

	<p style="text-align: center;">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</p> <p>Telephone : [044] 2257 4228 FAX : [044] 2257 4202 E-mail: csdkartik@iitm.ac.in</p>	
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Dr. Kartik Chandra Mondal
Project Coordinator

Ref: CHY/KARB/024/2016
Dated: 19.07.2016

Limited Tender No: CHY/KARB/024/2016

Technical Bid opening meeting on 01.08.2016 at 4.00 p.m.
Due Date: 29.07.2016, 5:00 pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of

GLOVE BOX WORK STATION conforming to the specifications given in (Annexure-I):

Instructions to the Bidder

- (i) **Preparation of Bids:** - The Limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- (ii) **Delivery of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier so as to reach the following address before the due date and time specified in our Schedule:

Dr. Kartik Chandra Mondal, Dept. of Chemistry, IIT Madras-600 036.
- (iii) **Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. The bidders if interested may participate on the above mentioned tender opening date and time. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- (iv) **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to various Departments/Centres/Institutions. The offer/bid

should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated.

The price should be quoted without custom duty and excise duty, since I.I.T. Madras is exempt from payment of excise duty, and the custom duty will be paid at concessional rate against duty exemption certificate.

In case of import supply, the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

- (v) **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- (vi) **Terms of Delivery:** - The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- (vii) **Technical Bid Opening:** The technical bid will be opened on 1st August 2016 at 4.00 p.m. at the Conference room, Department of Chemistry, IIT Madras and the financial bids of those tenders who are technically qualified will be opened at a later date under intimation to them.
- (viii) IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Yours sincerely,

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **29.07.2016, 5:00 p.m.**
2. The offers / bids should be submitted in two bids systems (i.e.) Technical bid and Financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and Financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Limited Tender for supply of "**Glove Box Work Station**" should be written on the left side of the Outer bigger cover and sealed.
3. **EMD:** - EMD should be at 2% (two percent) of the tender value quoted by the bidder. The EMD should be included in the Financial bid which will not be opened for Technical evaluation. Enclosing the EMD in the Technical bid will automatically disqualify the tenderer. EMD should be in the form of DD in favour of "The Registrar, Indian Institute of Technology Madras" and payable at Chennai. The tender without EMD would be considered as UNRESPONSIVE and REJECTED. Photo/FAX copies of the Demand Draft/Banker's pay orders will not be accepted. No interest will be paid for the EMD and the EMD (Bid Security) will be refunded to the successful bidder on receipt of Performance Security.
4. **Performance Security:-** The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt from the commercial bank, Bank Guarantee from any nationalized bank of India will be an acceptable.

Only after submission of Performance Security, Purchase Order/Work Order will be released / L.C will be opened.

Performance Security in the form of Bank Guarantee:- In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee from a Nationalized Bank of India.

The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.

5. If an Indian agent is involved, the following documents must be enclosed:
Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
 - ✓ The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.
6. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers (renowned research/academic institutes in India and abroad). A list of customers in India and abroad with details must accompany the quotations. The bidder should have supplied at least one renowned research/academic institute in India. Quotations for a prototype machine will not be accepted.
7. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid. No prices should ever be included in the Technical bid.
8. Documentary proof for the claimed position and repetition accuracies must be obtained from the principals and submitted along with the relevant pages of the standards.
9. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
10. **Validity:** Validity of Quotation not less than 90 days from the due date of tender.
11. **Delivery Schedule:-** The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
12. **Risk Purchase Clause:-** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
13. **Payment:-** No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
14. **Advance Payment:-** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank

Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.

15. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within 15 to 20 days from the date of receipt of the item at site of IIT Madras. Installation should be done by the successful bidder in free of cost.
16. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately. (for more details please refer our Technical Specifications). At least one year warranty from the date of installation.
17. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
18. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
19. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
20. **Disputes and Jurisdiction:** - Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
21. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement:- It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

**SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE
COMPANY WITH DATE**

Technical Bid opening meeting on 01.08.2016 at 4.00 p.m. (please refer point No. vii)

DEPARTMENT OF CHEMISTRY

Indian Institute of Technology Madras, Chennai – 600036.

Telephone No. 2257-4228, Fax No. 22574202.

SPECIFICATIONS FOR GLOVE BOX WORK STATION

INSTRUMENT SPECIFICATIONS:

Material should be Stainless steel, US304
Bolted side panels for expansion.
Inside surface should be brushed finished,
Internal Dimensions 900-950 mm x 1200-1250 mm x 775-800 mm [H x L x D]
2 Nos. of Glove ports, 220 mm dia, should be polymeric type
Glove ports should be O ring sealed,
One pair of gloves, Butyl type, should be supplied
Glove box front should be Polycarbonate window
Additional coating for chemical and scratch resistance is needed.
One Dust filter 0.3 micron, class H13 should be supplied
Three Height adjustable, Stainless Steel shelves should come with system
Automatic Box pressure range should be from -15 mbar to +15 mbar
Possibility of Positive Pressure regulation without vacuum pump
Box be fitted with Water proof Foot pedal
Box should be fitted with 2 DN 40 feed through, one should be electrical.
Fluorescent lamp should be front mounted. Automatic switch off.
Stand, height 1000 mm, with castors and machine feet (height adjustable)
Glove Box should be integrated with heat exchanger
Cylindrical Antechamber, 390 mm diameter, Length 600 mm
Thickness 2.5 mm,
Material should be stainless steel, US 304, should be Brushed finish inside
Antechamber should come with one stainless steel Sliding tray
Should come with Spindle lock Type door
Purifier must be a Single filter and Re-generable
Attainable purity should be less than 1 ppm H₂O and O₂ (at complete pressure range)
Removable capacity, oxygen minimum 35 L and moisture minimum 1300 g
Integrated circulation lower, Flow rate must be more than 85 m³/hour,
Blower should automatically reduce speed if oxygen and moisture are within set values and should automatically increase back to 100%, if O₂ and H₂O levels are increased above the set limits.
Glove box should come with Rotary vane pump, dual stage type

Vacuum pump should include Oil mist filter and Oil re-circulation and Automatic gas ballast control,
Vacuum pumps speed should be 17 m³/h,
Automated Switch off of Vacuum pump
Activation at a user Set Time
Purifier should have an automatic PLC controlled regeneration program
Smaller- Antechamber -150 (D) x 400 (L) mm, Hinged doors, with sliding tray
Position Should be 1/3rd inside and 2/3rd outside.
Solid state oxygen sensor, 0- 500 ppm range
Solid state moisture sensor, 0-500 ppm range

Glove box should be fitted with Solvent adsorption chamber,
It should contain at least 5 kg activated carbon,
Adsorption chamber should be fitted with inline and bypass modes
Refrigerator -35 °C with 3 stainless steel shelves should be fitted on left side.
Re circulation chiller, Temperature range +5 to +30 °C
Cooling capacity: 1000 W @ 30 °C
Flow rate (cooling fluid) up to 12 l/min
PLC Controller with Color Touch panel for operation of all Glove box functions
Spare one pair gloves with O rings

System should be expandable

Remote monitoring of glove box parameters and alerts when values exceed set limits
Re-generable solvent adsorption Unit, Automatic and PLC controlled
Solvent sensor to monitor contamination

Local service is mandatory.