Dated: 17-06-2026

Pre- Bid Queries and Employer Responses.

Sub: "TENDER FOR SUPPLY, INSTALLATION & COMMISSIONING OF ONE (1) NO. NAVIGATIONAL BRIDGE SIMULATOR & ONE (1) NO. DREDGE MONITORING SIMULATOR FOR PROVIDING MARITIME SKILL DEVELOPMENT TRAINING AT MARITIME SKILL DEVELOPMENT CENTER, GUWAHATI, ASSAM".

Tender Ref No.: IWAI/GHY/SIMULATOR/1(93)/2026

Sl. No.	Section No. Clause, Sub clause No. and Page No. of the Tender.	Tender Clause Description	Query	Employer's Response
1.	Section VI (ToR) Clause 3 (Scope of Work) (Page 66-67)	Requirement: Supply of "marine-grade navigational and communication instruments (such as GPS, AIS, VHF)".	Clarification Sought: we kindly request that the requirement be explicitly amended to generic 'Software-emulated instruments,' while keeping the physical ship-handling console (wheel, throttles, joysticks) and visual system unchanged."	The requirement for marine-grade navigational and communication instruments forms an integral part of the simulator system for providing realistic training.
2.	Section VI (ToR) Clause 4.1.1 – Training Versatility (Page 68)	Requirement: "The system must support both in-house offline training and remote cloud-based training to allow for flexible scheduling and reduced travel requirements."	Clarification Sought: We kindly request if the cloud-based training requirement can be excluded from the current scope and considered as a future optional upgrade.	The system shall support both in-house offline and remote/cloud-based training as specified in the tender.

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			We will provide a fully functional in-house offline training system.	
3.	Section VI (ToR) Clause 4.1.3 & 4.1.4 (Page 69- 70)	Requirement: Hybrid integration with physical GPS, AIS, Echo sounder, Compass, Anemometer, and Inclinometer	Clarification Sought: Considering the total budget of 1.49 CR. We request that this requirement be excluded from the current scope of work. However, the simulator will retain the capability to integrate with physical equipment for future upgrades." We can provide emulated equipment that looks and functions like physical equipment. Kindly confirm whether this would be acceptable.	Hybrid integration capability with physical equipment is a mandatory requirement.
4.	Section VI (ToR) Clause 4.1.4 – Bathymetry and Topography	Requirement: "Must have 3D bathymetric and topographic database with option to integrate custom 3D survey charts."	Clarification Sought: Kindly confirm if the "option to integrate custom 3D survey charts" can be excluded from the current scope,	The simulator shall support integration of custom 3D survey charts as specified in the ToR.

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	Databases (Page 72)		Alternatively, a standard data exchange format may be mutually agreed upon by the Buyer and the Supplier.	
5.	Section VI (ToR) Bill of Materials – Navigational Bridge Simulator System – S/N 6 (Page 72)	Requirement: "Communication System: Tablet with headset for instructor – trainee and internal communication."	Clarification Sought: We request to accept telephone handsets at instructor and trainee stations as an alternative to tablet-based communication.	Accepted subject to compliance. Equivalent communication arrangements may be provided that instructor-trainee communication and internal communication functionalities specified in the tender are fully achieved.
6.	Section VI (ToR) Clause 4.1.3 (Page 69) & Bills of Materials (Page 73)	Requirement: "Functional, physical versions of a GPS, AIS (Class B), Echosounder, Compass, and VHF radio" must be supplied as actual marine-grade hardware.	Clarification Sought: We request to accept fully functional simulated versions of these instrument displays or as pop-up windows on the bridge console, given that they provide identical operational training value at a reasonable cost.	Functional physical versions as specified in the tender are required.
7.	Section VI (ToR) Bill of Materials –	Requirement: "4K Webcam – Field of View (FOV): 40°–72°"	Clarification Sought: Kindly confirm whether this refers to a monitor-	The webcam is intended for simulator room monitoring and training support

