



INDIAN INSTITUTE OF TECHNOLOGY MADRAS

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V. Sathyanarayanan
Senior Manager (Project Purchase)

Ref: CIE/LIGY/001/2019

Date: 21.01.2019

Open Tender No: CIE/LIGY/001/2019

Due Date: 11th February 2019, 3pm

Pre-Bid meeting on 1st February 2019, 4 PM at Department of Civil Engineering, IIT Madras

Technical Bid opening meeting on 11th February 2019, 4:00 PM at Department of Civil Engineering, IIT-Madras.

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "**High Performance Liquid Chromatography (HPLC)**" conforming to the specifications given in Annexure I.

Vendor who can supply and integrate the above equipment alone need to respond to the tender please.

Instructions to the Bidder

- I. Preparation of Bids:** - The 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 addresses mentioned below, either by post or by courier so as to reach our office before the due date and time specified in our schedule. The offer/bid can also be dropped in the tender box on or before the due date and time specified in the schedule.
The tender box is kept in the office of the:


**Senior Manager,
Project Purchase,
IC & SR Building 2nd floor,
I.I.T. 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 will be examined by a technical committee which will decide the suitability of the bids as per our specifications and requirements. All bidders will be invited for opening of the technical bids. With respect to opening the financial bid, only technically qualified bidders will be called.
- IV. Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to the **Department of Civil Engineering**. The offer/bid should be exclusive of taxes

and duties. The percentage of tax & duties should be clearly indicated separately. Kindly note that 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 after receipt of the equipment and its satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in the tender document 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 the percentage of payment and it should be included in the basic price quoted originally (if any)..
- VI. Terms of Delivery:** - The item should be supplied to the **Department of Civil Engineering, IIT Madras** as per the 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 on 11th February 2019, 4:00 PM at the **Department of Civil Engineering, IIT-Madras**. 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 any stage without assigning any reason.

Yours sincerely,


V. Sathyanarayanan
Senior Manager (Project Purchase)
IC&SR Building, I.I.T. Madras,
Chennai - 600 036.

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **11.02.2018, 3 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 Open Tender for supply of "**High Performance Liquid Chromatography (HPLC)**" should be written on the left side of the Outer bigger cover and sealed.

2. **EMD: - The EMD in the form of account payee DD for 2% value of the item in favor of Registrar IIT Madras should be enclosed in the cover containing financial bid.** Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.

The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD. EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME).

When no local agent, the foreign vendor can submit demand draft equal to 2% or wire transfer the amount to our account as detailed in the attachment (Annexure II) and enclose the proof with the financial bid.

3. **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 in India. **The performance security should be furnished within 21 days from the delivery of the purchase order.**

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.

4. **Indian agent:** 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.
5. 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.
6. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.

7. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.

8. **Delivery Schedule:** - The tenderer should indicate clearly the time required for delivery of the item (subjected to the executive committee-IITMadras approval). 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.

If there is delay, the penalty will be @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IITM, the PO would be cancelled and liquidated damages will be enforced.

9. **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.

10. **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.

11. **Warranty/Guarantee:** - Please refer our Technical Specifications.

12. **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.

13. **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.

14. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**

15. **Disputes and Jurisdiction:**

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 on arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding 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.

a. **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.

- b. 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.

20. 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**

Specification for High Performance Liquid Chromatography (HPLC)

System should be designed and manufactured under ISO-9001 and should comply with most of international regulatory, safety and electromagnetic compatibility requirement. The chromatography data system should be based on Microsoft Windows operating system for instrument control, data acquisition and data analysis.

General Features of HPLC

HPLC system consisting of quaternary gradient pump, manual injector, online degasser, column oven, UV-Vis detector, optional auto sampler and optional diode array detector, with software and Accessories.

Pump:

- Quaternary gradient pump with serial pistons and able to work as Isocratic, binary, ternary and quaternary mode.
- Flow rate setting range: ≥ 0.01 to 10 mL/min in 0.01 mL/min increments or better.
- Proportionating Precision: $\pm 0.15\%$ or better
- Proportionating: 5 to 95% or better
- Proportionating Accuracy: $\pm 0.5\%$ or better
- Operating pressure range should have a maximum value of 8000 PSI or better.
- Flow Precision and accuracy: 1% RSD or better and $\pm 1\%$ or better
- System should have automatic rinsing of plunger and Leak sensor.
- System should have inbuilt on line degasser with 4 channels for solvent degassing

