

# TENDER DOCUMENT FOR



## SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

*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)*

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

**TENDER NO. NCAOR/SOE-50447/PT-51**  
**TENDER FOR SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID**  
**CHROMATOGRAPHY (HPLC).**

1.	<b>SUPPLY, INSTALLATION &amp; TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)</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)	US\$ 40.00      ₹ 1000.00
4.	Cost of Tender Documents (By Post)	US\$ 55.00      ₹ 1050.00
5.	EMD	<p><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></p> <p><b>A) Foreign Bidders</b> shall submit <b>EMD</b> along with their tender, <b>in the form of a bank guarantee only</b> ) for US \$ 900.00 (US \$ Nine Hundred Only)</p> <p><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 ₹ 50,000/- (Rupees Fifty Thousand only) payable at Vasco-da-Gama only.</p> <p style="text-align: center;"><b>Or</b></p> <p><b>In the form of a bank guarantee</b> for a sum of ₹ 50,000/- (Rupees Fifty Thousand only)</p>
6.	Last Date and time for issue of tender documents	<b>TUESDAY</b> <b>29.03.2016</b> 1600Hrs (IST)
7.	Last Date and time for submission of sealed quotations	<b>WEDNESDAY</b> <b>30.03.2016</b> 1700Hrs (IST)
8.	Date and time of tender opening	<b>THURSDAY</b> <b>31.03.2016</b> 1000Hrs (IST)

## **SPECIFICATIONS FOR SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)**

High performance liquid chromatography is basically a highly improved form of column chromatography. Pigment of phytoplanktons analysis with High Pressure Liquid Chromatography (HPLC) is a rapid, very sensitive and objective method for determining the phytoplankton composition and estimating the biomass of the different algal groups. It can also uses in purify and separation of biochemical molecules of sugrars, carbohydrates, amino acids and proteins.

### ***Solvent Delivery System (Pump):***

- Quaternary gradient Pump able to deliver 4 solvents, Flow Range : 0.001 – 10.0 ml/min with 0.001 ml/min increments, Flow Precision: < 0.07 % RSD or 0.02 min SD, whatever is greater, Operating Pressure : 60 MPa (600 bar - 8700 psi) or better, Flow rate accuracy :  $\pm 1\%$  or 10ul/min whichever is greater, Gradient composition precision: < 0.20 % RSD at 0.2 and 1 ml/min, Delay volume should be between 600-900uL depending on back pressure, Recommended pH range should be between 1.0 - 12.0,
- Pump must contain all the necessary accessories as solvent cabinet, solvent bottles, tubing, filters, connections,
- Safe leak handling must be provided together with leak sensors,
- Status indicator must indicate the operational state of the module such as pre-run, run, and error-states,
- All maintenance parts must be accessible from the front

### ***Thermostatted Column Compartment:***

- Column oven shall have Peltier cooling and heating for maximum temperature stability and application. Temperature range of 10°C below ambient to 80°C, It should have temperature stability of  $\pm 0.15^\circ\text{C}$ , It should have temperature accuracy of  $\pm 0.8^\circ\text{C}$  & with calibration of  $\pm 0.5^\circ\text{C}$ .
- Capacity to hold 3 columns of 30 cm length simultaneously
- Heat up time shall be 5 min from ambient to 40°C & cool down time shall be 10 min from 40°C to 20°C
- Low internal volume contribution of just 9  $\mu\text{L}$  for low dispersion
- Thermostatted column compartment must be equipped with a contact-free column-identification system. This allows to write and to read column-specific information to and from the column-identification tag
- The TCC must contain all the necessary accessories as tubing, connections, column clip, column identification module etc.
- Safe leak handling must be provided together with leak sensors

### ***Autosampler):***

- Pressure operating range up to 600bar, Auto sampler should have Sample capacity of: Sample capacity 100 x 2-mL vials in 1 tray, 40 x 2-mL vials in 1/2 tray.
- Should have Injection volume of 0.1–100  $\mu\text{l}$  in 0.1  $\mu\text{L}$  increments.
- Capacity to upgrade injection volume up to 1500  $\mu\text{l}$  in future, Injection time should be typically 50s & viscosity range should be 0.2 to 50 cp,

