



TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Homi Bhabha Road, Colaba, Mumbai 400 005.
Autonomous Institution of the Department of Atomic Energy, Government of India
(A Deemed University)

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Date: 05.01.2022

To,
M/s. Cytiva
Bjorkgatan 30.
751 84 Uppsala,
Sweden.
Email supportdesk.india@cytiva.com

Notice Inviting Tender (One Part Single Quote Tender) for the following items:

Sr. No.	Item Description	Qty.
1.	Liquid Chromatographic System for Bio-Molecular separation (as per attached technical specifications)	01 No.
Tender No.		TIFR/PD/IC21-57/211534
Published on		05.01.2022
Type of Tender		One Part Single Quote Tender
Estimated Cost		Rs. 58.11 Lakhs
Last date for Submission of Bid		19.01.2022 on or before 17.30 hours
Date of Opening Bids		20.01.2022 on 15.00 Hours

Tender should be submitted in One sealed envelope duly superscribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

ADMINISTRATIVE OFFICER
(PURCHASE SECTION)

cc: M/s. Cytiva
Hyclone Life Sciences Solutions India Pvt. Ltd.
DHR India Holding Pvt. Ltd. 3rd floor, B-wing,
Art Guild House, Phoenix Market City,
Kurla (West), Mumbai 400070.
India.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

(Deemed University)

HOMI BHABHA ROAD, COLABA, MUMBAI – 400 005

(PURCHASE SECTION)

Terms and Conditions

1. The quotation shall be submitted in one sealed envelope duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Admn. Officer (Purchase), Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai – 400005. The envelopes should be clearly marked on top as the Tender Enquiry No., Due Date in bold letters. The sealed envelope has to be delivered by hand/courier at the Security Gate Officer of TIFR on or before on the due date specified. Tenders submitted after last date will not be considered.
2. 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, vishakha@tifr.res.in, triveni@tifr.res.in, rohini.pawar@tifr.res.in) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.
3. Quotations must be valid for a period of 90 days from the due date.
4. 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.
5. Tenderer should sign on all the pages of the tender.
6. The price quoted for Import item must be on one of the following basis:
 - Ex-Work/factory duly packed airworthy/seaworthy and of international standard.
 - FOB/FCA
 - 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

7. If equipment offered is to be imported, arrangements for import will be made by us.
8. Tenders who do not comply with any of the condition are liable to be rejected.
9. 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.

10. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.
11. This warranty shall remain valid for **03 years** after the Goods or any portion thereof as the case may be, have been delivered, installed & commissioned and accepted at the final destination indicated in the Contract.
12. **PAYMENT TERMS:** In case of Importer, 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 3% 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.
13. For Import cases: No Agency commission will be paid as per Govt. of India rules.
14. TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honoured by the authorities, the applicable duty will have to be paid. Hence Custom duties, if any, should be shown separately. TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 47/2017 and 45/2017 dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.
15. The delivery period should be **1-2 months** and earlier delivery may be preferred.

16. Submission of the bids, EMD & Tender Fees:

- A) A Money (EMD) for **Rs. 00/-**(for Indian Supplier) and **USD 00/-**(for Foreign Supplier) has to be deposited in the form of Demand Draft, Fixed Deposit Receipt, Bankers cheque 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 Bid.

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.

- B) Micro and Small Enterprises (MSEs):

- a) Micro and Small Enterprises (MSE) must, along with their offer, provide proof of their being registered as MSE (indicating the terminal validity date of their

registration) for the item tendered, with any agency mentioned in the notification of the Ministry of Micro, Small and Medium Enterprises (Ministry of MSME).

- b) The MSEs are exempted from payment of earnest money and tender fees subject to furnishing of relevant valid certificate for claiming exemption as per privilege rules of Government of India.
- c) The bidder submits registration of Udyog Adhar Memorandum (UAM) by Ministry of Micro Small and Medium Enterprises (MSME) vendors on Central Public Procurement Portal (CPPP). The bidders who fail to submit UAM number shall not be able to avail the benefits available to MSEs as contained in Public Procurement Policy for MSEs Order 2012 issued by MSME.
17. Bidders who have not accepted the job/order offered to them or withdraw from the tender process or whose EMD/Security deposit has been forfeited in the past will not be considered for this tender.
18. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty.
- 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.
 - 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.
 - The same rate of penalty shall be applicable for late installation of the equipment/instrument also.
19. 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.
20. ANNUAL MAINTENANCE CHARGES: The bidder shall quote the rate/amount of annual maintenance charges separately, however AMC shall be an optional, TIFR may or may not opt for it.
21. 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.
22. 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 liveable on account of any the operations connected with the execution of this work/ contract.

