

# TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Autonomous Institution of the Department of Atomic Energy, Government of India  
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**June 12, 2018**

Notice Inviting Tender cum Tender Document (One Part Limited Tender) for the following items:

Sr. No.	Item Description
1.	Optical Cryostat System ( As per attached Specifications)

Tender No.	TIFR/PD/IC18-12/180376
Published on	12/06/2018
Type of Tender	One Part Limited Tender
Estimated Cost	Rs. 20.55 Lakh
Last date for Submission of Bid	27/06/2018 on or before 17.30 hours
Date of Opening Bids	28/06/2018 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)

# **TATA INSTITUTE OF FUNDAMENTAL RESEARCH**

## **Technical Description:**

### **Application Information**

We are looking for an optical cryostat system to use with our spectroscopy set up which is to be placed on vibration isolation table.

- Sample size will be  $\leq 10\text{mm} \times 10\text{mm}$ .
- Laser source & detector will be placed  $90^\circ$  apart from each other.
- Edge of the sample (area of interest) should have optical access from 2 different set of windows, one for laser source & other for detector, Distance of sample edge from both laser source & detector must be as less as possible, but cannot be more than 10mm.
- Weight of the cryostat should not be more than 8kgs (excluding transfer line) so that it can be placed on xy stage.
- Optical cryostat should reach temperature of 2.5k or lower (with LHe) and 80K or lower (with LN<sub>2</sub>) at sample mount.
- Cool down time to 10K should be less than or equal to 30 minutes with cryogen consumption of  $\leq 0.75\text{L/hr}$ . (LHe) at 5K.
- Temperature stability at base temperature should be  $\leq \pm 50\text{mK}$

### **The system should include:**

- Standard vacuum jacketed, high efficiency liquid helium transfer line with 72" flexible section, 56" long storage dewar leg, integral cryopump, ice filter, and helium flow controls valve;
- Cold finger with 01.25" diameter copper sample mount, 50 ohm control heater, and one (1) standard curve silicon diode temperature sensor installed at the sample mount.
- Instrumentation skirt with one (1) 10 pin electrical feedthrough for heater and temperature sensors, three (3) blank feedthrough ports, evacuation valve and safety pressure relief valve.
- Optical vacuum shroud having two epoxy sealed IR-grade quartz windows and two epoxy sealed, CaF<sub>2</sub> windows.
- Gold plated (over Ni), OFHC sample holder
- Radiation shield should have optical holes of  $\geq 10\text{mm}$  for optical access.
- Adapter for the cryostat to a Newport-style jack.

- Technically drawing of the system must be provided with the technical bid for evaluation of suitability of offered system for our application.
- Vendor may be invited to discuss the details of the technical drawing and its compatibility with our setup.
- All necessary accessories such as dewar, temperature controller & vacuum pump must be quoted.
- All of the above items should be fully tested to assure proper interfacing and smooth performance of the complete system & test results to be shared with us before shipment. All interconnecting lines and fittings required for functioning of the system should be shipped with the system.
- Vendor must have at least 50 installation of continuous flow optical cryostat systems operation worldwide, and at least 8 installations in India. Vendor must provide list of the minimum 8 existing Indian customers of similar cryostats with their email id's.
- The vendor must have an office in Mumbai which houses an employee trained in technical expertise relevant to the cryostat.
- Minimum 3-year warranty for OEM manufactured components & minimum 1-year warranty for all other components.

# **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, sheela@tifr.res.in, triveni@tifr.res.in, mukesh.suroshe@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 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. 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.
- 12.** For Import cases: No Agency commission will be paid as per Govt. of India rules.
- 13.** 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 honored 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.
- 14.** The delivery period should be specifically stated and earlier delivery may be preferred.
- 15. 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.**
- 16. 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.
- 17. 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.
- 18. 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.
- 19.** 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.
- 20. 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 liable on account of any the operations connected with the execution of this work/ contract.

- 21.** In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR shall be final and binding on the bidder.
- 22.** 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.
- 23.** 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](http://www.tifr.res.in/tenders)

ADMINISTRATIVE OFFICER  
(PURCHASE SECTION)

TIFR Enquiry No & Date: \_\_\_\_\_

Due date: \_\_\_\_\_

**PRICE BID**

Bidder's Quotation Ref No. & Date: \_\_\_\_\_

**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	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C	FOB /FCA Cost (Name of Airport_____)				
D	CIP/CIF Cost ( Up to Mumbai 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 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:**

\_\_\_\_\_