

# *TENDER DOCUMENT FOR*



## *SUPPLY OF INTEGRATED PURE AND ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS*

*NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH*

*(Ministry of Earth Sciences, Govt. Of India)*

*Headland Sada, Vasco-da-Gama*

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**NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH**  
 (Ministry of Earth Sciences, Govt. Of India),  
 HEADLAND SADA, VASCO-DA-GAMA,  
 GOA - 403 804

**TENDER NO. NCAOR/LAB-2288/PT-14.**  
**TENDER FOR SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION**  
**SYSTEM FOR TRACE METAL ANALYSIS**

1.	<b>SUPPLY OF INTEGRATED PURE &amp; ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS</b> <b>Specifications:</b> <b>Quantity</b>	As per Annexure-I 01 No.
2.	General Terms and Conditions	As per Annexure II
3.	Cost of Tender Documents (In Person)	` 1000.00
4.	Cost of Tender Documents (By Post)	` 1050.00
5.	EMD	<b>Tender documents can be downloaded by tenderers from NCAOR website. In case a tenderer is using the documents and forms downloaded from the website, the cost of tender documents shall be sent in the form of Bank Draft in a separate envelope along with the tender.</b>  <b>Indian Bidders</b> shall submit <b>EMD</b> along with their tender, either by DD drawn in favor of NCAOR, for a sum of ` <b>35000/-</b> (Rupees Thirty Five Thousand only) payable at Vasco-da-Gama only. <b>Or</b> <b>In the form of a bank guarantee</b> for a sum ` <b>35000/-</b> (Rupees Thirty Five Thousand only)
6.	Last Date and time for issue of tender documents	<b>MONDAY</b> 03.08.2015 1600Hrs (IST)
7.	Last Date and time for submission of sealed quotations	<b>TUESDAY</b> 04.08.2015 1700Hrs (IST)
8.	Date and time of tender opening	<b>WEDNESDAY</b> 05.08.2015 1000Hrs (IST)

**SPECIFICATION FOR SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER  
PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS**

The water purification system should be capable of producing type II water with flow rate not less than 5 lit/hr with 10-15 Megaohm resistivity and type I water (18.2 mega ohm resistivity) with pretreatment cartridge, Reverse Osmosis, Electro Deionization, Mixed bed ion exchange resin and inbuilt TOC monitor. The system should be able to produce ultrapure water for ICP-MS analysis with sub-ppt level contamination.

- **The system should be able to take feed water of the quality mentioned below:**

Feed Water: Potable Tap water

Conductivity: < 2000 micro S/cm.

Temperature: 5-35 deg C

Fouling Index (SDI) : <12

Total Chlorine : < 3ppm

**1. TECHNICAL SPECIFICATIONS:**

- **Pre Filter:** Single compact pretreatment unit containing 5 & 1 micron filter and inbuilt pump for boosting feed water pressure in case tap water pressure drops and should have automatic low/high pressure cut off.
- **Pretreatment Cartridge:** Pre-treatment Cartridges with anti-scaling compound, activated carbon filter and 0.5 micron filter to control the particulate load.
- **RO Membrane:** The system should have a high flux thin RO Membrane with min. 200 Daltons cutoff & water quality monitoring after every purification stage to monitor the process of RO rejection (94-99% rejection).
- **Electro Deionization Module:** The system should have mixed bed ion exchange resin filled electro deionization module.
- **UV Lamp:** UV lamp (254 nm) to remove germicidal effect before entering the tank.
- The system should have facility to deliver Type II Water with a flow rate 2 l/min using volumetric dispensing arm with 0.22 micron filter having sufficient arm length for easier water dispensing.
- **Reservoir:** System should have a PE reservoir with a 30 liter capacity with vent filter, activated carbon and 0.22 micron hydrophobic membrane to trap contaminants present in atmospheric air.
- **UV Lamp in Ultra pure Loop:** low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm).
- **Polishing Cartridge:** Application Specific cartridges to remove ionic and organic contaminants to trace levels.

