

DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND MAINTENANCE OF FLOATING PONTOONS AND GANGWAY/WALKWAY AT PROPOSED LOCATION OF NW-3

TENDER No: IWAJEC-14/15/2025-TECHNICAL

Prebid meeting date 11.06.2025, 1500 hrs

Sr.No	Firm	Section No, Clause, Sub Clause No and Page No. of Tender	Tender clause description	Queries	Draft Reply to queries
1	2	3	4	5	6
1	M/s Superior Jetten LLP, Vadodara - 390007, Gujarat	Technical Specifications (5.5.1.1) Sl. No.2, Pg. 56	HDPE (High-density polyethylene as per IS 7328:2020) Material to be used should be BS500 (IS 7328:3B-HBB PXTA) or equivalent	We Use Metallocene based HDPE leading to i. More uniform polymer chains (narrower molecular weight distribution) ii. Improved mechanical properties, such as iii. Higher impact resistance. iv. Better ESCR (Environmental Stress Crack Resistance) v. Excellent toughness and flexibility.	Tender conditions shall prevail. The specification suggested are detailed specification of similar/other type of material. The bidder may conform to the specifications provided by IWAJ.
2		Technical Specifications (5.5.1.1) Sl. No. 3, Pg. 57	Size & Weight of each module / block To be proposed by bidder.	Size of single dock : i. 3mtr x 2mtr x 0.4mtr (6 SQM) ii. Wall Thickness of the dock is Approx. 10 to 12MM iii. Weight of single dock 200kg ± 2kg iv. Dock standard is AS 3962 Standard v. Dock Made in INDIA	In case, the bidder wants to bid with similar specifications, a Certificate from any IIT/NIT/ Govt Engg College should be submitted by stating that the quoted specifications are better (or) equivalent to the specifications prescribed by IWAJ.
3		Technical Specifications (5.5.1.1) Sl. No. 4, Pg. 57	Weight carrying capacity of module / block Minimum 325 kg/m2 Or more.	SMD Load capacity (Buoyancy) of each dock 2400kg for 6 SQMtr. Or 400 Kg/m2 Weight of single dock 200kg ± 2kg	No change in estimate/cost will be allowed.
4		Technical Specifications (5.5.1.1) Sl. No. 5, Pg. 57	Deck / Top Cover Material shall be same as module Floor finish shall be Anti-skid and as approved by EIC	Top surface CSIRIS certified slip resistant, 100% acid proof, corrosion proof, and UV treated and made from virgin plastic and is part of the main body, which can be recycled. Self-Drain system. Salt resistive, Wave impact resistive, ON corrosion resistive. Resistance to Degradation: Extremely High.	
5		Technical Specifications (5.5.1.1) Sl. No. 6, Pg. 57	Minimum Reserve Buoyancy 25% under design loading conditions	8.1 SMD is 250 Kg/m2	
6		Technical Specifications (5.5.1.1) Sl. No. 7, Pg. 57	Draft loaded : 0.8 m No Load : 0.07 m	SMD Each module can safely support ~ 3200 kg.	
7		Technical Specifications (5.5.1.1) Sl.No. 8, Pg. 57	Frames Suitable material	SMD - Wall THICKNESS of the Dock - 10/12mm	
8		Technical Specifications (5.5.1.1) Sl. No. 9, Pg. 57	Connectors All fasteners / connectors shall be of same material, as of module / block for HDPE runs or suitable material.	SMD Docks are designed with interconnecting High Density rubber dog bones at the top and bottom with the help of a S9 316 stud. Aluminium Chest - Gravity die cast - Aluminium, Chemical composition as per BS1490 LM25. Heat treated as per T6 cycle. Hardness 95-110 BHN.	
9		Technical Specifications (5.5.1.1) Sl. No. 10, Pg. 57	Working Life 12 years, the life expectancy to be certified by the IR Class	Superior Jetty SMD is IR Work approved, and has working Life 12-15 years.	
10		Technical Specifications (5.5.1.1) Sl. No. 11, Pg. 57	Temperature Resistance Range -10° to 60° C	RJ SMDs Operating temperature is up to 60 degrees Celsius. (-10° to 60° C).	
11		Technical Specifications (5.5.1.1) Sl. No. 12, Pg. 57	Resistance to Impact, De-gradation, Chemicals, UV rays etc. - High	i. Wall Thickness of the Dock is Approx. 10 to 12MM. ii. PE Density = 0.940 g/Cm³ = High Density, iii. MFI = 3.2 to 4 g/10 min, iv. ESCR @ 100% Igepal = >900 Hrs v. UV stabilisation to meet UV-16 (wvl), (ASTM D 356) with a post-UV exposure result of 120-125 J/m	
12		Technical Specifications (5.5.1.1) Sl.No. 13, Pg. 57	Handrails / Railing : Fabricated out of IS 4923 grade Steel, 1.0 M high. Reflective stickers to be provided on all the four sides. -To ensure safety of passenger.	We also have option of Plastic Roto Moulded Stanchion with Endcap. And Aluminium Pipes with two different sizes of 42mmOD and 32mm OD. Height of handrail 1Mtr Used for the safety of the passengers.	

