

NATIONAL CENTRE FOR POLAR & OCEAN RESEARCH  
(Ministry of Earth Sciences, Govt. Of India)  
Headland Sada, Vasco-da-Gama GOA 403 804, INDIA  
Tel: 91- (0) 832 2525571, 91- (0) 832 2525573  
Email: warlu62@ncpor.res.in Website: [www.ncpor.res.in](http://www.ncpor.res.in)

**CORRIGENDUM**

**GLOBAL TENDER NO: NCPOR/P&S/ORVSC-0219/ GT-01.**

The competent authority has decided to **extend the tender due date upto 25.03.2022 17.00 HRS IST** of the Global Tender No. NCPOR/P&S/ORVSC-0219/ GT-01 for **Supply, Installation & Commissioning of Multibeam Echosounder Onboard ORV Sagar Kanya** published in the newspapers.

Bid Opening Date: 28-03-2022 10.00 HRS IST.

Please visit our website <http://www.ncpor.res.in> for details of tender documents.

Sd/-  
For & on behalf of NCPOR



**Corrigendum to Tender no. NCPOR/P&S/ORVSC-0219/GT-01 for Supply, Installation & Commissioning of Multibeam Echosounder onboard ORV Sagar Kanya**

S/N	CLAUSE NO./ TENDER PAGE NO.	TENDER CLAUSE	AMENDEDMENT/ CLARIFICATION
1.	Section VII.2 / pg no. 107 and Form 3.4 / pg no. 128	Depth Range: 7000 m	May note: Depth range 7000m is operation depth.
2.	Section VII.4 / pg no. 107 and Form 3.4 / pg no. 128	Resolution: ~ 1 deg x 1.5 deg	To add following options in addition to the original resolution in tender: Resolution: 1.5 deg x 1.5 deg and 1 deg x 2 deg.
3.	Section VII.14 / pg no. 107 and Form 3.14 / pg no. 129	DGPS: Suitable DGPS system with SAT based corrections with 3 years signal subscription to be provided along with Multibeam System.	To add in addition to the original clause: Accuracy for SAT based corrections should be minimum 1.5m or better.
4.	Section VII.17 / pg no. 107 and Form 3.17 / pg no. 129	Repeaters (5nos): Repeaters should have integrated display of Survey planning, Electronic Nav charts, Online bathymetry monitoring etc. 1 Helmsman display for Wheelhouse and 4 displays for other labs viz. Dry lab (P), Dry lab (S), Winch Control Room and Chief Sci room. Displays of repeaters should be full HD and of 19".	May note: Repeaters are only for display.
5.	Section VII.18 / pg no. 107 and Form 3.18 / pg no. 130	Installation & Commissioning: Installation under expert supervision of OEM/ equipment supplier with special consideration of the sophisticated hydro-acoustic and constructional requirements of the vessel. Dimensional survey to identify the installation offsets of motion sensor, DGPS and transducers to be carried out. Prior installation, the manufacturer should conduct noise tests, non-destructive tests, etc. to ensure optimum performance of the system. The manufacturer shall provide detailed installation procedure, locations of the transducer and other sensors as per vessel lay out charts. Installation and commissioning to be carried out at	May note the following:  OEM engineer service required as per tender terms. For first bathy survey support after installation and successful Sea Acceptance Test (SAT), OEM or OEM trained engineer is acceptable.  Successful bidder shall be required to carry out the noise test at their cost to ensure the satisfactory performance of the equipment. NCPOR shall facilitate the vessel time for carrying out the noise test. The date/time for carrying out the test would be mutually decided by the NCPOR and L1 bidder. The location



