

	INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 Telephone: (044) 2257 4218 E-mail: sbhaskar@iitm.ac.in	
---	---	---

Dr. S. Baskaran
Project Coordinator

Ref: CHY/1617/361/DSTX/SBAS
Dated: 17.06.2019

Limited Tender No: CHY/1617/361/DSTX/SBAS

Due Date: 25.06.2019, 4:00pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 25.06.2019, 4:30pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “**Semi-preparative cum analytical HPLC system with Binary Pump and Accessories**” 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. S. Baskaran
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. **Price:** - 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 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 **25.06.2019, 4:30pm** 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. S. Baskaran,
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 **25.06.2019, 4:00pm.**
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 "**Semi-preparative cum analytical HPLC system with Binary Pump and Accessories**" should be written on the left side of the Outer bigger cover and sealed.
2. 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. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
4. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid
5. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
6. **Validity:** Validity of Quotation not less than 60 days from the due date of tender.
7. **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.
8. **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.
9. **Payment:** -
 - i. 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.

10. **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).
11. **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.
12. **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.
13. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
14. **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 arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The 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.
15. 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**

Semi-preparative cum analytical HPLC system with Binary Pump and Accessories:

- An analytical cum semipreparative HPLC system capable of separating complex samples in milligrams scale.
- System: Fully PC controlled analytical cum semi-preparative LC system with following technical and Performance specification.
 1. Solvent delivery system for semi-preparative and analytical flow rates
 2. Photo Diode Array Detector
 3. Injector
 4. Fraction collector
 5. Chromatography data station
 6. Columns
 7. Installation kit

Binary Solvent delivery system:

- Binary pump capable of handling semi-preparative and analytical flow rates
- High-pressure binary pump with Degasser.
- Mode of operation: gradient.
- Settable solvent composition: 0-100% within 0.1% increments
- Flow rate range 0.01 – 20 ml/min, in 0.01 ml/min increments
- Flow precision should be \leq 0.07 % RSD.
- Pressure operating range up to 400 bar (upto 5 ml/min), 200 bar (upto 10 ml/min) or better
- Flow precision <0.1% RSD, or <0.02 min SD whatever is greater, based on retention time at constant room temperature
- Flow rate accuracy \pm 1% or 10 μ l/min whatever is greater
- System should be fitted with leak detector for safe leak handling, leak output signal for shutdown of pumping system.
- The necessary suction/line filters and solvent cabinet
- Degasser unit

Photo diode array detector suitable for working in both analytical and preparative modes

- Standard flow cells for preparative and analytical operations
- Light source: Deuterium and Tungsten lamps
- More than 512 elements photodiode array device
- Wavelength Range: 190 – 800 nm, settable in 1 nm increments
- Wavelength accuracy \pm 1 nm self-calibration with deuterium lines
- Noise specification: $<\pm$ 0.7 x 10⁻⁵ AU, at 254 and 750 nm

- Signal drift specification: $<0.9 \times 10^{-3}$ AU/hour at 254
- Linear absorbance range > 2 AU (upper limit)
- Detector linearity: 5% at 2 AU Propyl Paraben, 257 nm
- Programmable slit width should be there with 1, 2, 4, 8 nm options for optimizing noise and spectral resolution.
- Flow cells for both analytical and semi-prep experiments should be provided.

Injector:

- Manual Injector for preparative and analytical applications with 20 μ L, 100 μ L, 500 μ L and 1 mL liter loop.
- Higher injection precision preferable.

Chromatography data station

- Software to control, acquire and process the data with interactive control and display of solvent delivery via controlled network
- All functions and features accessible from a single window
- Wizards to simplify and automate common system functions
- Seamless integration of all the modules should be available
- 3D spectral module should be provided for the diode array detector
- Methods – instrument, processing and reporting parameters in one place
- Diagnostics functions, configuration wizards and Extensive user help

Fraction Collector

- Automatic fraction collector
- 36 or more collection of fraction should be possible
- Automated delay calibration must be there.
- Leak sensor should be available.
- Test tube racks and 300 pcs of 15 mL test tubes

Columns

- C-18 Columns – Analytical - 1 no.
- C-18 Columns – Preparative - 1 no.
- Daicel CHIRALPAK IA (250 X 4.6mm, 5 μ) - 1 no.
- Daicel CHIRALPAK IB (250 X 4.6mm, 5 μ) - 1 no.

Installation Kit:

- Bottles
- Tubings
- Solvent filtration kit and etc.

General Terms and Conditions:

- 1) Minimum 3 years of warranty
- 2) System should be installed by company professional & thorough technical training to be provided in analyzing and troubleshooting
- 3) The vendor should provide the proof for installation of quoted HPLC system in IITs, IISER and IISc with contact details.
- 4) The vendor should have installed at least 25 HPLC systems in reputed institutions like IITs, IISER and IISc.