

TENDER DOCUMENT FOR



SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)

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

Website: 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/HSS-018/PT-25
TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON
PROBE MICROANALYSER (EPMA).

1.	SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA) Specifications Quantity	As per Annexure-I 01 No.
2.	General Terms and Conditions	As per Annexure II
3.	Cost of Tender Documents (In Person)	US \$ 50.00 ` 2000.00
4.	Cost of Tender Documents (By Post)	US \$ 65.00 ` 2050.00
5.	EMD	<p>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.</p> <p>A) Foreign Bidders shall submit EMD along with their tender, in the form of a bank guarantee only for a sum of US \$ 1900.00 (US\$ One Thousand Nine Hundred only)</p> <p>B) Indian Bidders shall submit EMD along with their tender, either by DD drawn in favor of NCAOR, for a sum of ` 1, 00,000/- (Rupees One Lakh only) payable at Vasco-da-Gama only.</p> <p style="text-align: center;">Or</p> <p>In the form of a bank guarantee for a sum of ` 1,00,000/- (Rupees One Lakh only)</p>
6.	Last Date and time for issue of tender documents	MONDAY 25.08.2014 1600Hrs (IST)
7.	Last Date and time for submission of sealed quotations	TUESDAY 26.08.2014 1700Hrs (IST)
8.	Date and time of tender opening	WEDNESDAY 27.08.2014 1000Hrs (IST)

TECHNICAL SPECIFICATIONS FOR ELECTRON PROBE MICRO ANALYSER (EPMA)

A. General:

An automated state-of-the-art Electron Probe Micro Analyzer with five vertical Wavelength Dispersive Spectrometers (WDS), based on digital technology to be used for multi-element analysis (major and trace elements, from B/Be to U) for variety of geological samples. Apart from routine micro-chemical analysis, the equipment will also be used for specialized applications such as chemical dating and in several other projects such as environment studies, metallurgy, etc. The system would involve a high degree of automation with the capacity of prolonged unattended analytical schedules with high analytical precision, accuracy and reproducibility with minimum down-time, high quality imaging at high spatial resolution including multi-element X-ray mapping. Vertical WDS in suitable combinations of LIF, PET, TAP (or equivalent crystals) or special crystals and large diffracting crystals. Beam current regulations suitable for accurate trace element analysis. Reflected and transmitted microscopy system with polarizer, analyzer and variable field of view. Automatic Z focusing, high resolution TV camera and monitors for separate displays. Vacuum system with safety devices, Window (PC) based operating control system. All operational software including those for chemical dating of minerals and X-ray mapping. Suitable standards for REE, metals, sulphides, oxides, chemical dating and PGE analyses. Spares, Comprehensive warranty and training.

- 1) Performance specifications
 Detectable element range: B/Be to U
 Accelerating Voltage range: 0.2 to 30 KV or higher in steps of 0.5V or less.
 Probe/Beam Current range and Stability: 10pA or lower to 500nA or better. Beam current stability of $\pm 0.1\%$ or less per hour with $\pm 0.5\%$ or less over 12 hours for reliable, reproducible and accurate unattended analysis, high beam current regulation from 0.5 to at least 300nA or better for trace element analysis. Since trace element determination is an important projected work component, the Rowland Circle should be higher for high atomic number resolution of trace quantities. Beam diameter adjustable with minimum possible variation.
- 2) High Stability Electron Column and Gun with inter-changeable W filament and LaB6 cathodes and adaptability to Field Emission Gun (FEG).
 High vacuum in column for longer life of filament and current stability, preferably with separate pumping devices.
 Electron optical column with suitable electromagnetic lenses for focusing electron beam, liner tube for elimination of stray electrons, Faraday cage, range of automated/manual functions for column-alignment, focus, estimation, correction, beam size resolution, etc.,
- 3) Secondary electron detection and imaging system with a SEI resolution of 6 nm (W) and 5nm (LaB6) or better
- 4) Backscatter electron detector & imaging system with topographical, compositional display, BSE/ BSI resolution of about 15 nm or better at 25kV.

