

TATA INSTITUTE OF FUNDAMENTAL RESEARCH
Homi Bhabha Road, Colaba, Mumbai – 400 005.
A Deemed University

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Date: 09.02.2018

Notice Inviting Tender cum Tender Document (Two Part Public Tender) for the following items:

Inductively Coupled Plasma Spectrophotometer (ICP-OES) (As per our technical specifications) - Qty. 01 No.
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Public Tender No.	TIFR/PD/IC17-122/PUB
Published on	09/02/2018
Tender Fees	For Indian Supplier - Rs. 500/- For Foreign Supplier - USD 100/-
EMD	For Indian Supplier - Rs.1,71,220/- For Foreign Supplier -USD 2,500/-
Estimated Cost	Rs. 85.61 Lakhs
Type of Tender	Two Part Public Tender
Last date for Submission of Bid	28/02/2018 on or before 17.30 hours
Date of Opening Bids (Part-A)	01/03/2018 on 15.00 Hours

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope superscribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

Note: All future corrigendum/addendum will be published in TIFR/CPPP website only. All prospective bidders are requested to visit our website regularly for any such updates/Corrigendum/Addendum.

ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR,MUMBAI

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Technical Specifications for Inductively Coupled Plasma Spectrophotometer (ICP-OES)

An ICP spectrometer system, bench top model with compact size (< 7 sq. ft.), able to determine trace elements in diverse samples including proteins, peptides, small molecules, extended and nano materials. System should be able to determine, major, minor and trace elements in single run measurement.

Spectrometer: Fully PC controlled ICP-OES with following specifications:

1. Capable of multi-element analysis with preferably 1 ppb and at least 10 ppb sensitivity for each element.
2. Simultaneous Radial and Axial ICP-OES system, should be capable of addressing high matrices without the need of dilution.
3. The instrument must be equipped with polychromator or preferably dual monochromators for the best accuracy and precision.
4. Instrument should be equipped with a Charge Coupled device (CCD) Detector/Charge injection Device (CID). The actual resolution (not the pixel resolution) of the system must be less than 0.009 nm at 200 nm.
5. The spectrophotometer must cover full spectral range from 165-840 nm.
6. The system should include complete dual viewing optics under computer and software control. Any wavelength needed should be operable in radial, axial or mixed viewing modes in a single run.
7. Free running solid state RF generator (adjustable) must run at frequency of 27.12 MHz or 40 MHz with suitable power wattage adjustable from 1000 to 1500 watts in 1 watt increment.
8. Computer Mass flow control for Plasma, Auxiliary & Nebulizer gases should be available.
9. The power efficiency of RF generator should be greater than 81% with < 0.1% variation in output power stability.
10. System should have online background correction.
11. The system must be able to read and apply both manual and automatic spectral interference corrections in addition to background correction.
12. System should have the low Argon gas consumption (<10 L/min).
13. System should have a low warm up time, preferable within 15 min.
14. System should have maintenance free provision to remove the tail plume of plasma.

15. Auto-sampler capable of handling up to 150-200 samples must be included.
16. Microwave sample digester should be included (see specifications below).
17. The following additional spares should be supplied along with the system: 2 additional torch kits; 2 additional alumina, 1 additional quartz and 2 additional sapphire injectors; 1 additional spare nebulizer/spray chamber; 1 additional sample introduction kit., extra tubing.
18. Aqueous standards for Mn, Fe, Cu, Si, Pd, Pt, Ca, Au , Rh, Ru, Ti, Ta, Ni, Zn, Al, should be included.
19. System should be quoted with 5 year warranty inclusive of all parts.
20. Vendor should supply suitable Chiller re-circulator of appropriate capacity along with the system with warranty of minimum 3 years.
21. Air compressor and purification panels for argon and nitrogen should be included should be included. The vendor should take care of the installation of ducting from the gas cylinders to the instrument.
22. Hydride generator kit should be included for hydride forming elements like As, Hg, Se.
23. Suitable Fume exhaust system should be quoted.
24. UPS of 15KVA with 30 min. backup should be quoted.

