

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District.
Hyderabad - 500 107, Telangana, India.

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Date: 16-12-2019

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

**Supply, Installation, Commissioning of Turbo Molecular Pumps for UHV
Application for TIFR Hyderabad.**

As per our attached technical specifications.

Public Tender No.	TFR/PD/IC19-32/190729
Published on	17-12-2019
Tender Fees	For Indian Supplier - Rs. 500/- For Foreign Supplier-USD 100
EMD	For Indian Supplier - Rs. 81,700/- For Foreign Supplier - USD 1141/-
Estimated Cost (Estimated cost upto TIFR, Hyderabad inclusive of all applicable charges)	Rs. 40,85,000/-
Last Date for Submission of Bid	21-01-2020 upto 13.00 Hrs.
Date of Opening Bids(Part A)	21-01-2020 at 15.00 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.

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

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

SCOPE OF SUPPLY – Annexure A

Technical Specifications for Supply, Installation, Commissioning of Turbo Molecular Pumps for UHV application for TIFR Hyderabad.

Technical Requirements and Specifications

(1) Turbo molecular pumps for UHV application with following specifications and features:

Quantity: 3

- Flange size: DN CF 63
- Pumping speed for Helium: 55 liters/sec or greater (greater pumping speed preferred)
- Ultimate pressure: 5e-10 mbar or lower
- Air cooling kit
- Electronics control unit for the pump with display unit and necessary cables
- Splinter shield
- Manual venting option needed (automatic venting not needed)

(2) Turbo molecular pump with high compression ratio for light gases (helium and hydrogen) for UHV application with following specifications and features:

Quantity: 1

- Flange size: DN CF 150
- Pumping speed for Helium: 600 liters/sec or greater
- Pumping speed for Hydrogen: 500 liters/sec or greater
- Compression ratio for Hydrogen: 2e7 or better
- Ultimate pressure: 1e-10 mbar or lower
- Air cooling kit
- Electronics control unit for the pump with display unit and necessary cables
- Splinter shield
- Manual venting option needed (automatic venting not needed)

(3) Turbo molecular pump for differential pumping stages with following specifications and features:

Quantity: 1

- Flange size: DN CF 100
- Pumping speed for Helium: 400 liters/sec or greater
- Ultimate pressure: 5e-10 mbar or better
- Air cooling kit
- Electronics control unit for the pump with display unit and necessary cables
- Splinter shield
- Manual venting option needed (automatic venting not needed)

(4) Turbo molecular pump for molecular beam source chamber (high vacuum) with following specifications and features:

Quantity: 1

- Flange size: DN CF 200
- Pumping speed for Helium: 1200 liters/sec or greater
- Ultimate pressure: 1e-7 mbar or better
- Air cooling kit (if applicable)
- Electronics control unit for the pump with display unit
- Appropriate cables for the pump controller
- Splinter shield
- Manual venting option needed (automatic venting not needed)

(5) Dry vacuum pump for Roots Backing pump for UHV chamber

Quantity: 1

- Pumping speed for 14 - 20 cum/hr
- Ultimate pressure: 5e-2 mbar or lower
- Air cooled system
- Appropriate cables for the pump
- Capable of continuous 24x7 operation

(6) Backing pump for high vacuum stage:

Quantity: 1

- Two stage rotary vane pump
- Pumping speed for 55 - 65 cum/hr
- Oil sealed version for preventing oil leaks (Optional: Magnetic coupling)
- Ultimate pressure: 1e-2 mbar or lower
- No active water cooling should be required for operation
- Appropriate cables for the pump
- Capable of continuous 24x7 operation
- Oil mist eliminator

Optional Accessories:

(1) Combination Pressure gauges

Quantity: 4

- Active, Pirani + Cold Cathode pressure gauge
- Pressure measurement range: 1000 mbar to 5e-9 mbar
- Mounting flange: DN CF 40

(2) Multichannel pressure gauge controller and display unit for the above combination pressure gauges

Quantity: 1

- Total of 6 controlling and display channels compatible with the above gauges
- USB/Serial interface for communication with external PC
- The 6 measurement channels can be combined in a single unit or can be individual units or in combinations of 2 channels per unit.

(3) UHV compatible nude ion gauge + controller and display unit

Quantity: 1

- Ultrahigh vacuum compatible nude ionization gauge
- Pressure measurement range: 4e-11 mbar to 1e-4 mbar (or better)
- Mounting position: Any
- Mounting Flange: DN CF 40
- Dual filament
- Gauge controller and display unit compatible with this gauge
- USB/Serial interface for communication with external PC
- Necessary cables for the gauge and the controller unit

(4) OFHC Copper gaskets:

- Made from oxygen free high conductivity copper (OFHC)
- Compatible with ultra-high vacuum environment (1e-10 mbar pressure)

Quantity:

DN CF 150: 10 pc

DN CF 100: 30 pc

DN CF 63: 30 pc

DN CF 40: 50 pc

DN CF 16: 30 pc

NOTE:

- 1. The bidder should attach the point by point technical specification provided in the tender in a tabulation format and fill the technical compliance (with additional remarks if any) along with the bid.**
- 2. The bidder should ensure the following:**
 - A. Earnest Money Deposit (EMD), tender fee submission.**
 - B. Attachment of Annexure – B (Audited Annual Turnover Certified by CA).**
 - C. Attachment of Annexure – C (Supplier order details with copy document) along with the bid as per tender terms & conditions.**

Audited Annual Turnover

Annexure - B

S.No.	Financial/ Accounting Year	Profit (Rs.)	Loss (Rs.)	Annual Turnover (in INR)
1.				
2.				
3.				

