



INDIAN INSTITUTE OF TECHNOLOGY Dharwad
Chikkamalligawad, Dharwad, Karnataka - 580011

For the “Supply and Installation of Ultra-high vacuum (UHV) chamber and the mounting stand and flanges (RIMS Facility)” INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

NOTICE INVITING QUOTATIONS FOR LOCAL PURCHASE

1.	LPC No.	IITDH/P1B/MMD/LPC/PHY/2025-26/234	
2.	Description	For the “Supply and Installation of Ultra-high vacuum (UHV) chamber and the mounting stand and flanges (RIMS Facility)” INDIAN INSTITUTE OF TECHNOLOGY DHARWAD	
3.	Specifications	Annexure Attached	
4.	Quantity	Annexure Attached	
5.	Procurement Category	OH-35, Scientific Research Equipment	
6.	Procurement Type	Local Purchase	
7.	Submission of Quotation: by email to armm@iitdh.ac.in		
8.	Cover No.	Cover Type	Description
	1	Techno-Commercial	Techno-Commercial Quotation
9.	Form of Contract	Buy/Supply	
10.	QUOTATION Validity (Days):	30 Days	
11.	Period of Work/Delivery Period (Days)	Delivery period of materials 120 days	
12.	Payment Terms	Within 30 days (Ref Terms of Payment Section II of page no.3)	
13.	Delivery Location	IIT Dharwad Permanent Campus, ChikkamalligawAD, Dharwad-580011, Karnataka, India	
14.	Pin Code	580011	
15.	Quotation Inviting Authority:	Assistant Registrar (MMD), IIT Dharwad Address: IIT Dharwad Permanent Campus, ChikkamalligawAD, Dharwad-580011, Karnataka, India	

Section – I: Instructions to participants

1. **Indian Institute of Technology Dharwad** invites Quotations for the item as mentioned in **Sl. No. 2 of page 1** of this document and as per the **Technical Specifications** given in **Section III** of this document.
2. The participant should note that the **technical specifications** mentioned in **Section III** form the core of the product. The offers must strictly be as per the specifications given. At the same time, it must be kept in mind that mere copying of our specifications in the Quotation shall not make the Quotation eligible for consideration. A Quotation has to be supported with the **original catalogue** of the quoted item(s), duly signed by the **authorized person** participating. Non-compliance with the above shall be treated as **incomplete/ambiguous**, and the quote may be ignored without giving an opportunity to the participant for further **clarification/negotiation**, etc.
3. The participant shall ensure that the quote submitted by him includes **all accessories (as per annexures)** for full execution of the contract. The participant shall not charge extra for additional items required to meet the **operational requirement** at the stage of **installation and commissioning**.
4. Quotations can be submitted through **Email/Speed post/Courier/by Hand**.
5. The participant must submit **all documents required for evaluation of the techno-commercial Quotation**, duly signed and sealed by the **competent authority** of the firm. In the event of **non-receipt of any of the required documents**, the participant may be **disqualified** from the process. The **Quotation or any paper related to the Quotation** will **not** be accepted after the **given deadline** or the **last date published on the webpage of Local Purchase listings**. Further, any **separate correspondence** in this matter shall not be entertained.
6. During evaluation of the quote, the **committee** will scrutinize the documents mentioned above and may forward any or all the documents to the **concerned authorities** for **verification and authentication**. In case any document(s) as submitted by the participant is found/reported to be **fake**, the participant will be out of the **evaluation process** and suitable **legal action** may be initiated against the participant.
7. Besides, scrutinizing the documents submitted with the quote, the participant may be **interviewed** by the **Committee** to assess the **eligibility, capability, and suitability** of the participant.
8. The above-mentioned **basic eligibility conditions and additional clauses** are broad guidelines for **pre-qualification**, and the **Director, IIT Dharwad**, hereby reserves the right to **relax/alter/modify/add any or all the conditions**.