- Precision: Typically < 0.25% RSD from 5–100 µl, typically < 1% RSD from 1–5 µl, variable volume, Carry over: Typically < 0.1% without automated needle wash & 0.05% with external needle wash
- Auto sampler should have provision of Thermostat for Peltier temperature control from 4 to 40 °C for up to 100 2-mL vials

#### ***Diode Array Detector:***

- Should be maximum baseline stability and practical sensitivity under fluctuating ambient temperature and humidity conditions
- Detector should have Automatic wavelength verification by built-in holmium oxide filter, Detector should be 1024-element diode array, Wavelength range should be 190-950nm with diode width of < 1nm, Light source should be deuterium & tungsten lamp., Noise should be < +/- 0.7 x 10<sup>-5</sup> AU or less, at 254/4 nm & at 750nm
- Wavelength accuracy must be at least +/- 1.0 nm, Signal drift must be 0.9 x 10<sup>-3</sup> AU/hr at 254nm, and Linearity must be > 2.0 AU (5%) at 265nm, Slit width should be programmable between 1, 2, 4, 8, & 16 nm
- The detector must be able to acquire 8 chromatographic signals simultaneously at 80Hz data rate without loss of sensitivity compared to lower data rate.
- Standard analytical flow cell of 10mm path length shall be included with Detector, It should have early maintenance feedback system for continuous tracking of instrument usage
- It should have data analysis software for spectra evaluation, including spectral libraries and peak purity functions
- It should have Data recovery card to prevent data losses. RFID for electronics records of flow cell and UV lamp conditions
- Detector should be stackable, self-contained module with solvent resistant material used in all areas, which may have contact with the mobile phase.

#### ***Fluorescence Detector:***

- Light source should be Xenon flash lamp, normal mode (20 W), economy mode (5 W), It should have lowest limits of detection, Raman S/N > 500 (noise reference measured at signal), Raman S/N > 3000 (noise reference measured at dark value)
- Excitation monochromatic should have Concave holographic grating, F/1.6, blaze 300 nm., Range 200 – 1200 nm and zero-order, bandwidth 20 nm
- Emission monochromatic should have Concave holographic grating, F/1.6, blaze 400 nm, Range 280 – 1200 nm and zero-order, bandwidth 20 nm, Reference system should be Inline excitation measurement.
- Time programming should be possible up to four signals, response time, PMT gain, baseline behaviour (append, free, zero), spectral parameters.
- Spectral acquisition should be possible for excitation or emission spectra, scan speed 28 ms per datapoint
- Wavelength repeatability should be ± 0.2 nm, Wavelength accuracy should be ±3 nm
- Data rate should be 74 Hz, Flow cells should be quartz with of 8 µL volume, 20 bar (2 MPa) pressure maximum

#### ***Openlab CDS Software***

- Suitable latest Chromatography data station with original license software with all features like control of entire HPLC system including all modules, data acquisition, report generation,
- Suitable Branded Desktop with Colour Laser Jet Printer., Intel® Core® 2 Duo Processor 2.3 GHz, 8 GB RAM, 1000 GB Hard Drive,

*Other aspects*

- Instruments should provide extensive information for diagnostic purposes, Safe leak handling must be provided together with leak sensors
- Design must ensure isolation of electrical components from liquid flow path all modules of the HPLC system
- Design must ensure isolation of electrical components from liquid flow path for all modules of the HPLC system
- All maintenance parts must be accessible from the front side.
- Entire HPLC system should be warranty for a period of 3 years from the date of purchase. Annual maintenance contract on a regular basis the warranty period.
- Installation/training of the complete HPLC system shall be done without any additional cost. Prompt after sales onsite service support & technical/application support shall be available as & when required.
- Onsite service support & technical/application support is essential
- Entire HPLC system should be under warranty for a period of 3 years from the date of purchase. This warranty shall include all spares as & when required for entire HPLC system as well as a set of fixed consumables per year for HPLC system.

**TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC).**

SR. NO.	SPECIFICATIONS FOR SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)	COMPLIE/ NOT COMPLIED	EXTRA FEATURES
	High performance liquid chromatography is basically a highly improved form of column chromatography. Pigment of phytoplanktons analysis with High Pressure Liquid Chromatography (HPLC) is a rapid, very sensitive and objective method for determining the phytoplankton composition and estimating the biomass of the different algal groups. It can also uses in purify and separation of biochemical molecules of sugrars, carbohydrates, amino acids and proteins.		
	<b><i>Solvent Delivery System (Pump):</i></b>		
	<ul style="list-style-type: none"> <li>Quaternary gradient Pump able to deliver 4 solvents, Flow Range : 0.001 – 10.0 m l/min with 0.001 ml/ min increments, Flow Precision: &lt; 0.07 % RSD or 0.02 min SD, whatever is greater, Operating Pressure : 60 MPa (600 bar - 8700 psi) or better, Flow rate accuracy : ± 1% or 10ul/min whichever is greater, Gradient composition precision: &lt; 0.20 % RSD at 0.2 and 1 ml/min, Delay volume should be between 600-900uL depending on back pressure, Recommended pH range should be between 1.0 - 12.0,</li> </ul>		
	<ul style="list-style-type: none"> <li>Pump must contain all the necessary accessories as solvent cabinet, solvent bottles, tubing, filters, connections,</li> </ul>		
	<ul style="list-style-type: none"> <li>Safe leak handling must be provided together with leak sensors,</li> </ul>		
	<ul style="list-style-type: none"> <li>Status indicator must indicate the operational state of the module such as pre-run, run, and error-states,</li> </ul>		
	<ul style="list-style-type: none"> <li>All maintenance parts must be accessible from the front</li> </ul>		
	<b><i>Thermostatted Column Compartment:</i></b>		
	<ul style="list-style-type: none"> <li>Column oven shall have Peltier cooling and heating for maximum temperature stability and application. Temperature range of 10°C below ambient to 80°C, It should have temperature stability of +/- 0.15°C, It should have temperature accuracy of +/- 0.8°C &amp; with calibration of +/- 0.5°C.</li> </ul>		
	<ul style="list-style-type: none"> <li>Capacity to hold 3 columns of 30 cm length simultaneously</li> </ul>		
	<ul style="list-style-type: none"> <li>Heat up time shall be 5 min from ambient to 40°C &amp; cool down time shall be 10 min from 40°C to 20°C</li> </ul>		
	<ul style="list-style-type: none"> <li>Low internal volume contribution of just 9 µL for low dispersion</li> </ul>		
	<ul style="list-style-type: none"> <li>Thermostatted column compartment must be equipped with a contact-free column-identification system. This allows to write and to read column-specific information to and from the column-identification tag</li> </ul>		
	<ul style="list-style-type: none"> <li>The TCC must contain all the necessary accessories as tubing, connections, column clip, column identification module etc.</li> </ul>		
	<ul style="list-style-type: none"> <li>Safe leak handling must be provided together with leak sensors</li> </ul>		
	<b><i>Autosampler):</i></b>		
	<ul style="list-style-type: none"> <li>Pressure operating range up to 600bar, Auto sampler should have Sample capacity of: Sample capacity100 x 2-mL vials in 1 tray, 40 x 2-mL vials in 1/2 tray.</li> </ul>		

