Each piece to be of 3m x 2.4m. Free Board Minimum: 50% of floating gangway base shall be above water at all times. Access Ramp: Foldable access ramp of	The specification of the Gangway mentioned in the layout is an Aluminium Gangway of Size 9 x 2 meter, whereas no specification of Gangway is mentioned on Page 73, Point 23. The requirement as stated is for floating gangway of 3mtr x 3 piece. Kindly confirm whether your requirement	The material and sizes of gangway shall be as mentioned in the RFB. The frame envelop for two layered HDPE pontoon assembly shall be marine

			<p>length 2m to be provided at the shore end of the gangway for boarding & de-boarding. The ramp to be made from GI sections with minimum 2mm aluminum sheet.</p>	<p>is for double layered floating gangways of suitable MS Frame enveloped HDPE floating material in 9m length x 2m width x 0.8mtr height?? Also confirm the specifications of HDPE Cube material and Framework to be of same specifications as that of the jetty.</p> <p>Connecting Gangway: Please mention the material of Gangway. Access ramp: Please elaborate the usage of this ramp with drawing if possible.</p> <p>Material of the connecting gangway is missing. Kindly provide the same to quote in tender.</p>	<p>grade aluminum. The specifications mentioned in RFB are the compendium of the requirements and these shall prevail.</p> <p>Gangway material shall be marine grade aluminum. Access ramps are for ease of embarkation and disembarkation to the floating pontoon. Material for gangway connectors shall be GI</p>
13	Sec VII. ToR 3.5.1 Floating pontoon units Sl.no. 24	Page - 73	<p>Bio toilets: Bio toilets: 3nos. (01 Men, 01 Women, 01 Differently abled)</p>	<p>In Point 24, the requirement for HDPE double-layered pontoons is mentioned. However, the specifics of what is required are unclear from the description in Point 24 on Page 73 and what is shown in the layout.</p> <p>Please provide a tentative design of the Bio Structure and also holding tank capacity of the Bio Toilet structure for further clarification. Plumbing work for proper discharge to be clarified.</p> <p>Kindly note that there will be cleaning & exhaust issues if we fix these toilets on Floating Pontoons. We recommend that they should be placed on shore side for proper operation and cleaning / exhaust purposes.</p> <p>Bio Toilet Placement: Constructing the bio toilet on the jetty presents several challenges, including frequent cleaning and sewage disposal, which could hinder</p>	<p>The specifications and requirements shall be as mentioned in the RFB and these shall prevail.</p>

				<p>operations. A shore-based toilet facility would be more practical and manageable. Even with chemical toilets, the need for regular maintenance could disrupt operations. Therefore, it is advisable to build the bio toilet onshore, ensuring ease of access and maintenance.</p> <p>Bio Toilet is capturing almost 1/4th area of the HDPE Pontoon. It will not look good on tourist places like HDPE Pontoon as it will become untidy after sometime of operation. Its maintenance is also an issue. During maintenance it will disturb the tourists on the HDPE Pontoon. Therefore, practically it should be located nearby land / shore spots.</p>	
14	Sec VII. ToR 3.5.2 Fish Landing/ Storage Facility Sl.no. 1, 2 & 3	Page - 74 & 75	<p>1. MODULAR HMW HDPE CAGE FRAME (Walking Platform): Made of modular HMW HDPE DOCKS Joint together with nylon nuts and bolts. Shape& Size: Rectangular and size is 11m x 11m having central cavity of 9m x 9m. Structure: Frame with high load bearing capacity of 350kg/m², made from Floating Docks made of virgin HDPE having Dimension: 666mm × 666mm × 400mm (L x W x H) variation max (+/-) 2%. The float's sides having interlocked male female sides for additional safety. Weight of each pontoon: 11kg (+/-)5% Lug thickness 20 to 22mm. Colour: Combination of Blue & Orange. Material: HDPE Modular Docks fitted with non-metallic Nuts & Bolts. Walking Surface should have Checkered Finish for Anti -Skid protection. The Battery of Cages to be integrated having width of 1.2m all around the cage. It should</p>	<p>Please provide the design layout of this requirement with HDPE blocks, cage net and Bird Protection net.</p> <p>As this project is for basic amenities involving HDPE Pontoons for Fery Tourist / Passenger, we failed to understand relevance of Fish Landing / Storage Facility in this project. Moreover, as shown in the tender diagram it will be obstacle for any vessel which is berthing at the HDPE Floating Pontoon plus it will create stability issues (drawing attached). Kindly elaborate the same.</p> <p>Also, this Fish Landing/Storage structure is asked to be made using 666 mm X 666 mm X 400mm HDPE pontoons. Please note that this type of HDPE pontoon is very different than 500mm X 500 mm X 400 mm pontoons. They are different in size, male female interlocking of</p>	<p>The specifications and requirements shall be as mentioned in the RFB and these shall prevail.</p>