		<p>any drydock yard to be identified by NCPOR. The drydock will be in India or yards of nearby countries (e.g. Sri Lanka, Singapore, Malaysia, UAE etc )</p> <p>OEM shall supervise the installation with engineering/ logistics support from the yard/ NCPOR. The installation shall be done at a qualified shipyard arranged by NCPOR. Time duration required may be indicated in offer for STW (Setting to Work- including cable installation, plug mounting, mounting of electronic units onboard and other miscellaneous work), HAT (Harbour Acceptance Test) and SAT (Sea Acceptance Test). The cost for travel, accommodation and other expenses for OEM personnel may also be included in the offer. Detailed Scope of Service and support &amp; infrastructure facilities required at yard to be provided. The system is to be installed at existing transducer location (SB 3012 system, M/s Elac, Germany). Frame sizes of existing transducers: Projector assembly: 4.1m x 1.1m; Hydrophone assembly 4.2m x 1.1m.</p>	<p>may be either off Goa or off Chennai as per the availability of the vessel then.</p> <p>Drydock shall be carried out in an Indian Shipyard.</p> <p>All the prices for each and every items including Tax, custom duty etc. shall be considered for price evaluation as per tender terms.</p> <p>In view of the options for different resolutions, the limitation in the tender of the frame size may be preferred but minor size variations may be acceptable.</p> <p>As per tender terms, the Yard shall carry out the jobs under the supervision of OEM engineer.</p>
6.	Section VII.19 / pg no. 108 and Form 3.19 / pg no. 131	<p>Hardware &amp; Software:</p> <p>Acquisition Computer with proven software of equipment OEM or other reputed software.</p> <p>Realtime data display.</p> <p>Nav Computer: Electronic Navigation Charts (ENC) for Indian EEZ.</p> <p>Post-processing hardware and software: 3 units of workstations with dual display (one of these workstations will be installed at NCPOR and other two onboard), latest workstation with min 32 GB RAM, 4 TB storage, latest windows</p>	<p>May note:</p> <p>Complete software for data acquisition and Data processing is required. New System should be able to provide out-put data in the format compatible to EIVA software as per the tender term.</p>



		OS. Complete details of hardware and software to be provided in the offer. Data output format to be compatible with EIVA software and freeware MB system (available with NCPOR)	
7.	Section VII.24 / pg no. 108 and Form 3.24 / pg no. 132	First Bathy Survey support: OEM or OEM authorized expert engineer(s) to sail onboard for confirming system performance and training / acclimatization to our personnel(minimum 20nos) in one-month regular survey cruise anytime within first one year period after sea-acceptance/ trials in seas around India.	May note:  Additional column for the separate price for first bathy support has been facilitated in price bid format.  Revised Financial Bid format is enclosed at Annexure-I is to be followed.
8.	Section VII.26 / pg no. 108 and Form 3.26 / pg no. 133	Integration of spare existing parts (available onboard) to the new Multibeam system for redundancy: Software: Multibeam System EIVA Software:- NaviPac Pro Integrated Navigation Software, including: Online eventing software and 3D Visualisation capability- 1 no NaviEdit Pro: Data Editing software.MS SQL Lite- 2 nos. NaviModel Producer with NaviPlot Full NaviModel version for Visualisation & Post-processing- 2 nos. Hardware: Caliber # 24 URF 19"rack-mountable Xeon Workstation for Navigation 1 x Uni-processor workstation board featuring Intel C246 chipset 1 x Intel Xeon processor E-2246G (6 cores)   12 threads   3.60 GHz base 4.80 GHz max. 2 x 16 GB [32 GB] DDR4 ECC unbuffered memory SSV: Surface Sound Velocity sensor- 2 nos. Make- Valeport Model- MODUS SVS SVP: Sound Velocity Profiler- 2	May note the following:  Compliance is required as per tender. The new MBES system should be a standalone with latest workstations as required. Compatibility is being only asked for peripheral equipments for redundancy only.  Existing Sound Velocity probe & Motion sensor IXSEA to be integrated with new system for redundancy. Details (make & model) are provided in tender document. (This is in addition to the new units to be provided as part of new system)  Technical details of existing sensors and software are enclosed herewith at Annexure-II.  Surface SV to be hull-through installation in the existing setup. Inner dia of the existing hull through pipe is 100mm (Valeport PN16 100mm ball valve with 3.1b certification).  Version information of software are provided at Annexure-II.