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	Nav-Com Instruments – Sl. No. 11 (Page 74)		mounted webcam or a CCTV camera intended for monitoring the simulator room. Also, please clarify whether it will be part of the integrated software module or a standalone monitoring application.	purposes. It may operate as part of the integrated training system or as a standalone application, provided the required functionality is achieved.
	Section B: Dredge Monitoring Simulator – Technical Specifications			
8.	Section VI (ToR) Clause 4.2 – Dredge Monitoring Simulator (Page 77) Clause 4.2.4 – Hybrid Integration (Page 78) Quick Technical Assessment Sheet – S/N 2 & 11 (Pages 81-82)	Requirement: "Simulator must support hybrid training modes, capable of interconnecting with actual marine sensors including GNSS, heading sensors, and inclinometers" "Capable of simulating hardware interfaces for GNSS, Heading Sensor, Inclinometer, ATG Sensor" "Capability for integration compatibility with external sensors (GNSS, heading, inclinometer, etc.) for hybrid training modes"	Clarification Sought: We kindly request that the hybrid training mode using actual sensors be excluded from the current scope, as the simulator will instead provide fully functional software-emulated sensor interfaces on the operator display, which is the standard for dredge simulators.	Integration compatibility with actual sensors and hybrid training capability are mandatory requirements.

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9.	Section VI (ToR) Clause 4.2.2 – Data Interfacing (Page 77) Clause 4.2.4 – Bathymetry Survey Charts (Page 80) Quick Technical Assessment Sheet – S/N 12 (Page 83)	Requirement: "Software must support custom bathymetric chart imports (e.g., S57 ENC, GeoTIFF, DXF)" "Capability to import bathymetry survey charts and maps in various formats such as KML, DXF, GeoTIFF, XYZ, S57, ENC, etc." "Custom Bathymetric Chart Import – Supports KML, DXF, GeoTIFF, XYZ, and S57 ENC formats"	Clarification Sought: Request if the custom bathymetric chart import feature can be excluded from the current scope and treated as a chargeable optional add-on for future requirements. Alternatively, a standard data exchange format may be mutually agreed upon by the Buyer and the Supplier.	The capability to import bathymetric survey charts in the formats specified in the tender is mandatory.
10.	Section VI (ToR) Quick Technical Assessment Sheet – S/N 3 (Page 82)	Requirement: Custom Cutter Suction Dredger (CSD) Models – capable to create user-defined dredger configurations to match real vessels as well as Inbuilt CSD Models for Inland Dredging.	Would it be acceptable to IWAI if colour-coded depth changes are displayed during dredging, without showing the actual depth values on the chart in real time?	The simulator shall provide actual depth information and functionality as specified in the tender requirements.
11.	Section VI (ToR) Quick Technical Assessment	Requirement: Anchor Handling – Provides complete anchor handling functions for dredging, including real-time calculation of the dredger's distance (anchor wire) from the dropped anchor.	This will be provided as a user interface screen at the trainee station, where the trainee can place anchors	Accepted. User-interface-based implementation is acceptable provided complete anchor handling

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	Sheet – S/N 11 (Page 82-83)		as required and connect ropes to the ladder. Please confirm whether this would be acceptable to IWAI.	functions, including real-time anchor wire distance calculations are available as specified in the tender.
12.	Section VI (ToR) Quick Technical Assessment Sheet – S/N 13 (Page 83)	Requirement: "Custom Dredging Matrix – Generate grid-based dredging matrices with user defined depth for live progress tracking."	Clarification Sought: Kindly clarify if the "user defined depth" refers to: (a) A fixed depth target set before exercise creation (acceptable), or (b) Real-time dynamic depth changes during runtime (requires additional development). Option (b) is not standard in dredge simulators.	User-defined depth refers to target depths configurable by the instructor/user for creation of dredging exercises and progress monitoring. The functionality required under the tender shall be provided.
13.	Section VI (ToR) Quick Technical Assessment Sheet – S/N 14 (Page 83)	Requirement: Comprehensive Export Options – Supports output of Matrix, XYZ, and volume reports for documentation, with compatibility to export data into various survey software platforms such as Hypack, HydroPro, and others for further evaluation.	We kindly request if the cloud-based training requirement can be excluded from the current scope	Comprehensive export options including Matrix, XYZ and volume reports with compatibility for survey software platforms as specified in the tender shall be provided.

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14.	Section VI (ToR) Quick Technical Assessment Sheet – S/N 19 (Page 84)	Requirement: Operator control console with dual joysticks/throttle for cutter suction dredger simulation (CSD movement).	We can provide two types of joysticks: (1) a spring-return joystick that returns to the home position when released, and (2) a joystick that remains at the selected operating position. Please confirm whether this would be acceptable to IWAI.	Either spring-return or position-hold joystick may be provided, provided the supplied controls fully support all cutter suction dredger simulation functions specified in the tender.