		<p>be modularly fitted / interlocked.</p> <p>2. CAGE NET: Shape: Rectangular Size: 9mtr x 9mtr x 1.5mtr. Bottom: Closed Flat Mesh: 25mm – 30mm kk knotless Material: HDPE Knotless, full mesh UV stabilized, 204 ply. MBS: 66 kgf. Cage Net Top is provided with lined with 12 mm PP Rope with 8 loops of 12 mm Thickness & 1.5 inch Diameter at 8 places at equal distance. All the 8 places are lined from top to bottom with 12 mm PP Rope and connection at bottom middle. Bottom is flat closed with same webbing. 0.5m Feed Screen to be provided along the periphery.</p> <p>3. BIRD PROTECTION NET: Shape: Rectangular Size: 9Mtr. X 9 Mtr. Mesh: 50mm to 60mm Twine: 18 ply HDPE. Material: Nylon / HDPE knotted net. The net is provided with necessary loops to ensure proper tying on the four corners and middle.</p>	<p>respective cubes (photo attached). Hence, they cannot be fixed by using normal procedures. To connect these two different structures some kind of unnatural tactics have to be innovative which will definitely cause stability issues. Therefore, we request you to allow Fish Landing/Storage structure to be made in 500 mm X 500 mm X 400 mm pontoons OR allow both the pontoon options for making this structure. We recommend it should not be part of this project but it can have its different tender separately.</p> <p>Fish Landing / Storage Facility Pontoon Dimensions: The proposed dimensions of the fish cage pontoon (666 mm by 666 mm) deviate from the standard size (50 cm by 50cm), which could lead to unnecessary complications and mismatches during installation. It is important to note that 99% of fish cages are constructed using the 50cm by 50 cm dimensions pontoon. Adhering to this standard size would eliminate any technical issues and ensure a smoother integration process. There is no regular way by pin which are used to join the cubes, so there will always be some issue of integration. Any method adopted will be irregular, and there is absolutely no requirement to make the jetty of one size and the fish cage of another size and then join them. The same can be confirmed by IIT. Either the option to make the full jetty in 0.66m by 0.66m or 0.5m by 0.5m is correct and practical.</p>	
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				<p>Placement of the Fish Landing / Storage Facility: The fish cage, as currently planned, poses a significant obstruction to the natural flow of larger boats and is likely to cause accidents. There is no requirement for the fish cage to be fixed to the main jetty terminal. It is recommended that the fish cage be constructed separately from the main jetty terminal, as it falls outside the scope of the Inland Waterways Authority of India (IWAI). This adjustment would enhance navigational safety and operational efficiency.</p> <p>We are very surprised to see that Fish Farming activity is part of this project. These kinds of structures are made under fisheries most of the time. So, the presence of this structure in your project looks irrelevant.</p> <p>Further it is observed that the specifications of this Fish Landing / Storage Facility structure are different than the HDPE pontoon specifications. Most of such structures like fish cages are standardized with specifications of HDPE pontoon modules (viz 50 cm X 50 cm X 40 cm), which simplifies integration and as almost manufactures / dealers in India use 50 cm X 50 cm X 40 cm HDPE pontoon. Using this standard size will ensure a more seamless and trouble-free installation.</p> <p>Current tender specifications for Fish Landing / Storage Facility structure are 666 mm X 666 mm X 400mm which is with only one manufacturer and will not match the modules of HDPE pontoon</p>	
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					during installation. So, for proper installation purposes both the modules of HDPE pontoon and Fish Landing / Storage Facility structure should be of the same specifications.			
15	Sec VII. ToR 3.7 Platform Deck Clause 3.7.1	Page 77	-	Material for platform deck shall be with Aluminum checkered plate with 2 mm thickness as per AISI 430 adhering the durability and functional requirements.	We request you to allow WPC option too for making the platform deck to radiate aesthetic values of this project.	RFB conditions prevail.		
16	Sec VII. ToR 4.2 Milestones Clause: 4.2.1	Page 78	-	The following milestones have been identified under the scope of works and works requirements. These have to be strictly adhered.	Due to the nature of this project, expected natural challenges at site & manufacturing process we request you to kindly extend 3 weeks' time more.	RFB Conditions prevail.		
				S I N O .			Activity	Time ("T" in weeks) reckoned from the date of Signing of Contract
				1			Pre-despatch inspection of all components (HDPE units with all structural elements)	T+3 weeks
				2			Fabrication of HDPE pontoon assembly and Gangway	T+6 weeks
				3			Procurement and delivery of HHP Delta Flipper Anchors at site	T+6 weeks
4	Installation and Commissioning with all amenities	T+8 weeks						
17	Sec VII. ToR	Page	-	Samples of all items, Floating unit for Jetty	To ensure project quality and adherence	RFB conditions prevail		

