

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Centre for Interdisciplinary Sciences

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Date: 26-12-2016

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

Supply, Installation, Commissioning of Field Flow Fractionation-Multi Angle Light Scattering and dynamic light scattering (FFF-MALS-DLS) system along with accessories

As per our technical specifications: Qty. - 1 No.

Public Tender No.	TFR/PD/IC16-615/0030
Published on	28-12-2016
Tender Fees	For Indian Supplier - Rs. 700/-
	For Foreign Supplier - USD 100
EMD	For Indian Supplier - Rs. 3,20,000/-
	For Foreign Supplier - USD 4710
Estimated Cost	Rs. 160.00 Lakhs
Last Date for Submission of Bid	24-01-2017 upto 13.00 Hrs.
Date of Opening Bids (Part A)	24-01-2017 at 16.00 Hrs.

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 super scribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

**ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR-TCIS, HYDERABAD**

SCOPE OF SUPPLY - Annexure - A

Technical specifications for Supply, Installation, Commissioning Field Flow Fractionation-Multi Angle Light Scattering and dynamic light scattering (FFF-MALS-DLS) system along with all the accessories.

The system should be offered with the following components and configuration:

Field Flow Fractionation-Multi Angle Light Scattering and dynamic light scattering (FFF-MALS-DLS) system along with all the accessories for highly sensitive measurement of R_g , R_h and M_w of proteins and nanoparticles in a heterogeneous solution mixture.

Compulsory accessories: RI detector, compatibility kit for connecting to a SEC system, complete software package along with a workstation computer for operation of the instruments and analysis of data and other accessories such as tubings, fittings, solvent organizer, membranes, degasser, filter kits, protein standards, channel cartridges and membranes for asymmetric flow and hollow fiber FFF etc.

Optional accessories: viscometer, auto sampler.

Specifications:

FFF specs:

- The FFF system shall be offered on the same platform, in two formats- Hollow Fiber and Asymmetric Flow-FFF techniques for separation of proteins, aggregates, nanoparticles etc. in aqueous solvent.
- FFF and MALS should be controlled by the same software or the software should be compatible with each other.
- Separation range 1 nm to 10 microns.
- Temperature range 5-90 Celsius typical.
- Focus technology to avoid band broadening of larger sample volumes.
- Inner channel diameter approx. 400 micron.
- Max pressure 30 bar or more.
- Pumps should produce constant flow without any pulsation.

MALS specs:

- Laser light source with controllable power.
- Minimum 17 detectors for MALS detection.
- Mass range: typically 200 Da to 1 GDa.
- Size range typically 10 nm to 0.5 micron.
- Sensitivity of detection 0.4 microgram/ml of BSA or better.
- Measurement modes: online and batch mode.

- Temperature range-ambient plus heating option is preferred.
- Detector resolution 24 bit.
- In built ultrasonic cleaning module for automatic cleaning of the flow cell is preferred.

DLS specs:

- DLS system fully integrated with the MALS System for both online and off-line measurements is preferred. In case DLS module is separately provided the instrument must be compatible with the entire FFF-MALS system so that same sample can be measured in all three systems.
- For separate DLS module it should be able to measure zeta potential of proteins and macromolecules.
- Autocorrelator with 512 or more tau channel, size range 1-300 nm or better.
- Sensitivity 0.1 mg/ml of lysozyme.
- Temperature 0-90 Celsius.

Compulsory accessories

- A) Refractive Index (RI) detector: Differential RI detector should be able to generate dn/dc measurements on the protein samples and compatible with MALS detector for measurement of absolute molecular weights.
- B) Adapter kit for SEC compatibility: The MALS/DLS/RI detectors should be compatible with commercial HPLC systems for SEC-MALS/DLS experiments. If necessary a full compatibility kit must be supplied.
- C) A complete software package along with a workstation computer for operation of all the detectors and analysis of data.
- D) Channel cartridges and membranes for asymmetric flow FFF and hollow fiber FFF for analytical and/or semi preparative measurements of protein solutions. All other consumables for sample and solvent handling such as tubings, fittings, solvent organizer, membranes, degasser, filter kits, protein standards etc.