Section - II: General Conditions of Contract

Evaluation of Quotation:

- a) Techno-Commercial Quotation will be evaluated for suitability as per documentary validation, eligibility criteria, and technical specifications laid out in this document. The Quotations found suitable will be recommended by the Committee and, after approval of the competent authority, shall be deemed as technically suitable offers.
- b) In case any participant is silent on any clauses mentioned in this document, IIT Dharwad shall construe that the participant has accepted the clauses of this document, and no further claim will be entertained.
- c) No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of the Quotation.
- d) Any OEM (or their authorized resellers) from a country that shares a **land border with India** will be eligible to participate in this document only if the OEM is registered with the **Competent Authority** in compliance with the **Dept. of Expenditure, Ministry of Finance OM No. F.No.6/18/2019-PPD dated 23/07/2020**, as amended from time to time.

Corrupt & Fraudulent Practices:

IIT Dharwad requires that participants, suppliers, contractors, and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the terms set forth below are defined as follows:

- a) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of in kind/value to influence the action of a public official in the procurement process or in contract execution.
- b) "Fraudulent practice" means a misrepresentation or omission of facts to influence a procurement process or the execution of a contract.
- c) "Collusive practice" means a scheme or arrangement between two or more participants, designed to establish QUOTATION prices at artificial, non-competitive levels; and
- d) "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.
- e) IIT Dharwad will reject a proposal for award if it determines that the participant recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract in question.

Training and pre-installation checks:

- a) The participant shall also submit training proposal for the operation and maintenance to the personnel of IIT Dharwad on the offered equipment/machinery.
- b) Wherever needed, our technical personnel should be trained by the supplier at the project site free of cost.
- c) The participant shall mention the pre-installation requirements for the equipment, like ambient temperature, humidity, civil work, weather specifications, power specifications, etc. When all items are provided, full performance satisfaction should be demonstrated to IIT Dharwad.

Terms of Payment: (For Indigenous Supplies):

Payment within 30 days from the date of delivery, installation, commissioning, demonstration, training, testing and receipt of Acceptance Certificate of concerned Department/Section/ Materials Management Division, IIT Dharwad. Payment shall be made by electronic fund transfer or such other



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mode offered by the Bank. IIT Dharwad does not pay any advance payment to the party. Any request for Advance payment will be summarily rejected.

Transfer and Subletting:

The seller shall not sublet, transfer, assign, or otherwise part with the acceptance to the contract or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

Delivery terms (only DDP, IIT DHARWAD mode of shipment acceptable):

Items should be delivered to the specified location in the permanent campus of IIT Dharwad, Karnataka, India – 580011, free of cost. The supplier should arrange for the entire process from the origin of equipment to the Stores at IIT Dharwad (including charges for safe packing, Marking & labelling, loading charges, road/air freight, insurance of goods, unloading charges, transport & unloading at buyer destination, installation, commissioning, demonstration and training; within the quoted price).

Freight & Insurance:

No freight and insurance charges will be provided, and the materials are to be delivered at IIT Dharwad Permanent Campus, IIT Dharwad at the cost and risk of the supplier within the quoted price as per the delivery terms mentioned in the above paragraphs.

Warranty Condition:

- The supplier must give a **comprehensive on-site support and maintenance** for a period specified as a part of the specifications in respect of the subject item (mentioned in Section III) from the date of commissioning and acceptance of the items.
- The warranty provided shall be comprehensive, meaning it must include the cost of the spares, materials, manpower, and any other incidental expenses thereto.
- Any deviation in the equipment and the specification from the accepted terms and conditions may lead to rejection and non-acceptance of stores. In such case, the participant/manufacture is required to supply all the items in the specified form to the satisfaction/ specifications mentioned in the order and demonstrate at their own cost. The payments shall be made only after receiving the materials as per the required specification and quality to the satisfaction of the competent authority of IIT Dharwad.