- **TOC Monitor:** Built in TOC monitor with a 0.5mL Quartz cell and UV lamp that needs to measure TOC online from 1-999ppb.
- **Point of Delivery Unit :**
  - System should have total 3 dispensing units for Type 1, Type 2 and trace metal grade ultrapure water.
  - It should have polishing filters at the point of use.
  - Multi display to show resistivity, TOC, level of water in reservoir, volume dispensed and other alarms.
  - The dispensing unit should be of adjustable height and rotating arm - adjustable to any glass ware.
- **System Display :** Should show alarms and indication parameters such as feed conductivity, permeate conductivity, Type II conductivity, RO rejection in %, water level in the tanks, Type I Conductivity, TOC Monitoring, both compensated & none compensated temperature value and consumables status.

## 2. PERFORMANCE SPECIFICATIONS:

- **Type II Water Quality:** Product Water delivery not less than 5 lit. /hr.  
Particulates ( $> 0.22 \mu\text{m}$ )  $< 1$  particulate / ml, Pyrogens  $< 0.001$  EU/ml, Bacteria  $< 1$  cfu/ml, Flow Rate (L/min): 0.05 to 2 (Programmable flow rate), Resistivity : 10 to 15  $\text{M}\Omega\cdot\text{cm}$  at  $25^\circ\text{C}$ , TOC (ppb)  $< 30$  ppb.
- **Type I Water Quality:** Flow rate: 0.05 to 2 L /min (Programmable flow rate). Resistivity:  $18.2 \text{ M}\Omega\cdot\text{cm}$  at  $25^\circ\text{C}$ , TOC  $< 5$ ppb, Microorganismes  $< 1$  cfu/ml, Particulates ( $> 0.22 \mu\text{m}$ )  $< 1$  particulate / ml, RNase Level (ng/ml)  $< 0.01$ , Pyrogens Level (EU/ml)  $< 0.001$ , DNase Level ( $\text{g}/\mu\text{L}$ )  $< 4$ .
- **Ultra pure Water for Trace Metal Analysis:**
  - Resistivity:  $18.2 \text{ M}\Omega\cdot\text{cm}$  at  $25^\circ\text{C}$
  - Should provide a separate dispensing unit with 0.1 micron filter to reduce the trace elemental concentration and particulates.
  - Should provide a footswitch for water delivery to reduce the risks of any external contamination.
  - Water delivery should be provided at a flow rate adapted to the user's needs (up to 1.5 L/min), eliminating the need of water storage and the associated contamination risks.
  - The system should provide ultrapure water with extremely low levels of elemental contamination as follows:
    - Al  $< 2$ ppt,
    - As, Cd, Cr, Co, Cu, Fe, Pb, V, and Zn  $< 1$ ppt.

- 3. Installation and commissioning:** The system should be installed and commissioned at NCAOR. The installation/application engineers should impart site training in the complete system regarding the operation and maintenance, after the successful installation and commissioning.
- 4. Warranty and Service support:** Supplier should provide comprehensive onsite warranty (including parts and labour) for three years after successful installation of the system. The supplier should also quote for annual maintenance contract on a regular basis after the warranty period.
- 5. Instruction Manual and Documents:** The supplier should provide instruction manual and supporting documents wherever required and original catalogue should also be provided to validate the quoted specifications.

**TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS.**

Sr. No	TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
1.	The water purification system should be capable of producing type II water with flow rate not less than 5 lit/hr with 10-15 Megaohm resistivity and type I water (18.2 mega ohm resistivity) with pretreatment cartridge, Reverse Osmosis, Electro Deionization, Mixed bed ion exchange resin and inbuilt TOC monitor. The system should be able to produce ultrapure water for ICP-MS analysis with sub-ppt level contamination.		
2	<ul style="list-style-type: none"> <li>• <b>The system should be able to take feed water of the quality mentioned below:</b>  Feed Water: Potable Tap water  Conductivity: &lt; 2000 micro S/cm.  Temperature: 5-35 deg C  Fouling Index (SDI) : &lt;12  Total Chlorine : &lt; 3ppm</li> </ul>		
3	<ul style="list-style-type: none"> <li>• <b>Pre Filter:</b> Single compact pretreatment unit containing 5 &amp; 1 micron filter and inbuilt pump for boosting feed water pressure incase tap water pressure drops and should have automatic low/high pressure cut off.</li> </ul>		
4	<ul style="list-style-type: none"> <li>• <b>Pretreatment Cartridge:</b> Pre-treatment Cartridges with anti-scaling compound, activated carbon filter and 0.5 micron filter to control the particulate load.</li> </ul>		
5	<ul style="list-style-type: none"> <li>• <b>RO Membrane:</b> The system should have a high flux thin RO Membrane with min. 200 Daltons cutoff &amp; water quality monitoring after every purification stage to monitor the process of RO rejection (94-99% rejection).</li> </ul>		
6	<ul style="list-style-type: none"> <li>• <b>Electro Deionization Module:</b> The system should have mixed bed ion exchange resin filled electro deionization module.</li> </ul>		
7	<ul style="list-style-type: none"> <li>• <b>UV Lamp:</b> UV lamp (254 nm) to remove germicidal effect before entering the tank.</li> </ul>		
8	<ul style="list-style-type: none"> <li>• The system should have facility to deliver Type II Water with a flow rate 2 l/min using volumetric dispensing arm with 0.22 micron filter having sufficient arm length for easier water dispensing.</li> </ul>		

9	<ul style="list-style-type: none"> <li>• <b>Reservoir:</b> System should have a PE reservoir with a 30 liter capacity with vent filter, activated carbon and 0.22 micron hydrophobic membrane to trap contaminants present in atmospheric air.</li> </ul>		
10	<ul style="list-style-type: none"> <li>• <b>UV Lamp in Ultra pure Loop:</b> low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm).</li> </ul>		
11	<ul style="list-style-type: none"> <li>• <b>Polishing Cartridge:</b> Application Specific cartridges to remove ionic and organic contaminants to trace levels.</li> </ul>		
12	<ul style="list-style-type: none"> <li>• <b>TOC Monitor:</b> Built in TOC monitor with a 0.5mL Quartz cell and UV lamp that needs to measure TOC online from 1-999ppb.</li> </ul>		
13	<ul style="list-style-type: none"> <li>• <b>Point of Delivery Unit :</b> <ul style="list-style-type: none"> <li>▪ System should have total 3 dispensing units for Type 1, Type 2 and trace metal grade ultrapure water.</li> <li>▪ It should have polishing filters at the point of use.</li> <li>▪ Multi display to show resistivity, TOC, level of water in reservoir, volume dispensed and other alarms.</li> <li>▪ The dispensing unit should be of adjustable height and rotating arm - adjustable to any glass ware.</li> </ul> </li> </ul>		
14	<ul style="list-style-type: none"> <li>• <b>System Display :</b> Should show alarms and indication parameters such as feed conductivity, permeate conductivity, Type II conductivity, RO rejection in %, water level in the tanks , Type I Conductivity, TOC Monitoring , both compensated &amp; none compensated temperature value and consumables status.</li> </ul>		
15	<ul style="list-style-type: none"> <li>• <b>Type II Water Quality:</b> Product Water delivery not less than 5 lit. /hr. Particulates (<math>&gt; 0.22 \mu\text{m}</math>) <math>&lt; 1</math> particulate / ml, Pyrogens <math>&lt; 0.001</math> EU/ml, Bacteria <math>&lt; 1</math> cfu/ml, Flow Rate (L/min): 0.05 to 2(Programmable flow rate), Resistivity : 10 to 15 <math>\text{M}\Omega\cdot\text{cm}</math> at <math>25^\circ\text{C}</math>, TOC (ppb) <math>&lt; 30</math> ppb.</li> </ul>		
16	<ul style="list-style-type: none"> <li>• <b>Type I Water Quality:</b> Flow rate: 0.05 to 2 L /min (Programmable flow rate). Resistivity: <math>18.2 \text{M}\Omega\cdot\text{cm}</math> at <math>25^\circ\text{C}</math>, TOC <math>&lt; 5</math>ppb, Microorganismes <math>&lt; 1</math> cfu/ml, Particulates (<math>&gt; 0.22 \mu\text{m}</math>) <math>&lt; 1</math> particulate / ml, RNase Level (ng/ml) <math>&lt; 0.01</math>, Pyrogens Level (EU/ml) <math>&lt; 0.001</math>, DNase Level (g/<math>\mu\text{L}</math>) <math>&lt; 4</math>.</li> </ul>		