Specifications for Microwave sample digester:

1. Vessel type : 16 vessels
2. Power :Unpulsed Microwave power from 0 to 1400 W using 1 to 2 magnetrons.
3. Built-in software with screen display for Temperature, weight, method search, power profile, and method set-up.
4. TFM type vessel (50 to 100 ml capacity) to be quoted which can withstand up to 40 bars working pressure and 240 °C temperature.
5. Pressure and temperature sensor of immersing type/probe/contact free for one reference to be included in the offer and the same should be provided of control using transducers and gas bulb respectively with wireless transmission.
6. Built-in integrated cooling system for removal of gases and cooling of vessel without use of external chiller/thermostat in less than 20 minutes.
7. System should have in-built pressure venting safety features.
8. System should be quoted with 5 year warranty inclusive of all parts.

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(Deemed University)

HOMI BHABHA ROAD, COLABA, MUMBAI – 400 005

(PURCHASE SECTION)

Terms and Conditions

- PART “A” (Technical Bid) consisting of Technical Bid with Commercial Terms and PART “B” (Financial Bid) consisting of only Price** shall be submitted in **separate** sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Purchase Officer, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai – 400 005. The envelopes should be clearly marked on top as either PART “A” or PART “B”.
The two sealed covers should be further put in a master cover superscribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Purchase Officer, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai – 400 005. The sealed master envelop has to be delivered by hand/courier at the security Gate Officer of TIFR on or before **17.30 hrs on 28/02/2018**. The technical bid will be opened in the presence of attending tenderers at **15.00 hrs on 01/03/2018** at Purchase Section, TIFR Mumbai. Tenders submitted after **17.30 hrs on 28/02/2018** will not be considered.
- In case the PART ‘A’ and Part ‘B’ bids are not sealed in separate envelopes the tender will be rejected.**
- The technical bid should not contain any indication of the price. The bidder should take special care not to mention anything related to pricing and costing aspect of whatsoever nature. The technical bid should include/contain only technical specifications, technical literature, drawing, quantity, manufacturing and delivery schedule, mode and terms of payment, mode of despatch, the quantum and percentage of statutory levies payable by the purchaser as extra and all related commercial terms and conditions for the supply and for the services like erection and commissioning to be rendered by the tenderer. The details of the validity of the tender should also be indicated along with the commercial details.
- After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.
- Tender Document Fee:**
An Tender fee for **Rs. 500/-[for Indian Supplier]** and **USD 100 [For foreign Supplier]** (Non-refundable) has to be deposited in the form of Demand Draft, Fixed Deposit Receipt, Bankers cheque or Bank Guarantee from any commercial Banks or through online transfer through bank (Bank details to be provided on demand) in favour of **Registrar, Tata Institute of Fundamental Research, Mumbai** to be enclosed along with the technical Bid (Part - A).

6. **EMD:**
An Money (EMD) for **Rs. 1,71,220/- (for Indian Supplier)** and **USD 2,500/- (for Foreign Supplier)** has to be deposited in the form of Demand Draft, Fixed Deposit Receipt, Bankers cheque or Bank Guarantee from any commercial Banks or through online transfer through bank (Bank details to be provided on demand) in favour of **Registrar, Tata Institute of Fundamental Research, Mumbai** to be enclosed along with the technical Bid (Part - A).

Also, in lieu of above, the bidder can submit the EMD in the form of "Bid Securing Declaration" as per the attached format. The declaration also should be submitted on the company letter head duly signed by officer authorized to submit the bid.

EMD shall be interest free and it will be refunded to the unsuccessful bidder without any interest. EMD will be forfeited if the bidder withdraws or amend impairs or derogates from the tender in any respect.

7. **Suspension of Business dealing with bidder:**

In case the bidder who submits a "Bid Securing Declaration" fails to abide with the terms and conditions of the declaration or withdraw its bid before the award of the contract then TIFR reserve the right to suspend business dealings with such supplier for a period of three years. The above suspension shall be without prejudice to other remedies or action that may be initiated against the bidder as deemed fit by the competent authority.

8. **Bidders who have not accepted the job/order awarded to them or withdrawn from the tender process OR whose EMD/Security deposit has been forfeited in the past their bids will not be considered and treated as ineligible / disqualified.**

9. After downloading the documents please inform your company details such as name, address, telephone nos., contact person and email address etc. by email to us. (deepak.baghele@tifr.res.in, sheela@tifr.res.in, mukesh.suroshe@tifr.res.in, triveni@tifr.res.in) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.

