

Department of Chemistry,
University of Mumbai,

No. :

Date:

To,

Separate sealed Tenders for purchase of following item is invited, for and on behalf of University of Mumbai by the Head, Department of Chemistry, University of Mumbai, so as to reach him in his office latest by 4.00 p.m. on **Friday, 16th October, 2015**.

1. Chemical Vapour Deposition (CVD) reactor with horizontal quartz tube (Complete setup) - 01 No.

Blank forms containing terms and conditions of supply and technical specifications are available at the office of the Head, Department of Chemistry, University of Mumbai, on all working days between 11.00 a.m. to 4.00 p.m. from **Thursday, 1st October, 2015 to Thursday, 15th October, 2015**, except 2nd and 4th Saturday, Sunday & public holidays on payment of ₹ 500.00 (₹ Five hundred only) in cash OR the same can be downloaded from our website <http://mu.ac.in/tenders.html> and submitted along with a DD of ₹ 500.00 (₹ Five hundred only) in favour of 'Finance and Accounts Officer, University of Mumbai'. The tenders duly complete in all respects, along with the necessary documents should be submitted to the Head, Department of Chemistry, University of Mumbai, latest by 4.00 p.m. on **Friday, 16th October, 2015**.

The tenders so received, shall be opened on **Monday, 19th October, 2015** in the office of the Head, Department of Chemistry, University of Mumbai, Lokmanya Tilak Bhavan, Vidyanagari, Santacruz (E), Mumbai, 400 098, in presence of representatives of the suppliers. Right to reject any or all tenders, without assigning any reason thereof, is reserved by the University of Mumbai.

Sd/-
(Dr.A.V.Karnik)
Prof. & Head,
Department of Chemistry,
University of Mumbai.

Department of Chemistry
University of Mumbai
Lokmanya Tilak Bhavan, Vidyanagari
Santacruz (E), Mumbai - 400 098
Phone: 26543353/26543354
Fax: 26528547

Tender Document
Date: 1st October, 2015
Part A - Terms and conditions
Part B - Specifications
Price Rs. 500.00 (non refundable)

Important Dates

Sale of Tender forms	:	Thursday 1 st October, 2015 to Thursday 15 th October, 2015 (All working days from 11.00 a.m. to 4.00 p.m.)
Last Date for receiving sealed tenders	:	Friday, 16 th October, 2015 up to 4:00 p.m.
Date of Opening of tenders	:	Monday, 19 th October, 2015 at 11.30 a.m.

Head, Department of Chemistry
(Seal & sign)

Department of Chemistry
University of Mumbai
Lokmanya Tilak Bhavan, Vidyanagari
Santacruz (E), Mumbai - 400 098
Phone: 26543353/26543354
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Tender Document
Date: 1st October, 2015

Part A -Terms and Conditions of Supply

Chemical Vapour Deposition (CVD)
reactor with horizontal quartz
tube (Complete setup) - 01 No.

Part A -Terms and Conditions

1. The last date and time for the acceptance of the Tender is **Friday, 16th October, 2015 up to 4:00 p.m.**
2. The tenderers shall submit the following documents along with their tenders.
 - a. Income tax clearance certificate, from the Income Tax officer concerned, certifying that the tenderer has cleared all the Income Tax dues.
 - b. Suppliers should state whether they are a Propriety Firm, Partnership Firm or a Private / Public Limited Company and furnish a profile of the firm / company. They should also clearly mention whether they are manufacturers, authorized dealers or retail suppliers.
 - c. The names of the organizations and the offices to which similar supplies have been made.
 - d. Earnest Money Deposit in the form of Demand Draft in favour of Finance and Accounts Officer, University of Mumbai, on any Scheduled / Nationalized Bank payable at Mumbai.
 - e. Sales Tax Registration No. / VAT Registration No.
 - f. Technical specifications offered by the Supplier, Proprietary Certificate (if any).
 - g. Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document part B.
3. The rates should be mentioned in the Schedule attached with the tender paper. Each page of the tender shall be signed in full and stamped with the seal by supplier. The supplier must clearly state in what capacity he or she is signing the tender.
4. The tenderers shall submit the tender in two envelopes. The first envelope (Technical Bid) shall contain all the documents referred to in Para 2 above and shall be sealed. The second envelope (Commercial Bid) shall contain the **Schedule**, in which the supplier shall register the rates of supply. The second envelope shall also, likewise, be sealed. Both the envelopes then should be put together and shall be sealed in an envelope, and shall be submitted to the University by the prescribed time and date. The Technical Bid shall be opened first to ensure that the tenderers have submitted all the requisite documents. If the Technical Bids are not in order or are deficient in some respect, the Commercial Bids in respect of such tenders shall not be opened.
5. **The amount of Earnest Money Deposit shall be 5% of the cost of supply subject to a maximum of Rs. 25,000.00 (Rs. Twenty five thousand only).** The Earnest Money Deposit should be in the form of Bank Draft drawn on a nationalized / scheduled bank (payable at Mumbai) in favour of the '**Finance and Accounts Officer, University of Mumbai**', and must be enclosed with the Technical Bid.
6. Tenders not accompanied by the requisite amount of Earnest Money Deposit shall be rejected.
7. The amount of Security Deposit / Performance Guarantee shall be 5% of the cost. In case of successful tenderers the amount of Earnest Money Deposit shall be converted into Security Deposit / Performance Guarantee and shall be refunded after the warranty period is over.
8. Supplier should read carefully all the instructions and terms and conditions, etc., before registering rates in prescribed schedule of the tender. Taxes and duties etc. should be shown separately.