17	<ul style="list-style-type: none"> <li>• <b>Ultra pure Water for Trace Metal Analysis:</b> <ul style="list-style-type: none"> <li>▪ Resistivity: 18.2 MΩ·cm at 25°C</li> <li>▪ Should provide a separate dispensing unit with 0.1 micron filter to reduce the trace elemental concentration and particulates.</li> <li>▪ Should provide a footswitch for water delivery to reduce the risks of any external contamination.</li> <li>▪ Water delivery should be provided at a flow rate adapted to the user's needs (up to 1.5 L/min), eliminating the need of water storage and the associated contamination risks.</li> <li>▪ The system should provide ultrapure water with extremely low levels of elemental contamination as follows: Al &lt; 2ppt, As, Cd, Cr, Co, Cu, Fe, Pb, V, and Zn &lt; 1ppt.</li> </ul> </li> </ul>		
18	<p><b>Installation and commissioning:</b> The system should be installed and commissioned at NCAOR. The installation/application engineers should impart site training in the complete system regarding the operation and maintenance, after the successful installation and commissioning.</p>		
19	<p><b>Warranty and Service support:</b> Supplier should provide comprehensive onsite warranty (including parts and labour) for three years after successful installation of the system. The supplier should also quote for annual maintenance contract on a regular basis after the warranty period.</p>		
20	<p><b>Instruction Manual and Documents:</b> The supplier should provide instruction manual and supporting documents wherever required and original catalogue should also be provided to validate the quoted specifications.</p>		



**TERMS AND CONDITIONS FOR SUBMISSION OF QUOTATION**

1) The National Centre for Antarctic and Ocean Research (NCAOR) invites sealed quotations in two-parts from the reputed firms for the “**SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS**” as per the specifications given in Annexure-I.

2) The technical and financial bids should be submitted in two separate sealed covers, super scribing “Part –I Technical Bid for “**SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS**”, Tender No., due date and “Part-II Financial bid for “**SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS**”, Tender No., due date. Both the bids should be kept in a single cover by super scribing tender for “**SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS**”, sealed and addressed to the **Director, National Centre for Antarctic & Ocean Research, Headland-Sada, Vasco-da-Gama, Goa – 403 804**. Offer sent through fax will not be accepted.

3) Overwriting and corrections should be attested properly. The bid should be complete in all respects and should be duly signed. **Incomplete and unsigned bids will not be considered at all.**

4) 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.

5) A list of **reputed clients** to whom the firm has supplied similar items to be furnished along-with the quotation.

In the TECHNICAL 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.

The Bidder should enclose copies of Purchase Orders only in the FINANCIAL BID.

6) If the bidder is registered under SSI, NSIC claiming any exemptions should submit valid certificates along with the quotes, failing which quotation will not be considered.

7) Quotation should be **valid for a period of 90 days** from the date of tender opening 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 thereof up to maximum of 5%.

8) The **warranty period** and the kind of **post-warranty support** should be indicated. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract.

9) **Technical bid should contain EMD.**

**Indian Bidders** shall submit **EMD** along with their tender, **either By DD** drawn in favor of NCAOR, on any nationalized bank for a sum of ` **35,000/-** (Rupees Thirty Five Thousand only) payable at Vasco-da-Gama only **or in the form of a bank guarantee** for a sum of ` **35,000/-** (Rupees Thirty Five Thousand only) from any reputed bank (scheduled bank) initially valid for 180 days from the date of closing of the tender as per the proforma enclosed. This bank Guarantee in original shall be submitted along with the technical bid only.

**Tender without EMD in the envelope containing technical bid shall be summarily rejected.** The EMD of unsuccessful bidders shall be returned within 30 days of the award of contract.