10. Quotations must be valid for a period of 180 days from the due date.

11. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.

12. Tenderer should sign on all the pages of the technical bid and the price bid.

13. The price quoted for Import item must be on following basis :

- a) Ex-Work/factory duly packed airworthy/seaworthy and of international standard.
- b) FOB/FCA

C) CIF Indian Port (all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)

For local item /supply, offer should be on FOR basis (i.e. total landed cost for delivery at TIFR, Mumbai).

The dimension of the item (viz. H, W, L, weight etc.) shall be specifically stated and also mention whether the mode of shipping the item is Airworthiness / Seaworthiness or both. Accordingly the mode of shipment will be decided by TIFR.

Price must be quoted in the Price Bid Format attached herewith as "Part – B" (Financial Bid).

14. If equipment offered is to be imported, arrangements for import will be made by us.
15. Tenders who do not comply with any of the condition are liable to be rejected.
16. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.
17. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.
18. **PAYMENT TERMS:** 80% payment shall be made through irrevocable L/C on presentation of complete and clear shipping documents and balance 20% of the amount shall be released after the receipt, installation, commissioning and acceptance of the equipment and on submission of "**Performance Bank Guarantee**" or "**Standby Letter of Credit**" for an amount equivalent to 10% of the Purchase Order Value. The PBG or "Standby Letter of Credit" shall be valid for a period of **60 days** beyond the date of warranty period.
 - Bank Guarantee(BG) will not be accepted directly from Supplier, it should be received through the banker of supplier.
 - In exception case, BG will be accepted directly from the party/supplier provided a covering letter with xerox copy of BG is received directly from banker of supplier.
 - Without the receipt of BG along with the letter from Bank, the payment will not be released.
19. For Import cases: **No Agency commission will be paid as per Govt. of India rules.**
20. The delivery period should be specifically stated and earlier delivery may be preferred.
21. **The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty.**
 - a. In case of delay in supply on part of the supplier, a penalty @0.5% per week of order value will be charged for delayed period subject to a maximum of 10% order value.

- b. If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the TIFR, Mumbai shall have the right to cancel the contract / purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.
 - c. The same rate of penalty shall be applicable for late installation of the equipment/instrument also.
- 22.COMMENCEMENT OF WARRANTY PERIOD: The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site.
- 23.Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer.
- 24.OBSERVANCE OF LOCAL LAWS: Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/ contractor shall obtain all necessary permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may be leviable on account of any the operations connected with the execution of this work/ contract.
- 25.In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR shall be final and binding on the bidder.
- 26.It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR as the end user. All clarificatory documentation must be submitted with the Bid.
- 27.TIFR reserve the right to ask for or to provide any clarification, changes after the release of this tender. **Any changes or clarifications provided by TIFR may be checked at TIFR website www.tifr.res.in/tenders**

ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR, MUMBAI

TIFR Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

Part 'B'

Financial Bid

Financial Bid (Bidders must quote their rates using this Format)

Sr. no.	Item Description as per the Tender/Inquiry	Make/Brand/ Type	Rate per unit	Qty	Basic Cost of main item (In Currency)_____
A					
B	Cost of Calibration kit for 05 Years				
C	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
D	FOB /FCA Cost (Name of Airport_____)				
E	CIP/CIF Cost (Upto Mumbai Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				
	AMC: The cost of AMC for Five years				

NOTE:

1. All the column should be appropriately filled and not left blank
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item,
3. Any accessories, optional items should be shown separately using above format.
4. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.
5. Prices quoted in Indian Currency should be on F.O.R. basis and mentioned separately using different table format showing all the applicable taxes/Duties like CGST,SGST,IGST, Freight & Transportation charges and installation charges etc.
6. TIFR being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address, contact no
& Email id of the
Bidder/Company
with company's stamp or
seal

Date:

Place:

Bid Securing Declaration

(to be submitted on company's letter head)

I/We the undersigned hereby declare that if we withdraw or modify the bids during the period of its validity, or if we are awarded the contract and fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document or fail to execute the contract, we will be suspended for the period of time specified in the request for bids document from being eligible to submit bids for contracts with the entity that invited the bids.

Name and Signature
of Authorized Signatory
and Company Seal