9. The offers made by the suppliers shall be open for acceptance for 120 days after the last date of submission of tender.
10. The tenders shall be opened by the Head, Department of Chemistry in his office **Monday, 19th October, 2015**. The tenderers or their authorized representatives shall be allowed to be present at the time of opening of the tenders.
11. In case of imported items / equipments the rates should be quoted in the light of exemptions enjoyed by educational institutions. The University is exempted from payment of Customs/Excise duty, Octroi; and the necessary certificates / forms can be issued by the University.
12. Technical specifications of the instrument / equipment are given in the Annexure of these papers (Part B).
13. The delivery time of instrument / equipment should be clearly mentioned in the tender. No extension shall be granted to the contractors / suppliers for the period of delivery mentioned in the tender, under any circumstances.
14. If the supplier fails to deliver the article as per the delivery schedule, the University of Mumbai shall be free to procure the balance / undelivered supply, at the risk and cost of such supplier.
15. The goods, article, material supplied by the contractor shall be accepted after inspection by an officer authorized by the competent authority. No article / material which do not conform to the specifications laid down in the terms and conditions or damaged in transit or otherwise, shall be accepted.
16. The bills of the suppliers shall be paid by the University after all the article/ material/ instrument / equipment have been received, inspected as above.
17. The warranty period shall be at least for one year from the date of installation.
18. Supplier should give free service at least for three years after the warranty is over.
19. Service Support should be from Factory trained Engineers; specifying the no. of Engineers with their names, mobile numbers, base location, Response time, etc.
20. A list of spares/consumables required for hassle free functioning of the instrument for at least two years should be quoted additionally.
21. Undertaking from the manufacturer that parts will be made available at least for next ten years even after discontinuation of the supplied model is necessary.
22. Supplier should have at least five orders from Institutions / Laboratories in the past three years (copies of the PO to be attached).
23. The detailed operational training should be provided by the competent Engineers during the time of installation.

24. As the supplier shall be responsible for the supply and installation of the material at the Department of Chemistry, University of Mumbai; the cost towards loading/unloading, insurance, etc. shall be borne by the suppliers.
25. Without any purchase commitment, inspection/demonstration should be arranged at the cost of the supplier for the quoted material at two places in Mumbai.
26. In the event of any breach of the terms and conditions of the supply, the University of Mumbai may terminate the contract placed with the supplier and forfeit the EMD/Security Deposit of the supplier.

SCHEDULE TO TENDER

Note:

1. Tenderers are advised to read carefully the Terms and Conditions of supply and "the Instructions to the tenderers" before recording the rates in this schedule.
2. No erasures or overwriting shall be allowed, unless they are authenticated under the full signature and seal of the tenderers.
3. The Rates shall be FOR, at destinations / godowns/ places indicated in the delivery.

Item No.	Description of goods with details of specifications	Number/Quantity	Price / Rate per Unit	Taxes, Duties etc.

Full Signature of Tenderer

(Seal of the Firm/Company)

Department of Chemistry
University of Mumbai
Lokmanya Tilak Bhavan, Vidyanagari
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Tender Document
Date: 1st October, 2015

Part B -Technical Specifications

Chemical Vapour Deposition (CVD)
reactor with horizontal quartz tube
(Complete setup) - 01 No.

**SPECIFICATIONS FOR CHEMICAL VAPOUR DEPOSITION (CVD)
REACTOR WITH HORIZONTAL QUARTZ TUBE (COMPLETE SETUP)**

1	<p><i>HORIZONTAL REACTOR TUBE:</i></p> <p>1. Tube Material: Quartz,</p> <p>2. Length : 1200 mm, ID = ± 48 mm, OD = ± 52 mm,</p> <p>3. Operating Temperature : 900-1100 °C (Maximum 1200 °C),</p> <p>4. Sample boats of Ceramic/Alumina with rounded bottom: 30 mm \times 30 mm</p>
2	<p>FURNACE STRUCTURE:</p> <p>1. Furnace Tubular size: Length 1000 mm, ID = 50 mm,</p> <p>2. Design : Table Top,</p> <p>3. Furnace hot zone volume: 350 mm height 3 Zones length,</p> <p>4. Numbers of Hot Zones: Three hot zones of 350 mm length,</p> <p>5. Furnace Control: Furnace is top and panel is bottom,</p> <p>6. Shell Construction: Double Wall good quality fabrication of M.S. Body Angle frame and M.S. sheet structure with Proper stiffeners and with neat powder coat painting,</p> <p>7. Furnace stands & panel box: Control panel box with a door coupled with furnace stand to a height of ~700mm,</p> <p>8. Gas Purging: Ends of the tube have Glass couplers with cooling attachment for purging of gases,</p> <p>9. Insulation: Ceramic wool Blankets</p>