The earnest money will be liable to be forfeited, if the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of his tender.

10) Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.

11) The Purchaser requires that the bidders suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

“Corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution:

“fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of contract;

“collusive practice” means a scheme or arrangement between two or more bidders, with or without the knowledge of purchaser, designed to establish bid prices at artificial, noncompetitive levels; and

“coercive practice: means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of contract;

The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question; The Decision of Director, NCAOR shall be final and binding.

12) Bidders that doesn't manufacture the goods it offers to supply shall submit Manufacturer's Authorization form on the letterhead of the Manufacturer duly signed and stamped by a person with the proper authority to sign documents that are binding on the Manufacturer as per the following format should be submitted failing which the quotation will not be considered.

To  
The Director  
NCAOR  
GOA

Sub: Manufacturers' Authorization form against Tender No: \_\_\_\_\_

We \_\_\_\_\_ (Name of the Manufacturer) who are official manufacturers of \_\_\_\_\_ (Type of goods manufactured) having factories at \_\_\_\_\_ (full address of Manufacturer's factories) do hereby authorize \_\_\_\_\_ ( Name of the Bidder) to submit a bid against your Tender No. \_\_\_\_\_ for the \_\_\_\_\_ Goods manufactured by us and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee and warranty with respect to the Goods offered by the above firm

Manufacturer's Name:  
Signature of Authorized  
representative of the Manufacturer:

Duly authorized to sign this Authorization on behalf of : \_\_\_\_\_(Name of the Bidder)

Date:

In case the bidder not doing business within India, shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc., during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc., during the warranty and post- warranty period.

**13) The order acknowledgement** 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.

14) **Compliance Statement:** Equipments point-by-point comparison/compliance statement with **technical specification** indicated in the tender, should be enclosed along with your tender as well as any other extra features of the equipment be shown separately therein and also **compliance statement for all commercial terms** of the tender document.

15) NCAOR is not entitled to issue form “**C/D**”. 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.

16) To avail duty concessions i.e. **Excise Duty** as per Govt. notification 10/97 & **Custom Duty** 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.

17) **Technical Bid should contain** all details and specifications of the equipment offered, delivery schedule, warranty, payment term, installation, training, post-warranty, user-list, service support **WITHOUT PRICE** and **Financial bid should contain** details of the price(s) of the item(s) quoted in the technical bid. The Technical bid should not contain any references to the pricing.

**In case the technical bid contains any direct or indirect reference to quoted price the bid is liable to be rejected.**

The Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency in case of offers received for supply from foreign countries.

For Goods manufactured in India:

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.

18) In case of imported stores both **FOB and CIF prices upto Indian port of entry** 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.

19) A Committee constituted by the Director, NCAOR for the purpose reserves the right to open the bids. Only technical bids will be opened on the date and time mentioned in the tender document. The financial bids of those tenderers whose technical bids are found to be meeting our specifications only will be opened in their presence at date and time to be notified later.

20) The firm to the full satisfaction of the NCAOR should carry out the **installation and commissioning** at the NCAOR premises and the time-frame for the whole process should be specified in the technical bid.

21) 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.

22) **No advance payment** 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 **irrevocable letter of credit**. 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.

23) 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 financial bid.

24) 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 **spares will be supplied on the lowest rate quoted** than to any other customer with providing the sales price list to the NCAOR periodically as and when increase/decrease in prices.

**25) Two sets of operational, service/troubleshooting manuals and diagrams to be supplied with “SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS.”**

26) **The submission of tender** 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.

27) 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.

28) **Acceptance of this tender** form and submission of the quote within the stipulated time would be treated as:

a) The tenderer has understood all requirements as described in our Tender document.

b) 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.

c) Agreeing to execute order to the satisfaction of NCAOR or its authorized representatives within the stipulated time.

**29) Training /Installation charges** should be clearly indicated including the scope of training.

30) Tender should clearly define the **infrastructure facilities required** for installation of the equipment.

31) NCAOR will not be liable for any obligation until such time NCAOR has communicated to the successful bidder of its decision to release the Purchase Order.