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Sr.No	Firm	Section No, Clause, Sub Clause No and Page No. of Tender	Tender clause description	Queries	Draft Reply to queries
13		Technical Specifications (5.5.1.1) Sl No. 14, Pg. 57	Anchoring : Suitable anchoring mooring should be provided for stability and alignment of the approach.	Anchoring shall be done site specific, based on the approval of design. 1. Aluminium Gangway with Piano Hinges 2. Aluminium Gangway with Aluminium handrail and carpet. 3. Extruded broad leaf profile Aluminium railing 4. Aluminium Piano hinges with SS rivet and nylon bush with accessories. 5. SS wire rope system with accessories	
14		Section II, Instructions to bidders (ITB), 4.3, Bank Solvency, Pg. 14	All bidders shall submit bank solvency certificate from a nationalized/scheduled bank in India for the amounts as mentioned in Section III Data Sheet. In case the bidder wishes to apply for multiple schedules, the amount of bank solvency should be cumulative. The solvency certificate submitted by the bidder shall not be older than one (01) year from the Bid Submission Last Date. In case bidder does not adhere to this criterion, his bids shall be considered non-responsive and shall not be considered for further evaluation process.	1. Solvency Certificate from a Nationalised Bank. Kerala Government issues A class FWD license to its contractors by collecting a certificate of work completed; successfully from any state PSU and we have the same (CAPABILITY CERTIFICATE ISSUED BY A GAZETTED OFFICER). In this model, we have a certificate from a PSU and an A class license is still having validity (upto 5 years from date of issuance). Can the same be accepted?	Tender conditions shall prevail
15		16.1.1 Qualification criteria for Experience, Page no: 26	For this purpose, the "Similar Works" means "Design, Supply, Erection, Testing and Commissioning of floating terminals/ jetties with gangways and all accessories etc. in rivers, sea, lakes, backwaters, ports & inland waterways."	2. Qualification in similar works: We have installed floating boat jetties in a few locations in Kerala (supporting Work Orders included). Also, we are having sufficient experience in building FRP boats for the Tourism Department of Kerala. These FRP boats are built with floating hull similar to pontoons. The stability is approved by KMB (Kerala Maritime Board's Engineers). Can the same be accepted?	Tender conditions shall prevail
16		9. TIMELINES & MILESTONES, Pg no: 60	The Contract duration for the entire scope of work for Design, Supply, Installation, Testing, Commissioning and Maintenance of Floating Pontoons and Gangway/ Walkway at Varkom, Cherthala (Thanneermukkom), Alappuzha & Kayamkulam. (i) Shall be 16 weeks from the date signing of agreement for supply and 36 months for maintenance of floating pontoons (ii) Defect Liability Period: After completion of the entire work and handing over to the Employer, the contractor will maintain the commissioned work for Maintenance period of 36 months. The Defect Liability period for the HDPE floating pontoons shall be for a period of 12 months from the date of commissioning of the Pontoons. The defects occurring against manufacturing defects, workmanship and serviceability of the various components, individually or compositely to entire work, shall be as per conditions.	3. DLP PERIOD: You've mentioned that the Operation Period is 24 months and AMC period is 36 months. The AMC payment as specified in the tender will be paid once every 6 months (6 payments in 6 instalments upto the 36th month). What is to be taken into our scope during the 24 months operation period that is not being done during the 36 month AMC?	Tender conditions shall prevail
17		Technical Specifications (5.5.1.1), Sl. No.2, Pg. 56	HDPE (High-density polyethylene as per IS 7328:2020). Material to be used should be B5500 (IS 7328-3B-BBB FXTA) or equivalent	A. Technical Specifications: (5.5.1.1.), Sl. No.2, Pg. 56 TENDER CONDITION: HDPE (High-density polyethylene as per IS 7328:2020); Material to be used should be B5500 (IS 7328-3B-BBB FXTA) or equivalent OUR SUGGESTION: Metallocene catalyst-based HDPE uses a single-site catalyst, leading to: • More uniform polymer chains (narrower molecular weight distribution). • Improved mechanical properties, such as: • Higher impact resistance. • Better ESCR (Environmental Stress Crack Resistance). • Excellent toughness and flexibility.	May refer reply at S.No-1