Installation & Demonstration:

- The supplier is required to carry out the supply, installation, commissioning & demonstration of the subject item at the permanent campus of IIT Dharwad installation site within the delivery period; otherwise, the penalty clause will be the same as per the supply of material (refer to the liquidated damages below).
- In case of any mishandling/damage to items and supplies during carriage from the origin of items to the installation site, the supplier has to replace it with new items/supplies immediately at their own risk and cost. The supplier will settle his claim with the insurance company at their convenience. IIT Dharwad will not be liable for any type of losses in any form.
- Supplier shall be responsible for installation/demonstration wherever applicable and for after-sales service during the warranty period and thereafter as mentioned in the contract.
- Installation demonstration to be arranged by the supplier within the quoted price, and the same is to be done within 15 days of the arrival of the equipment at the site or whenever informed by IIT Dharwad.

Liquidated Damages:

The equipment should be delivered/dispatched to destination and ready for use not later than the delivery period specified. If the supplier fails to deliver any or all the stores or perform the service by the specified date, liquidated damages @0.5% per week or part thereof in respect of the value of the delayed stores

will be deducted from the bill, subject to a maximum of 10% value. The same terms are applicable for the installation, training, and demonstration clause mentioned above.

Dispute and Jurisdiction:

Any legal disputes arising out of any breach of contract pertaining to the whole process of this procurement shall be settled in the court of competent jurisdiction in the district of Dharwad, Karnataka.

Cancellation of Notice Inviting Quotation:

- a) Notwithstanding anything specified in this document, the **Purchaser/IIT Dharwad**, at its sole discretion, unconditionally and without assigning any reasons, reserves the rights:
1. To accept or reject the lowest Quotation or any other Quotation or all the Quotations.
 2. To accept any Quotation in full or in part.
 3. To reject any Quotation or offer not confirming to the terms mentioned in this document.
 4. To cancel the Notice Inviting Quotation at any stage during the evaluation and before the award of work.
- b) Offers which deviate from the **vital conditions** (as illustrated below) of the Quotation shall be rejected:
1. Non-submission of complete offers as mentioned in this document.
 2. Receipt of offers after the due date and time and/or by email/fax (unless specified otherwise).
 3. Receipt of offers in open condition.
 4. Conditional Quotations and unsigned Quotations will also be rejected. The Supplier shall not be liable for imposition of liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of

Force Majeure.

- a) For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- b) If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Supervision of Commissioning:

The supplier shall depute concerned specialists for the supervision of the commissioning of the machine to be carried out. The Supplier shall make necessary arrangement at their own expenses for stay, transport and other expenses of their specialist during their stay in Dharwad which also includes imparting free of cost training to IIT Dharwad personnel.

The Institute Reserves the Right to:

- a) Increase or decrease the quantity of the item(s) as per requirement.
- b) Reject the QUOTATION in absence of not furnishing the documentary evidence in respect of GST and Income Tax clearance certificates together with the performance of supplies in various branches/institutions.
- c) Reject the QUOTATION in the event of non-furnishing the authentic documentary evidence in respect of Testing reports / Performance report of the concerned Govt. Organization / Institutions about the

- products being manufactured and marketed. The performance test of the product can be conducted at Institute level also for which charge will have to be borne by the suppliers.
- d) Reject the supplies already made, if not found up to the mark. Thorough checking may be adopted to test the correctness of the supply. In such an event further, action may call to conform or discard the supply.

Performance Guarantee (as per GFR 2017 Rule 171):

- a) Suppliers shall furnish 5% of the contract value as a performance security for a period of 02 months beyond the expiry of all warranty and maintenance contract related obligations within 15 days of acceptance of the Purchase Order.
- b) Performance Security may be furnished in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial bank, Bank Guarantee from a Commercial bank or online payment in an acceptable form, safeguarding the purchaser's interest in all respects as per GFR 2017, Rule 171, and as amended from time to time

LOSS OR DAMAGE:

If goods supplied are found defective either in material or workmanship or do not conform to the specifications or unsuitable for the purpose for which they are meant for, the seller has to replace the required goods at free of cost. However, IIT Dharwad reserves right to reject the goods and repudiate.