32) **NCAOR will not be responsible for any postal delays.**

33) Bidders shall note that NCAOR will not entertain any correspondence or queries on the status of the offers received against this Tender Invitation.

34) Tenders from Manufacturers/Suppliers/Tenderers whose performance was not satisfactory in respect of quality of supplies and delivery schedules in any organizations, are liable for rejection. The tenders that do not comply with the above criteria and other terms & conditions are liable for rejection.

35) The Director, NCAOR does not bind to accept the lowest quotation and reserves the right to himself, to reject or partly accept any or all the quotations received without assigning any reason.

36) All disputes arising in connection with executing the purchase order will be subject to the Jurisdiction of the Courts in Goa only.

**COMMERCIAL COMPLIANCE STATEMENT FOR SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS.**

Sr. No.	COMMERCIAL COMPLIANCE STATEMENT FOR SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS	COMPLIED/ NOT COMPLIED
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 TECHNICAL 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 only in the FINANCIAL BID.	
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	<b>Bidders</b> shall submit <b>EMD</b> for ` 35,000/- (Rupees Thirty Five Thousand only) payable at Vasco-da-Gama only <b>or in the form of a bank guarantee</b> for a sum of ` 35,000/- (Rupees Thirty Five Thousand only) from any reputed bank (scheduled bank)	
7	Please <b>specify the Make/Brand</b> and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.	
8	SSI, NSIC Registration Certificate	
9	<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.	
10	<b>Compliance Statement:</b> Equipments point-by-point comparison/compliance statement with <b>technical specification</b> indicated in the tender, 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> of the tender document.	
11	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.	
12	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.	
13	<b>Technical 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 <b>WITHOUT PRICE</b> and <b>Financial bid should contain</b> details of the price(s) of the item(s) quoted in the technical bid. The Technical bid should not contain any references to the pricing.	
14	<b>In case the technical bid contains any direct or indirect reference to quoted price the bid is liable to be rejected.</b>	
15	The Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency in case of offers received for supply from foreign countries.	
16	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.	
17	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.	
18	A Committee constituted by the Director, NCAOR for the purpose reserves the right to open the bids. Only technical bids will be opened on the date and time mentioned in the tender document. The financial bids of those tenderers whose	



	technical bids are found to be meeting our specifications only will be opened in their presence at date and time to be notified later.	
19	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.	
20	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.	
21	<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> .	
22	The <b>performance Bank Guarantee</b> should be furnished within 15 days from the date of placement of order from a reputed bank (scheduled bank in India <b>or</b> foreign bank operating in India) valid till 60 days after the warranty period.	
23	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.	
24	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.	
25	Two sets of operational, service/troubleshooting manuals and diagrams to be supplied with <b>“SUPPLY OF INTEGRATED PURE &amp; ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS”</b>	
26	<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.	
27	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.	
28	<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>	
29	<b>Training /Installation charges</b> should be clearly indicated including the scope of training.	
30	Tender should clearly define the <b>infrastructure facilities required</b> for installation of the equipment.	

**QUESTIONNAIRE**

- a. **Name of the Manufacturer / Tenderer.**
- b. **Full postal address with Telephone, Telefax, Email.**
- c. **Please specify whether Public Limited, Company, Private Organization or Partnership Firm.**
- d. **Nature of the Business.**
- e. **Date of Establishment.**
- f. **Present Turnover.**
- g. **Permanent Income Tax Ref. No.**
- h. **C.S.T. / S.T. NO.**
- i. **Address & Telephone Nos. Of your branch office in GOA (please specify whether Distributing/Servicing/Marketing the products).**
- j. **Technical Compliance statement.**
- k. **Commercial Compliance statement.**
- l. **Reference of reputed Customers.**
- m. **Details of the highest order executed and value thereof.**
- n. **Authorization from Manufacturer/Supplier attached.**
- o. **Tender fee submitted/enclosed.**
- p. **E.M.D. attached with TECHNICAL BID.**
- q. **SSI, NSIC Registration Certificate.**
- r. **Infrastructure facilities required for installation & commissioning attached.**
- s. **Technical Specifications/Literature/Brochure attached.**
- t. **Tender Acceptance.**

