

राष्ट्रीय अंटार्कटिक एवं  
समुद्री अनुसंधान केन्द्र  
पृथ्वी विज्ञान मंत्रालय  
भारत सरकार)  
हेड लैण्ड सडा, वास्को डा गामा  
गोवा- ४०३ ८०४ भारत



**NATIONAL CENTRE FOR  
ANTARCTIC & OCEAN RESEARCH**

Ministry of Earth Sciences  
Government of India)  
Headland Sada, Vasco da Gama  
Goa - 403 804 - INDIA

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**PROCUREMENT SECTION**

**FOREIGN ENQUIRY**

**Ref. No.: SOE-50401**  
**Date: 02.01.2015**  
**Due Date: 21.01.2015**

Dear Sir,

You are requested to send your offer for the following items as per the terms and conditions mentioned below.

<b>SL. NO.</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>
<b>1</b>	Temperature, Salinity and pressure sensor SBE 37-IMP-ODO model- Conductivity, Temperature & Pressure Recorder with Integrated SBE 63 Optical Dissolved Oxygen sensor: With serial interface, Internal Memory, Internal Pump, Inductive Modem, includes mooring clamp, 8 MB flash memory, external power input capability (power plus serial on connector), lithium battery (non-hazardous), Seasoft software and complete documentation, Accessories and spares and Five years warranty. Polar deployment conditions. <ul style="list-style-type: none"><li>• Temperature Sensor: Accuracy +/-0.002°C:-5 to 35°C Range.</li><li>• Conductivity Sensor: Accuracy +/-0.0003 S/m, Range 0-70 S/m</li><li>• Optical DO sensor: 120% surface saturation in all waters; ± 3µM/kg accuracy</li><li>• Protective cage/frame</li><li>• Pressure strain gauge sensor: ± 0.1% for full range; upto 7000 m depth</li><li>• Spare batteries</li><li>• Yellow Top battery holders</li><li>• AF24173 Anti-Foulant Devices</li><li>• Spare data/power interface cable</li><li>• Storm shipping case for 3 sensors</li></ul>	<b>3</b>
<b>For details see annexure attached</b>		

**Your offer should contain the following information:**

1. Submit your quotation on F.O.B/C.I.F basis.
2. Delivery Period:
3. Validity of quotation:
4. Quantity/Trade discounts, if any. :
5. Guarantee/Warranty of the product:
6. Taxes applicable (VAT if any):
7. Enclose brochure/leaflet – Specification:
8. **No advance payment** will be made. Payment by irrevocable letter of credit after supply and acceptance of the equipment by NCAOR. The payment will be authorized after submission

- of a Bank Guarantee for 10% value of the order towards warranty guarantee. The **performance Bank Guarantee** should be furnished within 15 days from the date of placement of order from a reputed bank (scheduled bank in India or foreign bank operating in India) valid till 60 days after the warranty period.
9. Overwriting and corrections should be attested properly. The quotation should be complete in all respects and should be duly signed. **Incomplete and unsigned quotation will not be considered at all. Quotation should be submitted as per NCAOR terms and conditions.**
  10. All relevant technical literature pertain to items quoted **with full specifications** (Drawing, if any), information about the products quoted, including brochures if any should accompany the quotation.
  11. A list of **reputed clients** to whom the firm has supplied similar items to be furnished along-with the quotation.
  12. Quotation should be **valid for a period of 90 days** and the period of delivery required should also be clearly indicated. If the supplier fails to deliver the goods within the time to be agreed upon, for delayed deliveries and for delays in installation (wherever applicable) NCAOR reserves the right to **levy liquidated damages** at the rate of 0.5% per week or part their of upto maximum of 5%.
  13. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract. The **warranty period** and the kind of **post-warranty support** should be indicated.
  14. Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.
  15. Both **FOB and CIF prices upto Indian port of entry** namely Goa should be indicated. However quotation should contain item-wise prices including total ex-works price and cost of packing forwarding, approx. cost of air-freight charges for delivery up to Goa, India.
  16. A technical Committee constituted by the Director will assess the product supplied/installed for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the supply will not be processed for payment till proper replacements are provided.
  17. Suppliers should clearly define the mechanisms of **post-warranty** maintenance or support. Supplier should undertake to support the product for a minimum period of 5 years (post-warranty). Post Warranty, AMC charges for a period of 3 years (annual bases) should also be quoted separately in the quotation.
  18. Two sets of operational, service/troubleshooting manuals and diagrams to be supplied.