		nos. Make-Valeport Model-MIDAS SVP Motion sensor Make- IXSEA Oceano Model-Octans.	
9.	6.2.3 / pg no. 27	Exchange Rate Variation: Subject to provisions of clause 6.2.1 above, where final prices are quoted in Indian Rupees (INR) involving substantial imports content (> 25%), and the deliveries exceed 12 months, Bidder may, if they so desire, stipulate Foreign Exchange Rate Variation (ERV) clause.....	May note: Quotes in foreign exchange are acceptable from foreign bidders.
10.	12.4.2.2 / pg no. 39	Evaluation of offers:  ..... The offers would be compared based on the principle of the total outgo from Procuring Entity's pockets, including all applicable taxes and duties (Customs duty, IGST, and GST Cess). For bids with Letter of Credit (LC) payment, the likely LC charges (as ascertained from the Procuring Entity's bankers) should also be loaded thereon.	May note: LC payment to local suppliers is not possible. LC payment is only for foreign suppliers.
11.	6.1.3.(b) / pg no. 24	Foreign Goods: (ii) Wherever applicable, the amount of customs duty on the Goods to be imported.	May note: Custom duty exemption certificate can be issued from NCPOR subject to proper documentation by the vendor in case of local suppliers who are importing from their principals. The applicable custom duty is 5%.
12.	Critical dates	Bid submission end date: 14.03.2022 time: 17.00 hrs IST	Amended as: Bid submission closing date shall be extended upto two weeks from publication of the corrigendum. Enclosed at Annexure-III
13.	Multibeam GA plan along with the existing blister/fairing used for 3012 transducers.		
14.	Section VII Tech Specifications / pg no. 108	Sl no. 29 : Spares & consumables for one year.	Spares and consumables for TWO years are to be part of supply.



# Procurement of MULTIBEAM ECHOSOUNDER

Annexure

## PRICE SCHEDULE FORM

### PRICE SCHEDULE FORM FOR GOODS BEING OFFERED FROM INDIA

The rates may be quoted as per given format below.

Name of the Bidder \_\_\_\_\_

Tender No. \_\_\_\_\_

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SI No.	Item Description with HSN Code	Country of Origin	Unit	Qty	Unit rate Ex-works, Ex-ware House, Ex-Show Room, of the shelf price inclusive of all taxes already paid	Total price Ex-works, Ex-ware House, Show Room, of the shelf price inclusive of all taxes already paid(5x6)	GST/IGST & other taxes payable, if contract is awarded	Packing & forwarded upto station of dispatch if any	Charges for inland transportation, insurance upto lab, inatt. By air/road/rail/or so	Installation & Commissioning and Sea Trials	Training/ first bathy support	Cost of Spares and consumables For 2 years	Total Price

Note:

Total Bid price in INR \_\_\_\_\_

In words \_\_\_\_\_

Indian agents/ Authorised dealer's name & address \_\_\_\_\_

Signature of Bidder \_\_\_\_\_

Name \_\_\_\_\_

Business Address \_\_\_\_\_

The cost of optional items like Critical spares for future maintenance shall be indicated in a separate annexure to the price bid.



**Details of sensors of existing MBES onboard ORV Sagar Kanya**

**Surface Sound Velocity Sensor**

Make: Valeport Limited

Model: MODUS SVS

Through-hull sound velocity sensor

**Sound Velocity Profiler**

Make: Valeport Limited

Model: MIDAS SVP

Sound Velocity Profiler

**Motion Sensor**

Make: IXBLUE

Product: IXSEA-Oceano

Model: Octans (March 2004)

**Version of existing EIVA software is as below:**

**EIVA NaviPac**

Product version: 4.5.3

Application version: 4.5.3.5474 (rev 71010)

Release date: 2021-05-07

**EIVA NaviEdit JobPlanner**

Product version: 8.6.0.7

Application version: 8.6.0.4608

Release date: 2021-03-29

**EIVA NaviModel Producer**

Product version: 4.5.2

Application version: 4.5.2.4648 (rev 70184)

Release date: 2021-03-31

**Naviplot 2.5**

Version: 2.5.0.0 (built 2016-11-03)



# PERMANENT FENDER

Annexure