- 5) Optical Microscopy system: Reflected and transmitted light viewing with polarizer, analyzer, with zooming capacity and variable field of view, high resolution. Automatic Z focusing, high resolution CCD TV camera.
- 6) Multi viewing capability permitting simultaneous observation of real-time images (optical, SEI, BSEI and software/control systems). Separate monitors for individual displays.
- 7)
 - a) Standards for Rare Earth Elements and Nb
 - b) Geological Standard for silicates, sulphides and PGE and Low atomic number elements
 - c) U, Th, Y and Pb standard block for monazite dating, preferably with dated standard grains.
 - d) standards for Rb and Sr
- 8) Air cooled closed loop water Chiller for EPMA unit, with heavy duty motor capable of continuous running (24 hrs-365 days) with electronic controlled thermostat and flow controls.
- 9) Specimen holders and Shuttle holders:-
 - a) Holders for six 2.5cms blocks-2.
 - b) 1 Sample holders for 4 standard thin sections (46-47 mmx 25-26mm).
 - c) 1 Sample holder for two standard thin sections and two specimens of diameter 25 mm approx.
 - d) 1 Sample holder for 2 specimens with diameter of 34-36mm approx.
 - e) 2 Wehnelt cylinder.
 - f) An additional shuttle
- 10) EDS with solid state detector having 130eV resolution.
- 11) Suitable UPS for necessary power requirements (atleast 15 kV) and for one hour back up and water chiller.
- 12) A carbon coating (vacuum evaporation) unit capable of standard make
- 13) Digital stage/point logger & software for transfer of coordinates from microscope to probe (optional)
- 14) Cathode Luminescence system (Optional)

B. Installation, training & Warranty:

- a) Complete installation at user site with all costs included with signature of user on acceptance certificate of equipment.

- b) **Training of personnel:** After successful installation of the system and its peripherals, selected scientific and technical personnel should be provided with two stage comprehensive onsite training for i) operation and maintenance at the time of installation ii) application training (3-6 months after installation) and also at the factory site for minimum 2 weeks.
 - c) Five years onsite warranty (upon expiry of initial instrument warranty with free replacement of faulty/defective parts) covering all components including principal manufacturer made and spares. The offer should include all accessories/ spares/ consumables for the entire system and its peripherals, which are not covered under the comprehensive warranty and are essential (in the opinion of supplier) for ensuring trouble-free performance of the system for at least 4 years. Extended comprehensive warranty for a period of minimum next three years should also be quoted.
 - d) Written assurance that the spare parts will be available for atleast 10 years post installation date of the instrument.
 - e) Assurance for attending breakdown within short period of time.
- C. Mandatory requirements:**
1. To quote all the desired specifications, in actual, in numerical expression where applicable.
 2. To provide a list of Indian purchaser during last ten years.
 3. To be able to demonstrate the indented specifications on functional laboratory in India on specimen of our choice.

TECHNICAL COMPLIANCE STATEMENT FOR ELECTRON PROBE MICRO ANALYSER (EPMA).