Please enclose documentary proof such as latest purchase order copies etc., to substantiate the reasonability of price. **Also confirm that the “the rates quoted by you are reasonable and lowest charged to any of your customer”.**

**Director, NCAOR reserves the right to reject any quotation received without assigning any reasons.**

**Yours faithfully**

**Executive (Procurement)  
For and on behalf of Director, NCAOR**

**TENDER ACCEPTANCE UNDERTAKING**

To

The Director,  
**NCAOR, Headland Sada,**  
Vasco – Goa.

Having examined the tender document for **SUPPLY OF TEMPERATURE SALINITY AND PRESSURE SENSOR**, we the undersigned hereby offer to supply the equipment in conformity with all specifications and conditions set out in the tender document.

We enclosed all the relevant documents as per the tender.

We understand that you are not bound to accept the lowest or any tender received.

**Date :**

**(Signature of Bidder)**

**Name :**

**Designation :**

Seal

## Specifications of Temperature Salinity and Pressure Sensor are given below.

Sr. No.	Equipment	Specifications	Quantity
1	SBE 37-IMP-ODO MicroCAT C-T-ODO (P) Recorder	<p><b>Conductivity (S/m):</b> 0-7 range; <math>\pm 0.0003</math> accuracy; 0.0003/month stability; 0.00001 resolution</p> <p><b>Temperature (°C):</b> -5 to 45 range; <math>\pm 0.002</math> accuracy; 0.0002/month stability; 0.0001 resolution</p> <p><b>Pressure Strain gauge (37IMP.x8000x):</b> 7000 m range; <math>\pm 0.1\%</math> accuracy; <math>\pm 0.05\%</math>/month stability; 0.002% resolution</p> <p>Optical Dissolved Oxygen Sensor (37IMP.xx004): 120% surface saturation range, <math>\pm 3 \mu\text{mol/kg}</math> accuracy, <math>&lt; 1 \mu\text{mol/kg}/100,000</math> samples drift, 0.2<math>\mu\text{mol/kg}</math> resolution.</p> <p><b>Memory:</b> 64 Mb non-volatile FLASH memory; Real-Time Clock:32,768 Hz; accurate to <math>\pm 1</math> minute/year</p> <p><b>Internal Batteries:</b> Lithium batteries; Additional Power Supply/batteries for internal pump:9-28 VDC</p> <p>Battery Holder</p> <p>Battery Endurance: For&gt;12 months including operation of all sensors and pump.</p> <p><b>Should include Inductive Modem and Mooring clamp</b> for jacketed wire size 10 mm diameter</p> <p><b>Deployment period: &gt;12 months.</b></p> <p><b>Titanium housing material (37IMP.2x00x)</b> for 7000 m depth rating. Mooring frame to protect the sensors.</p> <p>SOFTWARE: Windows 2000/XP or higher version software package, which includes programs for communication and data retrieval, real-time data acquisition and display, and data processing (filtering, aligning, averaging) and plotting of CTD and auxiliary sensor data and derived variables.</p> <p>Should also include tool kit for maintenance &amp; complete user manual and any other essential accessories for inline mooring.</p> <p>Warranty: 5 years.</p>	<ul style="list-style-type: none"> <li>• 3 numbers</li> </ul>
2	801542	<ul style="list-style-type: none"> <li>• AF24173 Anti-Foulant Device pair</li> </ul>	<ul style="list-style-type: none"> <li>• 3 numbers</li> </ul>
3	801863	<ul style="list-style-type: none"> <li>• Spare Battery holder (yellow top)</li> </ul>	<ul style="list-style-type: none"> <li>• 3 numbers</li> </ul>
4	50441	<ul style="list-style-type: none"> <li>• Spare Battery pack kit for lithium batteries</li> </ul>	<ul style="list-style-type: none"> <li>• 2 packs</li> </ul>
5	801836	<ul style="list-style-type: none"> <li>• 37-IMP-ODO-Internal Data Cable</li> </ul>	<ul style="list-style-type: none"> <li>• 3</li> </ul>
6	37IMP-41	<ul style="list-style-type: none"> <li>• Storm Shipping Case</li> </ul>	<ul style="list-style-type: none"> <li>• 1</li> </ul>