Table-1

Sl. No.	Terms and Conditions	IIT Dharwad Procurement requirements	Response by vender M/s _____
1.	Unconditional acceptance to all the Terms and conditions set out herein	Declaration to be provided	
2.	Price QUOTATION Format	As per Annexure-III	
3.	Price QUOTATION Currency	INR	
4.	Delivery terms	Ref Delivery terms Section II of page no.4	
5.	GST Rate (If Local supply in India)	@ Applicable rates	
6.	Warranty	Submit a declaration in this regard (as per Annexure-I)	
7.	Blacklisting status	Submit a declaration in this regard (as per Annexure-II)	

Section – III Complete Schedule of Requirements and Compliance

This section has following compliance requirements:	
i	Compliance for technical specifications of the equipment to be supplied

Table of compliance for technical specifications of the equipment to be supplied (to be filled by participant)

Annexure

Technical Specifications of ultra-high vacuum (UHV) chamber and the mounting stand and flanges (RIMS Facility)		Specifications of the quoted product
1. UHV Chamber Specifications		
Material	- SS316L (for both the main chamber body and flanges).	
Chamber Length	- 700 mm	
Main Chamber Diameter	- Compatible with CF300 flanges.	
Chamber Type	- Cylindrical with multiple CF ports.	
Flange Standard	- ASTM E2734M, 30 holes (for CF300).	
Port Configuration (Subject to Final Design Confirmation)	- End Ports: 2 × CF300 (one at each end) - Other Ports: 1 × CF200 2 × CF160 3 × CF100 6 × CF63 5 × CF35 - Some flanges shall be rotatable, and all port positions must follow specified angular relations.	
Port Layout Details	- At 300 mm from Side-A (Reference End): All ports lie in a single plane: 2 × CF100 (opposite, collinear). 2 × CF63 (opposite, collinear; 1 rotatable). 2 × CF63 (opposite; 1 rotatable). 1 × CF160 opposite to 1 × CF100. CF63 ports should be 90° apart. - At 150 mm from Side-A: All ports in a single plane: 1 × CF200 opposite to 1 × CF63. 2 × CF35 (opposite; 1 rotatable). - At 500 mm from Side-A: All ports in a single plane: 3 × CF35 (1 rotatable) and 1 × CF63 (rotatable)	

Adaptors and Viewports	<ul style="list-style-type: none"> - Adaptors to be Provided: 2 × CF63–CF35 (Zero length). 1 × CF160–CF200 (Zero length). 1 × CF35–KF16. - Viewports: 2 × CF100 fused silica (quartz) metal-sealed viewports Material: Corning HPFS 7980 Fused Silica 	
Construction and Finishing	<ul style="list-style-type: none"> - All welding to be done by TIG welding (without filler rod) from vacuum side. - Vacuum side surface finish: Electro-polished - External surface finish: Glass bead blasted - All fixed flanges: Bolt holes straddled on vertical - Angular Tolerance 0.5°, Linear Tolerance as per ISO norms. - Welded Tags: 8 tags for vertical mounting (stand attachment) - Chamber should be thoroughly cleaned as per UHV standards and be ready-to-use. - Helium Leak Rate: $< 2 \times 10^{-10}$ std. cc/sec (at welds and sealing surfaces) - All sealing surfaces must be free from scratches, dents, or irregularities. 	
Accessories to be Supplied	<ul style="list-style-type: none"> - One set of SS316L blank flanges with two sets of OFHC copper gaskets and required nuts and bolts to be provided for each port of the chamber including both CF300 end ports. - Faraday Cup: Made of OFHC copper - UHV compliant gas needle injection system, compatible with the chamber - Lifting provision for mounting 	
Vacuum Requirement	<ul style="list-style-type: none"> - The chamber must be capable of reaching 5×10^{-9} mbar using turbo molecular pumping system (to be demonstrated during evaluation or post-supply testing). 	
2. Mounting Stand Specifications		
Material	<ul style="list-style-type: none"> - Aluminium profile (high strength, modular type) 	
Mounting Configuration	<ul style="list-style-type: none"> - Support for vertical mounting of the UHV chamber with compatibility for welded mounting tags. 	
Dimension	<ul style="list-style-type: none"> -The stand should be big enough to accommodate the UHV chamber and pumps. 	
Mobility	<ul style="list-style-type: none"> - Equipped with castor wheels for easy relocation - Stands/leveling feet to lock the chamber in place 	