 18/11/2024
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18	M/s Easy Infra INC. Trivandrum - 695009, Kerala	Technical Specifications (5.5.1.1) Sl. No. 3, Pg. 57	Size & Weight of each module / block To be proposed by bidder	B. Technical Specifications: (5.5.1.1) Sl. No. 3, Pg. 57 TENDER CONDITION: Size & Weight of each module / block To be proposed by bidder. OUR SUGGESTION: Size of single dock - 3mtr x 2mtr x 0.4mtr (6 SQM), LWT Thickness Approx. 10 to 12MM, Weight of single dock 200kg ± 2kg	
19		Technical Specifications (5.5.1.1) Sl. No. 4, Pg. 57	Weight carrying capacity of module / block Minimum 325 kg/m ² or more.	C. Technical Specifications: (5.5.1.1) Sl. No. 4, Pg. 57 TENDER CONDITION: Weight carrying capacity of module / block Minimum 325 kg/m ² or more. OUR SUGGESTION: SMD Load capacity (Buoyancy) of each dock 2400kg for 6 SQMtr, Or 400 Kg/m ² Weight of single dock 200kg ± 2kg	
20		Technical Specifications (5.5.1.1) Sl. No. 5, Pg. 57	Deck / Top Cover Material shall be same as module Floor finish shall be Anti-skid and as approved by EIC	D. Technical Specifications: (5.5.1.1) Sl. No. 5, Pg. 57 TENDER CONDITION: Deck / Top Cover Material shall be same as module Floor finish shall be Anti-skid and as approved by EIC OUR SUGGESTION: Top surface CBIRO certified slip resistant, 100% skid proof, corrosion proof, and UV treated and made from virgin plastic and is part of the main body; which can be recycled Self-Drain system. Salt resistive, Wave impact resistive, Oil corrosion resistive. Resistance to Degradation: Extremely High.	
21		Technical Specifications (5.5.1.1) Sl. No. 6, Pg. 57	Minimum Reserve Buoyancy 25% under design loading conditions	E. Technical Specifications: (5.5.1.1) Sl. No. 6, Pg. 57 TENDER CONDITION: Minimum Reserve Buoyancy 25% under design loading conditions OUR SUGGESTION: S/ SMD is 250 Kg/m ²	
22		Technical Specifications (5.5.1.1) Sl. No. 7, Pg. 57	Draft Loaded :- 0.8 m No Load :- 0.07 m	F. Technical Specifications: (5.5.1.1) Sl. No. 7, Pg. 57 TENDER CONDITION: Draft Loaded :- 0.8 m No Load :- 0.07 m OUR SUGGESTION: SMD Each module can safely support ~2200 kg	
23		Technical Specifications (5.5.1.1) Sl.No. 14, Pg. 57	Anchoring : Suitable anchoring mooring should be provided for stability and alignment of the approach.	G. Technical Specifications: (5.5.1.1) Sl. No. 14, Pg. 57 TENDER CONDITION: Anchoring Suitable anchoring mooring should be provided for stability and alignment of the approach. OUR SUGGESTION: Anchoring shall be done site specific, based on the approval of design. Aluminium Gangway with Piano Hinges • Aluminium Gangway with Aluminium handrail and carpet. • Extruded broad leaf profile Aluminium railing. • Aluminium Strut with Piano hinge - Aluminium Piano hinges with SS rod and nylon bush with accessories. • All Aluminium structure is Marine Grade. • Structures used to connect the buoyancy modules are of a specified tensile strength.	