**TENDER ACCEPTANCE UNDERTAKING**

To

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

Having examined the tender document for **“SUPPLY OF INTEGRATED PURE & ULTRAPURE WATER PURIFICATION SYSTEM FOR TRACE METAL ANALYSIS”** 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

**BANK GUARANTEE FORMAT FOR FURNISHING EMD**

**To**

**NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH  
Headland Sada, Vasco-da-Gama, GOA 403 804, INDIA**

Whereas \_\_\_\_\_  
(Hereinafter called the "tenderer")  
has submitted their offer dated \_\_\_\_\_  
for the supply of \_\_\_\_\_  
(Herein after called the "tender")

WE \_\_\_\_\_ of having our registered office  
At \_\_\_\_\_ are bound unto the NATIONAL  
(Hereinafter called the Bank)

CENTRE FOR ANTARCTIC & OCEAN RESEARCH, Ministry of Earth Sciences, Govt. Of India having its office at Headland Sada, Vasco Goa 403 804, India (herein after called NCAOR which expression shall unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assigns) in the sum of \_\_\_\_\_ for which payment will and truly to be made to. NCAOR, the Bank binds itself, its successors and assigns by these presents. Sealed with the common seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 2015.

THE CONDITIONS OF THIS OBLIGATION ARE:

- 1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the tenderer having been notified of the acceptance of his tender by NCAOR during the period of its validity.
  - 2.a) If the tenderer fails to furnish the Performance security for the due performance of the contract.
  - 2.b) Fails or refuses to execute the contract

We undertake to pay NCAOR up to the above amount upon receipt of its first written demand, without NCAOR having to substantiate its demand, provided that in its demand the NCAOR will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee is valid until the \_\_\_\_\_ day of \_\_\_\_\_ 2015.

**Signature of the bank**

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

**PUBLIC TENDER**

Director, National Centre for Antarctic & Ocean Research (NCAOR) invites sealed tenders in two-parts (part I – Technical bid & part II Financial bid) super scribing Tender No. Item and due date from well established/ reputed manufacturers / authorized and bonafide vendors for supply of the following:-

Sl. No.	Tender No.	Item Description	Qty.	Cost of Tender Doc.	EMD
				RS.	RS.
1	NCAOR/SOE-50411/PT-12	SUPPLY OF A VERTICAL, SEMI AUTOMATED, PROGRAMMABLE AUTOCLAVE	01	500/-	15,000/-
2	NCAOR/HSS-049/PT-13	SUPPLY OF STEEL DRY CARGO CONTAINER 40'X8'X8.6"	ONE AC AND ONE NON AC	1000/-	35,000/-
3	NCAOR/LAB-2288/PT-14	SUPPLY OF ULTRAPURE WATER PURIFICATION SYSTEM	01	1000/-	35,000/-
4	NCAOR/SOE-50417/PT-15	SUPPLY OF MUFFLE FURNACE	01	500/-	-

Last date for issue of tender documents : **03.08.2015**

Last date for submission of quotation : **04.08.2015**

The details of tender documents are also available in our website <http://www.ncaor.gov.in> and Central Public Procurement Portal <http://eprocure.gov.in>. Interested suppliers may download the details and submit the quotation on or before the due date along with tender fee.

**The quotation without tender fee will not be considered.**

Tender forms can be obtained from the Procurement section of NCAOR on all working days either by post or in person between 1000 – 1600 hours on payment of tender fees in the form of crossed Demand Draft payable at Vasco-da-gama only, from a Nationalized bank drawn in favor of NCAOR along with separate requisition indicating tender number and item. Tender forms can be obtained by speed post by remitting **Rs. 50/-** by Indian bidders in addition to the cost of tender documents.

The Director, NCAOR is not responsible for any transitional/postal delays.

The quotations will be **opened on 05.08.2015** in the presence of tenderers or their authorized representatives.

The Director, NCAOR reserves the right to accept or reject any quotation in full or part thereof without assigning any reason.

**Sd/-**  
**For & on behalf of NCAOR**