	<ul style="list-style-type: none"> <li>Should have Injection volume of 0.1–100 <math>\mu\text{l}</math> in 0.1 <math>\mu\text{L}</math> increments.</li> </ul>		
	<ul style="list-style-type: none"> <li>Capacity to upgrade injection volume up to 1500 <math>\mu\text{l}</math> in future, Injection time should be typically 50s &amp; viscosity range should be 0.2 to 50 cp,</li> </ul>		
	<ul style="list-style-type: none"> <li>Precision: Typically &lt; 0.25% RSD from 5–100 <math>\mu\text{l}</math>, typically &lt; 1% RSD from 1–5 <math>\mu\text{l}</math>, variable volume, Carry over: Typically &lt; 0.1% without automated needle wash &amp; 0.05% with external needle wash</li> </ul>		
	<ul style="list-style-type: none"> <li>Auto sampler should have provision of Thermostat for Peltier temperature control from 4 to 40 <math>^{\circ}\text{C}</math> for up to 100 2-mL vials</li> </ul>		
	<b>Diode Array Detector:</b>		
	<ul style="list-style-type: none"> <li>Should be maximum baseline stability and practical sensitivity under fluctuating ambient temperature and humidity conditions</li> </ul>		
	<ul style="list-style-type: none"> <li>Detector should have Automatic wavelength verification by built-in holmium oxide filter, Detector should be 1024-element diode array, Wavelength range should be 190-950nm with diode width of &lt; 1nm, Light source should be deuterium &amp; tungsten lamp., Noise should be &lt; +/- 0.7 x 10<sup>-5</sup> AU or less, at 254/4 nm &amp; at 750nm</li> </ul>		
	<ul style="list-style-type: none"> <li>Wavelength accuracy must be at least +/- 1.0 nm, Signal drift must be 0.9 x 10<sup>-3</sup> AU/hr at 254nm, and Linearity must be &gt; 2.0 AU (5%) at 265nm, Slit width should be programmable between 1, 2, 4, 8, &amp; 16 nm</li> </ul>		
	<ul style="list-style-type: none"> <li>The detector must be able to acquire 8 chromatographic signals simultaneously at 80Hz data rate without loss of sensitivity compared to lower data rate.</li> </ul>		
	<ul style="list-style-type: none"> <li>Standard analytical flow cell of 10mm path length shall be included with Detector, It should have early maintenance feedback system for continuous tracking of instrument usage</li> </ul>		
	<ul style="list-style-type: none"> <li>It should have data analysis software for spectra evaluation, including spectral libraries and peak purity functions</li> </ul>		
	<ul style="list-style-type: none"> <li>It should have Data recovery card to prevent data losses. RFID for electronics records of flow cell and UV lamp conditions</li> </ul>		
	<ul style="list-style-type: none"> <li>Detector should be stackable, self-contained module with solvent resistant material used in all areas, which may have contact with the mobile phase.</li> </ul>		
	<b>Fluorescence Detector:</b>		
	<ul style="list-style-type: none"> <li>Light source should be Xenon flash lamp, normal mode (20 W), economy mode (5 W), It should have lowest limits of detection, Raman S/N &gt; 500 (noise reference measured at signal), Raman S/N &gt; 3000 (noise reference measured at dark value)</li> </ul>		
	<ul style="list-style-type: none"> <li>Excitation monochromatic should have Concave holographic grating, F/1.6, blaze 300 nm., Range 200 – 1200 nm and zero-order, bandwidth 20 nm</li> </ul>		
	<ul style="list-style-type: none"> <li>Emission monochromatic should have Concave holographic grating, F/1.6, blaze 400 nm, Range 280 – 1200 nm and zero-order, bandwidth 20 nm, Reference system should be Inline excitation measurement.</li> </ul>		