Height Adjustment	- Stand must allow for height adjustability	
Vibration Isolation	- Must include vibration damping mechanism to minimize vibrations to the chamber	
Compatibility	- The stand's size and load capacity must be compatible with the chamber's weight and dimensions.	
Warranty	- A minimum 3-year warranty should be provided for all components.	
Vendor Responsibilities	- The design and fabrication of the Ultra-High Vacuum (UHV) chamber and mounting stand must be executed by the same vendor. - The vendor must provide 3D design files (in standard CAD formats such as STEP/IGES/SolidWorks) of all components along with the offer. - Items must be fabricated strictly as per the finalized and approved 3D design. - The vendor should be open to modifications during the design finalization stage. - All drawings and files must be supplied to the purchaser before production.	
Vendor Qualifications	- The vendor should have an in-house manufacturing facility and helium leak testing capabilities. A list of in-house machinery and capabilities must be provided. - Must have ISO 9000 certification (valid certificate to be submitted). - Proven experience in designing and fabricating UHV chambers for academic and research institutions such as IITs, IISc, IISERs, NISER, Central Universities, and national R&D labs. - Vendor should submit: Copies of recent purchase orders (POs) for similar systems. Contact details of previous users (for reference check). Documented proof of compliance with all specifications. - A demonstration may be requested for: Similar-sized UHV chambers achieving a vacuum level of 5×10^{-9} mbar. Accessories supplied under this requirement.	



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In addition to above specification the vendor has to provide catalogue/ brochure/ manuals and necessary technical documents in respect to the line item.

I/We M/s_____ hereby declare and certify that we comply with all the above specifications.

Authorized Signatory with Seal

Annexure I

DECLARATION OF COMPREHENSIVE WARRANTY AND MAINTENANCE VISITS

I/We M/s _____ hereby declare that items to be supplied against this participant shall be covered as comprehensive warranty as given in the specifications document with scheduled maintenance visit on call basis/regular basis/quarterly basis. This warranty shall cover defects in materials, workmanship, and performance for a period of _____ (as mentioned in specification Section III) from the date of acceptance/installation.

Date:

(Authorised signature & seal of the participant)

Annexure-II

UNDERTAKING REGARDING BLACKLISTING / NON-DEBARMENT

We hereby confirm and declare that we, M/s -----, is/are not under any active debarment from Ministry of Finance and/or Ministry of Education as on the date of QUOTATION submission.

Any change in the above status during the evaluation of the present quote shall be intimated to IIT Dharwad immediately.

Date:

(Authorised signature & seal of the participant)



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(Annexure-III)

Price QUOTATION

Sl. No	Description of Item & Specification	Qty	HSN Code / SAC Code	Total QUOTATION
1.	Supply and Installation of Ultra-high vacuum (UHV) chamber and the mounting stand and flanges (RIMS Facility)	01 Nos.		
2.	Discount offered (if any), on base price quoted			
3.	Sub-Total			
4.	IGST / CGST / SGST@ applicable Rates			
5.	GRAND TOTAL QUOTATION PRICE			

Authorised Signatory and seal