**Technical Compliance statement for Temperature Salinity and Pressure Sensor**

Sr. No.	Description		COMPLIED/ NOT COMPLIED	EXTRA FEATURES
	TECHNICAL COMPLIANCE FOR "TEMPERATURE SALINITY AND PRESSURE SENSOR.		<b>Quantity</b>	
1	SBE 37-IMP-ODO MicroCAT C-T-ODO (P) Recorder	<p><b>Conductivity (S/m):</b> 0-7 range; ±0.0003 accuracy; 0.0003/month stability; 0.00001 resolution</p> <p><b>Temperature (°C):</b>-5 to 45 range; ±0.002 accuracy; 0.0002/month stability; 0.0001 resolution</p> <p><b>Pressure Strain gauge (37IMP.x8000x):</b> 7000 m range; ±0.1% accuracy; ±0.05%/month stability; 0.002% resolution</p> <p>Optical Dissolved Oxygen Sensor (37IMP.xx004): 120% surface saturation range, ± 3 µmol/kg accuracy, &lt; 1 µmol/kg/ 100,000 samples drift, 0.2µmol/kg resolution.</p> <p><b>Memory:</b> 64 Mb non-volatile FLASH memory; Real-Time Clock:32,768 Hz; accurate to ±1 minute/year</p> <p><b>Internal Batteries:</b> Lithium batteries; Additional Power Supply/batteries for internal pump:9-28 VDC</p> <p>Battery Holder</p> <p>Battery Endurance: For&gt;12 months including operation of all sensors and pump.</p> <p><b>Should include Inductive Modem and Mooring clamp</b> for jacketed wire size 10 mm diameter</p> <p><b>Deployment period: &gt;12 months.</b></p> <p><b>Titanium housing material (37IMP.2x00x)</b> for 7000 m depth rating. Mooring frame to protect the sensors.</p> <p>SOFTWARE: Windows 2000/XP or higher version software package, which includes programs for communication and data retrieval, real-time data acquisition and display, and data processing (filtering, aligning, averaging) and plotting of CTD and auxiliary sensor data and derived variables.</p> <p>Should also include tool kit for maintenance &amp; complete user manual and any other essential accessories for inline mooring.</p> <p>Warranty: 5 years.</p>	<ul style="list-style-type: none"> <li>• 3 numbers</li> </ul>	
2	801542	<ul style="list-style-type: none"> <li>• AF24173 Anti-Foulant Device pair</li> </ul>	<ul style="list-style-type: none"> <li>• 3 numbers</li> </ul>	
3	801863	<ul style="list-style-type: none"> <li>• Spare Battery holder (yellow top)</li> </ul>	<ul style="list-style-type: none"> <li>• 3 numbers</li> </ul>	
4	50441	<ul style="list-style-type: none"> <li>• Spare Battery pack kit for lithium batteries</li> </ul>	<ul style="list-style-type: none"> <li>• 2 packs</li> </ul>	
5	801836	<ul style="list-style-type: none"> <li>• 37-IMP-ODO-Internal Data Cable</li> </ul>	<ul style="list-style-type: none"> <li>• 3</li> </ul>	
6	37IMP-4I	<ul style="list-style-type: none"> <li>• Storm Shipping Case</li> </ul>	<ul style="list-style-type: none"> <li>• 1</li> </ul>	