Authorized Signatory with Seal

Note:

This Audited Annual Turnover (Annexure - B) for the last 3 years should be certified by Chartered Accountant (CA) as per the format given above duly signed and stamped by the CA on their letterhead.

**Supply Order Details of Turbo Molecular Pumps for UHV
application to Other Firms.**

Annexure - C

S.No.	Name of the company with full address	Name of the Project	Purchase Order No. & Date	Brief Item Description with Model No.	Item Value in Currency
	Signature				
	Name				
	Designation				
	Name of the Company				
	Date				
	Seal of the Company				

NOTE:

Please attach the copy documents / purchase order copy for the above mentioned details.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Centre for Interdisciplinary Sciences

Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District.

Hyderabad - 500 107, Telangana, India.

(PURCHASE SECTION)

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 Administrative Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. 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, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. 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 15.00 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. **All the bidders/contractors should provide Company Authorization Letter duly signed and stamped by Competent Authority to participate in the tender related meetings at TIFR Hyderabad.**

6. **Tender Document Fee:**

- a. For Indian Supplier: Tender fee for Rs. 500/- (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).

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

- a. For Indian Supplier: Earnest Money Deposit (EMD) for Rs. 81,700/-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 1141/- 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 orderogates from the tender in any respect.

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 (purchasegroup@tifrh.res.in, jrathna@tifrh.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 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).

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. **Performance Security:** The Successful bidders should deposit @ 10% of Purchase Order value as Performance Security against issue of order/contract to be submitted within 15 days against issue of order/contract. The performance security shall be in the form of Demand Draft in favour of “TIFR Centre for Interdisciplinary Sciences, Hyderabad” payable at Hyderabad (or) Bank Guarantee from State Bank of India & Associates (or) any one of the Nationalized Banks.

The Performance Security will be returned back to the successful supplier on receipt of the Performance Bank Guarantee (or) The 10% Performance Security Deposit may be extended as Performance Bank Guarantee valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

Performance Bank Guarantee: Performance Bank Guarantee for 10% of the value of supply should be provided and it should be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Performance Bank Guarantee should be from Nationalised Bank. In case Performance Bank Guarantee is not provided, 90% payment only would be released and balance after 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

19. **PAYMENT TERMS:** 80% payment shall be made through irrevocable L/C on presentation and receipt of complete, clear shipping documents, against confirmation from TIFR, Hyderabad and balance 20% of the amount shall be released after successful installation, commissioning and acceptance of the equipment certified by purchaser 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.

20. **PAYMENT TERMS FOR INDIGENOUS ITEMS:** 100% payment shall be released after receipt, installation, commissioning and acceptance of the equipment.

21. Repair / replacement if required any during the warranty period, necessary customs clearance charges / customs duty charges, freight charges for sending back the repair material to supplier and import freight charges of replacement should be borne by the supplier.

22. For Import cases: No Agency commission will be paid as per Govt. of India rules.

23. All bank charges outside India to supplier's account only.

24. 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.

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. 45/2017 (CGST) and 45/2017 (IGST) dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.

25. **TAXES:** TIFR does not have any exemption/concession on payment of Sales Tax and we are not authorized to issue any Sales Tax Form 'C' & 'D'.

Deduction of Indian Income Tax Deduction at Source: The Deduction of Indian Income Tax Deduction at source (TDS) will be deducted as per IT Act. The taxes at the time of actual utilization of service etc. will be deducted if applicable any.

GST rule will be applicable with effect from 01.07.2017. The applicable TDS /other charges if any as per GST rule will be deducted as per new GST regime.

TIFR-Hyderabad GST NO: 36AAATT3951F2ZG.

26. Bidders, please provide the PAN No., Bank Details, email ID, Contact person details, GST No etc.

27. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty. Please mention the Delivery Period Clearly in the Bid, however effort to be taken to deliver the materials at the earliest.

- 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.

28. 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.

29. 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.

30. 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.

31. 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.

32. In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR Hyderabad shall be final and binding on the bidder.

33. It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR Hyderabad as the end user. All clarificatory documentation must be submitted with the Bid.
34. 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: <https://www.tifrh.res.in/index.php/commercial-tenders>

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

Financial Bid for Supply, Installation, Commissioning of Turbo Molecular Pumps for UHV application for TIFR Hyderabad.

(Part - B)

Annexure - D

TIFR Hyderabad 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 GST , Freight & Transportation charges and installation charges etc.
6. TIFR Hyderabad 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: _____