INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036



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Dr. Rajakumar, B Project Coordinator Ref: CHY/BRAJ/2019/008 Dated: 26.09.2019

Limited Tender No: CHY/BRAJ/2019/008

Due Date: 10.10.2019, 4:00 PM

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 10.10.2019, 4:30 PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of **"The Mass flow controllers**" 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. Rajakumar, B Department of Chemistry, IIT Madras Chennai - 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 will be invited for opening of Technical bids. 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 **Department of Chemistry**.

The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on 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 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. <u>**Technical Bid Opening:**</u> The technical bid will be opened on **10.10.2019**, **4:30 PM** at the 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,

Dr. Rajakumar, B Department of Chemistry, IIT Madras Chennai - 600 036

SCHEDULE

Important Conditions of the tender

- 1. The due date for the submission of the tender is **10.10.2019**, **4:00** PM.
 - 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 "**The Mass flow controllers**" should be written on the left side of the Outer bigger cover and sealed.
- 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.
- 3. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical-cum-financial bid.
- 4. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
- 5. **Validity:** Validity of Quotation not less than 60 days from the due date of tender.
- 6. **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.
- 7. **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.

8. 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).
- ii. **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.

- 9. **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).
- 10. **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.
- 11. 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.
- 12. Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.

13. Disputes and Jurisdiction: -

- a. **Settlement of Disputes:** Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate one arbitration proceedings shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.
- b. **The Applicable Law:** This Purchase Order shall be construed, interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- c. 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.
- 14. 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 specifications for the mass flow controllers

Quotations are invited in a two bid system for the purchase of mass flow controllers with the following technical specifications.

- Mass flow controllers should be able to be used to measure and control the gas flows for He, Ne, Ar, H₂, N₂, O₂ and air.
- Flow controllers to measure the flow rates of 0-100 SCCM and 0-1000 SCCM should be quoted. A minimum of three and a maximum of five flow meters will be purchased, depending on the price and available budget. Therefore, the shipping cost should be given for three as well as for five numbers.
- 3. The corresponding power supply units/modules/adapters should be provided.
- 4. The body of the flow controllers should be made of 316L stainless steel/Aluminium to accommodate most corrosive and toxic gas applications. If the prices are different for SS and Aluminium, prices should be given accordingly.
- 5. Accuracy of $\pm 1.5\%$ of full-scale standard (especially with lower flow rates) is essential.
- 6. They should be suitable to accommodate the pressures up to 500 psig (~35 barg).
- 7. Flow display should be an integral part of the flow controller.
- 8. The unit should have large sensor tube to reduce pressure drop and permit cleaning.
- 9. The sensor should be made of platinum to minimize the zero drift and to ensure long term repeatability. Very low pressure drop across the sensor should be assured. The sensor cleaning option with cleaning kit should be provided.
- 10. The flow controllers should have 1/4" Swagelok end I/O connections/VCO connections.
- 11. NIST traceable certification is essential.
- 12. High linearity and repeatability up to a maximum of 0.5% of error is preferred.
- 13. The flow controllers should have the option of pin connector as well as power jack for the power input.
- 14. Software, if any should be supplied to integrate with the computers.

Please specify the following in the terms and conditions of your quotation:

- Warranty, payment terms, Taxes, delivery time/charges, if any.
 Prices should be quoted in the foreign currency, if the flow meters are to be imported.
 If the prices quoted are in foreign currency, CIP Chennai prices should be given
- 2. Reference list should be provided