**Signature with seal**

**COMMERCIAL COMPLIANCE STATEMENT FOR TEMPERATURE SALINITY AND PRESSURE SENSOR**

Sr. No.	COMMERCIAL COMPLIANCE FOR "TEMPERATURE SALINITY AND PRESSURE SENSOR"	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
1	A list of <b>reputed clients</b> to whom the firm has supplied similar items to be furnished along-with the quotation.		
2	In the Bid, the Bidder should furnish the Name and address of the Purchasers placed orders on similar equipment with order No, date, Description and quantity, Date of Supply alongwith Contact person Telephone No, Fax No, and e mail address of Purchaser.		
3	The Bidder should enclose copies of Purchase Orders.		
4	Quotation should be <b>valid for a period of 90 days</b> from the date of tender opening and the period of delivery required should also be clearly indicated.		
5	The <b>warranty period</b> and the kind of <b>post-warranty support</b> should be indicated. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract.		
6	Please <b>specify</b> country of origin and currency in which rates are quoted.		
7	<b>The order acknowledgement</b> should be from the principals and if the Indian Agent is empowered to quote and to furnish order acknowledgement, a copy of agreement entered by you with the Indian Agent to be furnished.		
8	<b>Compliance Statement:</b> Equipments point-by-point comparison/compliance statement with <b>technical specification</b> , should be enclosed along with your tender as well as any other extra features of the equipment be shown separately therein and also <b>compliance statement for all commercial terms</b> .		
9	NCAOR is not entitled to issue form " <b>C/D</b> ". No Sales Tax or any other Tax shall be payable by us unless payment of the same is specifically mentioned by the suppliers in their bids and same is legally leviable.		
10	To avail duty concessions i.e. <b>Excise Duty</b> as per Govt. notification 10/97 & <b>Custom Duty</b> as per Govt. notification 51/96, NCAOR will provide exemption certificates. Hence, the rates should be split into basic cost and Excise Duty if any.		
11	<b>Bid should contain</b> all details and specifications of the equipment offered, delivery schedule, warranty, payment term, installation, training, post-warranty, user-list, service support and details of the price(s) of the item(s) quoted in the bid.		
12	F.O.R GOA price should be indicated. However tender should contain item-wise prices including total ex-works price, Excise Duty, VAT/Taxes, Charges for Inland Transportation, Insurance and other local services required for the delivering the goods on F.O.R GOA.		
13	In case of imported stores both <b>FOB and CIF prices upto Indian port of entry</b> namely Goa and for indigenous stores on F.O.R. destination basis should be indicated. However tender should contain item-wise prices including total ex-works price, overall weight & dimensions of the equipment and cost of packing forwarding, approx. cost of air-freight charges for delivery up to Goa, India.		
14	The firm to the full satisfaction of the NCAOR should carry out the <b>installation and commissioning</b> at the NCAOR premises and the time-frame for the whole process should be specified in the technical bid.		
15	A technical Committee constituted by the Director will assess the product supplied/installed for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the supply will not be processed for payment till proper replacements are provided.		
16	<b>No advance payment</b> will be made. Payment for indigenous stores shall be made within 30 days from the date of receipt, acceptance		

	and satisfactory installation of equipment and incase of imported stores by <b>irrevocable letter of credit</b> and on submission of Performance Bank Guarantee for 10%value of Order value towards warranty guarantee.		
17	Suppliers should clearly define the mechanisms of <b>post-warranty</b> maintenance or support. Supplier should undertake to support the product for a minimum period of 5 years (post-warranty). Post Warranty, AMC charges for a period of 3 years (annual bases) should also be quoted separately in the financial bid.		
18	If the quoted item needs to be imported then the undertaking needs to be produced from the original supplier stating that Post Warranty support for a minimum period of 7 years will be provided from the original supplier to NCAOR on LC Terms of payment. If payment needs to be made and <b>spares will be supplied on the lowest rate quoted</b> than to any other customer with providing the sales price list to the NCAOR periodically as and when increase/decrease in prices.		
19	Tender acceptance undertaking as per our enquiry submitted		
20	Two sets of operational, service/troubleshooting manuals and diagrams to be supplied with “TEMPERATURE SALINITY AND PRESSURE SENSOR”		
21	<b>The submission of tender</b> shall be deemed to be an admission on the part of the tenderer, had fully acquainted with the specifications, drawings etc. and no claim other than what stated in the tender shall be paid in the event of award of Purchase Order.		
22	Expenditure involved towards any extra materials required for labour involved for successful installation of the equipment, if not quoted for, would have to be borne by the tenderer.		
23	<b>Acceptance of this tender</b> form and submission of the quote within the stipulated time would be treated as: <ul style="list-style-type: none"> <li>• The tenderer has understood all requirements as described in our Tender document.</li> <li>• Acceptance to provide/establish all the facilities mentioned in our tender without any price escalation, if the tenderer finds it necessary to add any hardware or software or any other materials during implementation.</li> <li>• Agreeing to execute order to the satisfaction of NCAOR or its authorized representatives within the stipulated time.</li> </ul>		
24	<b>Training /Installation charges</b> should be clearly indicated including the scope of training.		
25	Tender should clearly define the <b>infrastructure facilities required</b> for installation of the equipment.		

**Signature with seal**