23. In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR shall be final and binding on the bidder.
24. 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.
25. TIFR 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 may be checked at TIFR website: **www.tifr.res.in/tenders**

ADMINISTRATIVE OFFICER
(PURCHASE SECTION)

Technical Specifications for Liquid Chromatographic System for Bio-Molecular separation

1. The system should deliver flow rate of 0.001 mL/min to 20 mL/min without need for changing pump-heads for the entire flow range and pressure limit of 20 MPa.
2. The system must have Conductivity Monitor of range 0.01 mS/cm to 999.99 mS/cm with an accuracy of ± 0.01 mS/cm.
3. System should have piston pumps for high performance and long life and should have an accuracy of $\pm 1.2\%$.
4. System should be capable of delivering up to 40 mL/min, if needed during the process, without the need of any physical modifications.
5. System should have the capability of running with automatic pressure-flow modulation option.
6. System pump must be capable of delivering solutions/mixtures with viscosity between 8 to 10 cP.
7. The system must have an in-line mixer equipped with magnetic stirrer to ensure accurate mixing of buffers. A mixer volume between 1.4 mL to 1.5 mL is mandatory.
8. The system should be inert biocompatible system for all purification and development work from microgram to gram scale.
9. The UV flow cell must have a cell volume of not more than 2 μ L for maximum sensitivity).
10. The UV lamp should not require any start-up time or warmup time and should not heat the sample/ protein.
11. The system must have Xenon flash lamp in UV monitor as light source with fiber optics with multiple wavelength detection up to 3 wavelengths simultaneously from 190 to 700 nm from a single lamp source.
12. The system must be supplied with following pre-packed columns:
 - One each of strong cation, strong anion, weak cation and weak anion 1 mL columns.
 - 5 high performance 5 mL columns for histidine tagged protein purification.
 - 5 high performance 5 mL columns for purifications of glutathione S-transferase tagged proteins.
 - One 30 cm long prepacked gel filtration column for preparative separation of biomolecules with exclusion limit molecular weight 1300000 Da and fractionation range molecular weight $\sim 10\ 000$ to $\sim 600\ 000$ Da.

- One 30 cm long prepacked gel filtration column for preparative separation of biomolecules with fractionation range molecular weight ~ 100 to ~ 7000 Da.
13. The Xenon UV lamp must have an operating life of more than 5000 hours with a linearity of $\pm 2\%$ within 0 to 2000 mAU, which is standard detection range for most of the biomolecules.
 14. The UV module of the system must be able to read absorbance range from -6000 to +6000 mAU.
 15. To save the operational life of the UV, the system must have option to switch off the UV, when desired.
 16. A flow restrictor should be present in the flow path to generate a back pressure that prevents the formation of air bubbles in the UV flow cell.
 17. The system must be supplied with one outlet valve having 3 outlet option.
 18. The system must be provided with software that works on a single software platform with full networking capabilities and has capability to be controlled through an independent desktop or laptop computer.
 19. The software must have both user programmable and pre-defined application protocols and method templates. In addition, the software should have capability to be upgradable to different modules for multivariate analysis such as design of experiments functionality for method development and optimization.
 20. The software must have a detailed evaluation segment for peak integration and evaluation, peak smoothening, peak offset adjustment, peak differentiation, peak addition and subtraction, peak overlay comparison of results and automated quantification of peak fractions.
 21. The system should be supplied with a spiral type fraction collector having following properties:
 - Minimize spillage using Drop Sync technique.
 - Allows collection of up to 175 fractions.
 - Allows use of 3, 8, 15 and 50 mL tubes.
 - Fraction volume 0.1 to 50 mL.
 - Automatic peak recognition using control software.
 - Fraction collector should be capable of being used in time, volume or peak recognition mode.
 - Allows using flammable liquids/solvents.
 22. The system should have upgradable modular capability to be integrated using I/O box with third party Detectors and Auto samplers.
 23. The system should have upgradable modular capability of having 2 UV monitors installed at the same time for giving flexibility and increased application capability for using small and large flow cells simultaneously to detect low concentration and high concentration proteins for increased application flexibility post-purchase.
 24. The system should have an option of upgrading to column control valve which allows connection of one column or multiple columns and has an integrated bypass

function, which enables washing of the system without removing the column and allows reverse flow for increased application flexibility post-purchase.

25. The system should accompany a branded desktop computer (HP or Dell) with minimum of following configuration
 - Hard disk (500 GB), i5 processor, LCD monitor (min 17”), Licenses version of Windows 10 operating system, RAM 4 GB.
26. The annual maintenance of the system should be three years comprehensive and two years non-comprehensive.
Delivery time of the system should be within 1-2 months after releasing the purchase order.

TIFR Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

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	Liquid Chromatographic System for Bio-Molecular separation (as per attached technical specifications)			1 No.	
B	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C	FOB /FCA Cost (Name of Airport_____)				
D	CIP/CIF Cost (Upto Mumbai Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				
E	DDP, PRICE TIFR Mumbai				

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 SGST, CGST, 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