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24		Technical Specifications (5.5.1.1) Sl. No. 13, Pg. 57	Handrails / Railing: Fabricated out of IS 4923 grade Steel, 1.0 M high. Reflective stickers to be provided on all the four sides, ensure safety of passenger.	H. Technical Specifications: (5.5.1.1) Sl. No. 13, Pg. 57 TENDER CONDITION: Handrails / Railing Fabricated out of IS 4923 grade Steel, 1.0 M high. Reflective stickers to be provided on all the four sides - To ensure safety of passenger. OUR SUGGESTION: We also have option of Plastic Roto Moulded Transition with Endcap And Aluminium Pipes with two different sizes of 42mmOD and 32mm OD. Height of handrail 1Mu Used for the safety of the passengers.	
25		Technical Specifications (5.5.1.1) Sl. No. 12, Pg. 57	Resistance to Impact, Degradation, Chemicals, UV rays etc. - High	I. Technical Specifications: (5.5.1.1) Sl. No. 12, Pg. 57 TENDER CONDITION: Resistance to Impact, Degradation, Chemicals, UV rays etc. - High OUR SUGGESTION: Thickness Approx. 10 to 12MM, PE Density - 0.940 g/Cm ³ - High Density, MPI - 3.2 to 4 g/10 min, ESCR @ 100% Igepal - >900 Hrs UV Rating - >10	
26		Technical Specifications (5.5.1.1) Sl. No. 11, Pg. 57	Temperature Resistance Range -10° to 60° C	J. Technical Specifications: (5.5.1.1) Sl. No. 11, Pg. 57 TENDER CONDITION: Temperature Resistance Range -10° to 60° C OUR SUGGESTION: SMDs Operating temperature is up to 70 degrees Celsius (-10° to 70° C)	
27		Technical Specifications (5.5.1.1) Sl. No. 10, Pg. 57	Working Life 12 years, the life expectancy to be certified by the IR Class	K. Technical Specifications: (5.5.1.1) Sl. No. 10, Pg. 57 TENDER CONDITION: Working Life 12 years, the life expectancy to be certified by the IR Class OUR SUGGESTION: Superior Jetty SMD is IR Class approved, and has working Life 12-15 years.	
28		Technical Specifications (5.5.1.1) Sl. No. 9, Pg. 57	Connectors All fasteners / connectors shall be of same material, as of module / block for HDPE items or suitable material.	L. Technical Specifications: (5.5.1.1) Sl. No. 9, Pg. 57 TENDER CONDITION: Connectors All fasteners / connectors shall be of same material, as of module / block for HDPE items or suitable material. OUR SUGGESTION: SMD Docks are designed with interconnecting High Density rubber dog bones at the top and bottom with the help of a SS 316 stud. 10.9 high tensile strength MS nut bolts with marine grade chemical locking system are used to connect MS structure at site. With Aluminium Cleat - Gravity die cast - Aluminium, Chemical composition as per B31490 LM25. Heat-treated as per T6 cycle. Hardness 95-110 BHN.	
29		Technical Specifications (5.5.1.1) Sl. No. 8, Pg. 57	Frames Suitable material	M. Technical Specifications: (5.5.1.1) Sl. No. 8, Pg. 57 TENDER CONDITION: Frames Suitable material OUR SUGGESTION: SMD - LUG THICKNESS - 10/12mm	

Ashish Yadav

CAO

A Selva Kumar

Director (Kochi)

Burendra Singh

Chief Engineer (OHWA)