SR. NO.	TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY OF ELECTRON PROBE MICRO ANALYSER (EPMA)	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
A.	<p>General:</p> <p>An automated state-of-the-art Electron Probe Micro Analyzer with five vertical Wavelength Dispersive Spectrometers (WDS), based on digital technology to be used for multi-element analysis (major and trace elements, from B/Be to U) for variety of geological samples. Apart from routine micro-chemical analysis, the equipment will also be used for specialized applications such as chemical dating and in several other projects such as environment studies, metallurgy, etc. The system would involve a high degree of automation with the capacity of prolonged unattended analytical schedules with high analytical precision, accuracy and reproducibility with minimum down-time, high quality imaging at high spatial resolution including multi-element X-ray mapping. Vertical WDS in suitable combinations of LIF, PET, TAP (or equivalent crystals) or special crystals and large diffracting crystals. Beam current regulations suitable for accurate trace element analysis. Reflected and transmitted microscopy system with polarizer, analyzer and variable field of view. Automatic Z focusing, high resolution TV camera and monitors for separate displays. Vacuum system with safety devices, Window (PC) based operating control system. All operational software including those for chemical dating of minerals and X-ray mapping. Suitable standards for REE, metals, sulphides, oxides, chemical dating and PGE analyses. Spares, Comprehensive warranty and training.</p>		
1)	<p>Performance specifications</p> <p>Detectable element range: B/Be to U</p> <p>Accelerating Voltage range: 0.2 to 30 KV or higher in steps of 0.5V or less.</p> <p>Probe/Beam Current range and Stability: 10pA or lower to 500nA or better. Beam current stability of $\pm 0.1\%$ or less per hour with $\pm 0.5\%$ or less over 12 hours for reliable, reproducible and accurate unattended analysis, high beam current regulation from 0.5 to at least 300nA or better for trace element analysis. Since trace element determination is an important projected work component, the Rowland Circle should be higher for high atomic number resolution of trace quantities. Beam diameter adjustable with minimum possible variation.</p>		

2)	<p>High Stability Electron Column and Gun with inter-changeable W filament and LaB6 cathodes and adaptability to Field Emission Gun (FEG).</p> <p>High vacuum in column for longer life of filament and current stability, preferably with separate pumping devices.</p> <p>Electron optical column with suitable electromagnetic lenses for focusing electron beam, liner tube for elimination of stray electrons, Faraday cage, range of automated/manual functions for column-alignment, focus, estimation, correction, beam size resolution, etc.,</p>		
3)	<p>Secondary electron detection and imaging system with a SEI resolution of 6 nm (W) and 5nm (LaB6) or better</p>		
4)	<p>Backscatter electron detector & imaging system with topographical, compositional display, BSE/ BSI resolution of about 15 nm or better at 25kV.</p>		
5)	<p>Optical Microscopy system: Reflected and transmitted light viewing with polarizer, analyzer, with zooming capacity and variable field of view, high resolution. Automatic Z focusing, high resolution CCD TV camera.</p>		
6)	<p>Multi viewing capability permitting simultaneous observation of real-time images (optical, SEI, BSEI and software/control systems). Separate monitors for individual displays.</p>		
7)	<p>a) Standards for Rare Earth Elements and Nb b) Geological Standard for silicates, sulphides and PGE and Low atomic number elements c) U, Th, Y and Pb standard block for monazite dating, preferably with dated standard grains. d) standards for Rb and Sr</p>		
8)	<p>Air cooled closed loop water Chiller for EPMA unit, with heavy duty motor capable of continuous running (24 hrs-365 days) with electronic controlled thermostat and flow controls.</p>		
9)	<p>Specimen holders and Shuttle holders:- a) Holders for six 2.5cms blocks-2. b) 1 Sample holders for 4 standard thin sections (46-47 mmx 25-26mm). c) 1 Sample holder for two standard thin sections and two specimens of diameter 25 mm approx. d) 1 Sample holder for 2 specimens with diameter of 34-36mm approx. e) 2 Wehnelt cylinder. f) An additional shuttle</p>		

10)	EDS with solid state detector having 130eV resolution		
11)	Suitable UPS for necessary power requirements (atleast 15 kV) and for one hour back up and water chiller.		
12)	A carbon coating (vacuum evaporation) unit capable of standard make		
13)	Digital stage/point logger & software for transfer of coordinates from microscope to probe (optional)		
14)	Cathode Luminescence system (Optional)		
B.	<u>Installation, training & Warranty:</u>		
	a) Complete installation at user site with all costs included with signature of user on acceptance certificate of equipment.		
	b) Training of personnel: After successful installation of the system and its peripherals, selected scientific and technical personnel should be provided with two stage comprehensive onsite training for i) operation and maintenance at the time of installation ii) application training (3-6 months after installation) and also at the factory site for minimum 2 weeks.		
	c) Five years onsite warranty (upon expiry of initial instrument warranty with free replacement of faulty/defective parts) covering all components including principal manufacturer made and spares. The offer should include all accessories/ spares/ consumables for the entire system and its peripherals, which are not covered under the comprehensive warranty and are essential (in the opinion of supplier) for ensuring trouble-free performance of the system for at least 4 years. Extended comprehensive warranty for a period of minimum next three years should also be quoted.		
	d) Written assurance that the spare parts will be available for atleast 10 years post installation date of the instrument.		
	e) Assurance for attending breakdown within short period of time.		
C.	<u>Mandatory requirements:</u>		
	1. To quote all the desired specifications, in actual, in numerical expression where applicable		
	2. To provide a list of Indian purchaser during last ten years.		
	3. To be able to demonstrate the indented specifications functional laboratory in India on specimen of our choice.		

