

GeM Bid no.: GEM/2025/B/6646370 dated 09-09-2025

**Document Title:** END-TO-END TURNKEY SOLUTIONS FOR DESIGN, SUPPLY, INTEGRATION, INSTALLATION, CALIBRATION, DEPLOYMENT AND RETRIEVAL OF DEEP-SEA MOORINGS IN THE INDIAN OCEAN

**Document type:** Pre-bid clarification

Sl. No.	Doc name, Clause No. & Page No.	Description	Bidder Observations/clarifications / Propositions	NCPOR Response
1.	Document – ITB	Clause 5.4.1 refers to payment terms being governed by GCC Clause 10, but the ITB does not specify the exact payment timeline.	Kindly clarify the specific payment timeline. We request NCPOR to consider including a clause stating <b>'Payment shall be made within 30 days from the date of invoice submission.'</b> This will help ensure timely financial processing and smooth execution of the contract."	Note that Payment shall be made within 30 days from the date of acceptance of the invoice. <b>Corrigendum 1.</b>
2.	Document - PQC	Bidder's Qualification Criteria	Fugro is qualified during the Expression of Interest (EOI) stage for this tender. Bidder understand that, In the current bid, the pre-qualified Bidder is not required to submit the PQC document again along with Technical offer.	The present tender is not linked to any previous tendering process. It shall be treated as a new tender; therefore, the bidder is required to submit all the PQC documents afresh along with the technical offer, in accordance with the tender terms.
3.	Document - PQC	Bidder's Qualification Criteria	Bidder understand that, the experience criteria documents including the experience of group companies submitted by the bidders during the EOI stage will be considered sufficient for meeting the Pre-Qualification Criteria (PQC)	The present tender is not linked to any previous tendering process. It shall be treated as a new tender; therefore, the bidder is required to submit all the PQC documents afresh along with the technical offer, in accordance with the tender terms.
4.	Document – Scope of Work	Redundant Sensors at Critical Depths	Please clarify whether the redundant sensors at critical depths are mandatory or optional. If optional, under what conditions can they be excluded?	Note that in the critical depth, redundant means mandatory data collection as per the NCPOR requirement. Make a note that penalty clauses are applicable in the case of loss of (no-collection) data and its quality (mentioned in the tender) at critical depths. Hence, the decision keeping redundant sensors at critical depth is entirely at the discretion of the bidder.
5.	Document – Scope of Work	Specific makes/models are listed for each sensor	Is there any flexibility in the make/model of sensors provided the technical specifications are met? Can equivalent or better models be proposed?	The bidder should use either the same instrument specified in the tender (Table 1 & 2) or a substantially equivalent instrument. In such a case, documentary proof showing equivalence should be attached. <b>Corrigendum 2.</b>
6.	Document – Scope of Work	Seabird SBE39 plus with Titanium housing	In the SoW, at 20m, the TP sensor SBE 39 is mentioned	Consider it as typographical error and same can be discarded (Remove SI No. 16 in the table 2, where it is

Sl. No.	Doc name, Clause No. & Page No.	Description	Bidder Observations/clarifications / Propositions	NCPOR Response
	Table 2: Deep (>4000 m) mooring		as redundant sensor as two times in the table (SI No 16 & 18) . Is it really required?	mentioned as T-P sensor Seabird SBE39 plus with Titanium housing). <b>Corrigendum 3.</b>
7.	Document – Scope of Work Table 2: Deep (>4000 m) mooring	Current-ADCP (100kHz) at 20 m from seabed	ADCP 100kHz Nortek Signature 100 is Recommended as Redundant system. Technically at this same depth both the equipment cannot co exist in the same mooring (large size, ops frequency etc).	Our focus is to obtain current profiles in the bottom 300–400 m above the seabed. This data falls under mandatory category. Therefore, bidder may decide the alignment of the ADCP to fulfill the project requirements.
8.	Document – Scope of Work Table 1: Surface mooring	1200 Hydrophone for mammal G4-AL /icListen HF ALTA (with battery packs & data logger) 1 1200 Hydrophone for seismic activity	Clarity on desired frequency ranges and interval for recording Marine mammals and Siesmic activities Data processing of the acoustic records	<p><b>1. Hydrophone for Seismology Purpose</b></p> <p>These are Low-frequency energy (earthquakes, microseisms + baleen whales).</p> <p><b>Sampling rate:</b> 250 Hz (continuous sampling).</p> <p><b>Deployment duration:</b> Up to 1 year (efficient storage/power). Captures seismic signals + baleen whale calls (&lt;120 Hz).</p> <p><b>2. Hydrophone for Marine Mammal Monitoring</b></p> <p>Higher-frequency cetacean signals.</p> <p>Baleen whales (&lt;120 Hz) covered at low rate.</p> <p>Sperm whales (5–20 kHz).</p> <p>Beaked whales (~200 kHz clicks).</p> <ul style="list-style-type: none"> <li><b>Sampling rate:</b> ~48 kHz for sperm whales.</li> <li><b>Duty cycling:</b> 2-3 min every 10-15 min (i.e., 2 min <b>ON</b>, 8 min <b>OFF</b>) to conserve storage/power.</li> </ul>
9.	Document – STC; 9. Data Policy for the rest of the sensors	All the recorded data (hourly) should be transmitted to NCPOR and /or shore station in real-time through satellite communication and should also be saved in the flash memory onboard for redundancy.	Only the parameters measured by the Wave Buoy and the sensors integrated on it will be transmitted in near realtime via satellite. Other equipment in the mooring line (for both surface and deep moorings) will collect and store the data in the internal memory of each equipment.	True.

Sl. No.	Doc name, Clause No. & Page No.	Description	Bidder Observations/clarifications / Propositions	NCPOR Response
10.	Document – Payment Terms	Milestone III: Fifteen days of telemetry data can be considered as proof of the successful deployment.	We would like to clarify that the telemetry data transmitted post-deployment will be limited to parameters from the metocean buoy and surface sensors.	True.
11.	Document – STC Page 1	NCPOR will be the owner of all instruments. The vendor must hand over all instruments after completing all stages of the mooring operations	Bidder requests that NCPOR should take ownership of the equipment after the delivery of equipment in India.	NCPOR shall assume full ownership of the equipment upon its successful delivery and completion of joint inspection at NCPOR premises, marking the formal commencement of the project post-award. The joint inspection shall be conducted in the presence of both NCPOR and the Bidder/Vendor representatives to ensure transparency and mutual agreement on the equipment's condition. Post-inspection, the equipment shall be stored in a secure, access-controlled warehouse managed by NCPOR with the warehouse/containers key held by the bidder if required. The bidder will bear full responsibility for the instruments during transportation to any port of opportunity in India or Mauritius as well as during deployment and retrieval.
12.	Document – STC Page 1	The vendor should purchase new instruments and hand them over to NCPOR along with original bills and invoices.	Bidder understand that the bill of entry along with the landing costs is required to be submitted to NCPOR after delivery of instruments and equipment.	True.