	3.4 Terms & Conditions Clause: 3.4.4	70	and Landing center, Long Pin, Center Small pins, Rubber Fender & Cage Nets must be submitted before Commencement of Works.	to technical specifications, it is essential that samples of all items, such as Floating Units, be requested along with the technical bid submission rather than waiting until the commencement of work. Verifying samples at the technical bid stage is crucial as it confirms the bidder's ability to provide the specified materials and demonstrates their readiness to meet project requirements. This process helps to identify bidders who are capable of supplying the correct materials, ensuring that all materials meet the project's quality standards and are delivered on time. By reviewing samples during the bid phase, you can guarantee that the project will adhere to the desired performance, completion timelines, and safety standards. Therefore, please consider requesting samples along with the technical bid documents and conducting verification at the technical stage to prevent any delays post work award.	
18	N/A	N/A	N/A	BOQ: There are 02 fields in BOQ where bidders needs to insert the price bid amount. Unit price (Column 13) and Price per line item (Column 16) Kindly confirm that bidder has to insert the transportation cost in Column 15??	Bidders have the liberty to fill Column no. 13, 15 and 16. Total Transportation cost needs to be filled in Column no. 15. Evaluation will be done as per total quoted amount in Column 53.
19	N/A	N/A	N/A	It appears that the design layout of HDPE Pontoon and Other structures shared in the tender might lead to uneven weight distribution. Have stability and safety calculations been carried out for the proposed design? Also, will size adjustments be allowed to ensure that the entire setup remains floating on an even keel in all conditions, considering uneven weight distribution?	RFB conditions prevail

**(Gaurav Upadhyay, IPS)
State Project Director,
Assam IWTD Society**

Dated, Guwahati, the August'2024

Memo No. 290181/308-A

Copy to:

- i) The Director, IWT Assam, Ulubari, Guwahati-7 for information.
- ii) Website of Assam IWTD Society viz. www.aiwtdsociety.in
- iii) For publishing in www.assamtenders.gov.in

Sd/-

State Project Director
Assam IWTD Society