	<ul style="list-style-type: none"> <li>Time programming should be possible up to four signals, response time, PMT gain, baseline behaviour (append, free, zero), spectral parameters.</li> </ul>		
	<ul style="list-style-type: none"> <li>Spectral acquisition should be possible for excitation or emission spectra, scan speed 28 ms per data point</li> </ul>		
	<ul style="list-style-type: none"> <li>Wavelength repeatability should be <math>\pm 0.2</math> nm, Wavelength accuracy should be <math>\pm 3</math> nm</li> </ul>		
	<ul style="list-style-type: none"> <li>Data rate should be 74 Hz, Flow cells should be quartz with of 8 <math>\mu</math>L volume, 20 bar (2 MPa) pressure maximum</li> </ul>		
	<b><i>Openlab CDS Software</i></b>		
	<ul style="list-style-type: none"> <li>Suitable latest Chromatography data station with original license software with all features like control of entire HPLC system including all modules, data acquisition, report generation,</li> </ul>		
	<ul style="list-style-type: none"> <li>Suitable Branded Desktop with Colour Laser Jet Printer., Intel® Core® 2 Duo Processor 2.3 GHz, 8 GB RAM, 1000 GB Hard Drive,</li> </ul>		
	<b><i>Other aspects</i></b>		
	<ul style="list-style-type: none"> <li>Instruments should provide extensive information for diagnostic purposes, Safe leak handling must be provided together with leak sensors</li> </ul>		
	<ul style="list-style-type: none"> <li>Design must ensure isolation of electrical components from liquid flow path all modules of the HPLC system</li> </ul>		
	<ul style="list-style-type: none"> <li>Design must ensure isolation of electrical components from liquid flow path for all modules of the HPLC system</li> </ul>		
	<ul style="list-style-type: none"> <li>All maintenance parts must be accessible from the front side.</li> </ul>		
	<ul style="list-style-type: none"> <li>Entire HPLC system should be warranty for a period of 3 years from the date of purchase. Annual maintenance contract on a regular basis the warranty period.</li> </ul>		
	<ul style="list-style-type: none"> <li>Installation/training of the complete HPLC system shall be done without any additional cost. Prompt after sales onsite service support &amp; technical/application support shall be available as &amp; when required.</li> </ul>		
	<ul style="list-style-type: none"> <li>Onsite service support &amp; technical/application support is essential</li> </ul>		
	<ul style="list-style-type: none"> <li>Entire HPLC system should be under warranty for a period of 3 years from the date of purchase. This warranty shall include all spares as &amp; when required for entire HPLC system as well as a set of fixed consumables per year for HPLC system.</li> </ul>		



**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, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)”** at NCAOR, GOA 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, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)”**, Tender No., due date and “Part-II Financial bid for **“SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)”**, Tender No., due date. Both the bids should be kept in a single cover by super scribing tender for **“SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)”**, 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) **Technical bid should contain EMD.**

**A) Foreign Bidders** shall submit **EMD** along with their tender **in the form of a bank guarantee for sum of US \$ 900.00 (US \$ Nine Hundred only)** from any reputed bank (scheduled bank in India or foreign bank having operational Branch in India) 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.

**B) Indian Bidders** shall submit **EMD** along with their tender, **either By DD** drawn in favor of NCAOR, for a sum of ₹ 50,000 /- (Rupees Fifty Thousand only) payable at Vasco-da-Gama only **or in the form of a bank guarantee** for a sum of ₹ 50,000/- (Rupees Fifty 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.**

9) 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.

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) NCAOR is **exempted from the payment of Excise Duty / Custom Duty** as per Govt. notification. Hence, the rate 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, commissioning, 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 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, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)”**.

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 or 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.

**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. **Reference of reputed Customers.**
- k. **Details of the highest order executed and value thereof.**
- l. **Authorization from Manufacturer/Supplier attached.**
- m. **Tender fee submitted/enclosed.**
- n. **E.M.D. attached with TECHNICAL BID.**
- o. **SSI, NSIC Registration Certificate.**
- p. **Infrastructure facilities required for installation & commissioning attached.**
- q. **Technical Specifications/Literature/Brochure attached.**
- r. **Tender Acceptance.**



**TENDER ACCEPTANCE UNDERTAKING**

To

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

Having examined the tender document for **“SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)**, 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 \_\_\_\_\_ 2016.

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 \_\_\_\_\_ 2016.

**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	
				₹	US\$	₹	US\$
01	NCAOR/SOE-50447/PT-51	SUPPLY, INSTALLATION & TRAINING OF HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)	01 No.	1000.00	40.00	50000.00	900.00

Last date for issue of tender documents : **29.03.2016**

Last date for submission of quotation : **30.03.2016**

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 and US\$ 15.00 by Foreign 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 31.03.2016** 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**