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, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA) for high precision mineral Chemistry data”** 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, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”**, Tender No., due date and “Part-II Financial bid for **“SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”**, Tender No., due date. Both the bids should be kept in a single cover by super scribing tender for **“SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”**, 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) Quotation should be **valid for a period of 120 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%.

7) 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.

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

A) Foreign Bidders shall submit **EMD** along with their tender **in the form of a bank guarantee** for a sum of US \$ 1900.00 (US\$ One Thousand 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, on any nationalized bank for a sum of ` 1,00,000/- (Rupees One Lakh only) payable at Vasco-da-Gama only **or in the form of a bank guarantee** for a sum of ` 1,00,000/- (Rupees One Lakh 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) Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.

10) 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.

11) 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.

12) 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.

13) **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.

14) 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.

15) 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.

16) **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.

17) 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.

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 **installation and commissioning** 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) **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.

22) 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.

23) 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.

24) Two sets of operational, service/troubleshooting manuals and diagrams to be supplied with **“SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”**.

25) **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.

26) 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.

27) **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.

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

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

30) 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.

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

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

33) 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.

34) 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.

35) 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, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”.

Sr. No.	COMMERCIAL SPECIFICATION FOR SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
1	A list of reputed clients 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 valid for a period of 120 days from the date of tender opening and the period of delivery required should also be clearly indicated.		
5	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.		
6	Foreign Bidders shall submit EMD along with their tender in the form of a bank guarantee for a sum of US\$ 1900.00 (US\$ One Thousand 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.		
7	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 ` 1,00,000/- (Rupees One Lakhe only) payable at Vasco-da-Gama only or in the form of a bank guarantee for a sum of ` 1,00,000/- (Rupees One Lakhe 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.		
8	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.		
9	Please specify the Make/Brand and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.		
10	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.		
11	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.		
12	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.		
13	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.		
14	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.		
15	In case the technical bid contains any direct or indirect reference to quoted price the bid is liable to be rejected.		
16	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:		
17	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 .		
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, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”		
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	<p>Acceptance of this tender form and submission of the quote within the stipulated time would be treated as:</p> <ul style="list-style-type: none"> • The tenderer has understood all requirements as described in our Tender document. • 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. • 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.		

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. Infrastructure facilities required for installation & commissioning attached.**
- r. Technical Specifications/Literature/Brochure attached.**
- s. Tender Acceptance.**

TENDER ACCEPTANCE UNDERTAKING

To

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

Having examined the tender document **for “ SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”** 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 _____ 2014.

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 _____ 2014.

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 Website: www.ncaor.gov.in

GLOBAL 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\$
1	NCAOR/HSS-017/PT-24	SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF X-RAY FLUORESCENCE SPECTROMETER	01	2000/-	50.00	1,00,000/-	1900.00
2	NCAOR/HSS-018/PT-25	SUPPLY, INSTALLATION, COMMISSIONING & TRAINING OF ELECTRON PROBE MICROANALYSER (EPMA)”	01	2000/-	50.00	1,00,000/-	1900.00

Last date for issue of tender documents : **25.08.2014**

Last date for submission of quotation : **26.08.2014**

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. 50.00 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 27.08.2014** 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