Optional accessories:

- A) High sensitivity differential Viscometer for measurement of intrinsic viscosity for determination of molecular weight, size and structure.
- B) Autosampler for automatic injection of samples of different volumes etc.

Optional Items/Accessories: The optional items will not be considered for evaluation of lowest bidder. The Optional items may be procured based on requirement from the techno commercially qualified lowest bidder.

Relocation of the equipment: Dismantling of equipment, Shifting/transportation of material from TCIS transit campus to TCIS, FReTB new campus, Reinstallation, calibration of equipment and successful commissioning is supplier's scope if any. However a separate quote for this relocation may be provided along with the financial bid with the minimum validity period of one year extendable further if required from the date of installation of the instrument. This quote will not be considered for evaluation of lowest bidder.

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(PURCHASE SECTION)

Terms and Conditions

1. **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, 21, Brundavan Colony, Gandipet Road, CBIT Post Office, Hyderabad -500 075. 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, 21, Brundavan Colony, Gandipet Road, CBIT Post Office, Hyderabad - 500 075. The sealed master envelop has to be delivered by hand/courier at the security Gate Office of TIFR-TCIS on or before 13.00 hrs. on the due date specified. The technical bid will be opened in the presence of attending tenderers at 16.00 hrs. on the due date at Purchase Section, TIFR-TCIS, Hyderabad. Tenders submitted after 13.00 hrs. on due date will not be considered.

2. **In case the PART "A" and Part "B" bids are not sealed in separate envelopes the tender will be rejected.**
3. 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 dispatch, 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.
4. 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.
5. **Tender Document Fee:**
 - a) **For Indian Supplier:** Tender fee for **Rs. 700/-** (Non-refundable) in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part - A).

b) **For Foreign Supplier:** Tender fee of **USD 100** (Non-refundable) in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part A).

6. **Earnest Money Deposit (EMD):**

a) **For Indian Supplier:** Earnest Money Deposit (EMD) for **Rs. 3,20,000/-** in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed along with the technical Bid (Part - A).

b) **For Foreign Supplier:** Earnest Money (EMD) for **USD 4710** in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part - A).

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. **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.**

8. 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. (harid@tifrh.res.in, srinub@tifrh.res.in) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.

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

10. 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.

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

12. 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 Hyderabad, Airport 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-TCIS, Hyderabad).

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-TCIS.

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

13. If equipment offered is to be imported, arrangements for import will be made by us.
14. Tenders who do not comply with any of the condition are liable to be rejected.
15. 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.
16. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.
17. **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 (PBG)**" 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. The PBG should be from State Bank of India & Associates (or) any one of the Nationalized Banks.
18. For Import cases: **No Agency commission will be paid as per Govt. of India rules.**
19. TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, Excise Duty under the notification No.10/97 dated 01.03.1997, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Excise & Custom duties, if any, should be shown separately.
20. **SALES TAX:** TIFR does not have any exemption/concession on payment of Sales Tax/VAT and we are not authorized to issue any Sales Tax Form 'C' & 'D'
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-TCIS, Hyderabad 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. **ANNUAL MAINTENANCE CHARGES:** The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period.
24. 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.
25. **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 account of any of the operations connected with the execution of this work/ contract.
26. In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR TCIS shall be final and binding on the bidder.
27. It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR TCIS as the end user. All clarificatory documentation must be submitted with the Bid.
28. TIFR TCIS reserves the right to ask for or to provide any clarification, changes after the release of this tender. Any changes or clarifications provided by TIFR-TCIS, Hyderabad may be checked at TIFR-TCIS website: <http://www.tifrh.res.in/index.php/commercial-tenders>

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Financial Bid for Field Flow Fractionation-Multi Angle Light Scattering and dynamic light scattering (FFF-MALS-DLS) system with accessories (Part - B)

Annexure - C

TIFR- TCIS Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

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

S.No.	Item Description as per tender	Make/Brand/ Type	Qty.	Rate per unit (Currency)	Basic Cost of main item (In Currency)
A.					
B.	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C.	FOB /FCA Cost (Name of Airport_____)				
D.	CIP/CIF Cost (Upto Hyderabad Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				

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 Excise, VAT, service Tax, Freight & Transportation charges and installation charges etc.
6. TIFR-TCIS 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: _____