UV-Vis. Detector:

- Wavelength Range: 190-800 nm or better.
- Light source should be deuterium Lamp with the lamp life of >2000 hrs or suitable source with better lamp life.
- Wavelength accuracy ± 1 nm or better
- No of channels: 2 numbers of channels to be acquired simultaneously.
- Flow cell: 10 mm path length and 11 μ L cell volume or suitable to be supplied.
- Noise: $\pm 0.25 \times 10^{-5}$ AU or better
- Bandwidth: up to 6 nm or better
- Drift: $\leq 1 \times 10^{-3}$ AU/hrs/ $^{\circ}$ C at 254 nm, dry cell or better
- Data Rate: 80 Hz or more
- Detector linearity $\leq 5\%$ at 2 AU or better
- Measurement / Sensitivity range: 0.0001 - 2.000 AUFS or more

Columns and Consumables:

- Vials : 2 mL pack of 100 vials
- Syringe (2Nos)
- Filtration assembly consisting of sample filtration kit – one Nos.
- Membranes [Type: Dual (Aqueous & Organic solvents)],
 - (a) Size 13 mm diameter with Pore size 0.45 μ – Qty. 5 Pkt.
 - (b) Size 47 mm of 0.45 μ , Pore size - Qty. – 05 pkt.
 - (c) Pre-filters – Qty. – 05 pkt.
 - (d) Solvent filtration kit – One No
- Suitable PC & Printer with 3 KVA UPS of 1 Hr. Computer specification: Processor - Intel i5 (5th generation) ; RAM - 8 GB ; Hard disk - 1 TB ; Graphic Card; DVD writer; 17" TFT screen ; LAN Port ; USB 2.0, 4 Ports ; Wi-Fi ; Multimedia Keyboard ; Optical Mouse, Rewritable DVD. Operating System: Genuine windows 10 ultimate with media and documentation and certificate of authenticity. Preloaded latest licensed antivirus software. Printer: Laser printer monochrome with duplex printing and LAN port.

Auto sampler:

- Number of sample capacity: Minimum 90 vials or more
- Injection precision: <0.3% in partial-loop mode or better
- Operating pressure Range: 8000 PSI maximum or better
- Sample carry over: Not more than <0.02% with caffeine from previous injection.
- Injection volume range: 1 to 100 μ L with 200 μ L loop
- Linearity: Correlation coefficient >0.9995 for 1 - 100 μ L or better
- Inbuilt sample temperature control facility should be available

Warranty and others

- Minimum 2 years warranty with 1 or 2 year free service will be preferred
- On-site training for the operation of the hardware and software systems should be included.
- Required gas cylinder, purification panel and regulators to be quoted

Items to be quoted optionally

Photo Diode Array Detector:

- Wavelength Range: 190-800 nm or better
- Light source: Pre-aligned deuterium lamp and tungsten lamp
- Wavelength accuracy: ± 1 nm or better
- Digital resolution: <1 nm/ pixel
- Linearity range: < 5% RSD and correlation coefficient 0.999 up to 2.0 AU
- Base line noise: $\pm 8\mu$ AU or better
- Drift: $\leq 1.0 \times 10^{-3}$ /AU/Hr or better
- Path Length: 10 mm or better
- Flow Cell Volume: $\leq 13\mu$ l or equivalent
- Data acquisition rate: Up to 80 Hz or better
- Peak Purity, Peak scanning facility to visualize any difference in spectra to

find out multiple up to 4 co eluting impurity with retention time.

General Terms and Conditions:

System should be installed by company professional and detailed technical training and troubleshooting should be provided

- The supplier/vendor must be an original equipment manufacturer or the sole authorised agent/dealer/seller of the proprietary item.
- The system should be delivered within 8 - 10 weeks from the opening of the letter of credit or issue of purchase order, whichever is later.
- Costs and related information should be given only in the financial bid.
- The cost should include 24 months warranty of the overall system and CIP up to Chennai.
- Prices quoted should be valid for at least 90 days.
- Item-wise break up of cost should be provided for the different items (parts).
- IIT Madras reserves the right to exclude some items from the purchase.
- The payment conditions consist of 90% LC at site and 10% after installation and satisfactory training.
- The system should be installed and commissioned with no additional cost.
- Training at IIT Madras should be provided with no additional cost.
- Two copies of the system manual should be provided in CD form.
- There must be a local service agent in India.

Technical Bid should comprise of the following:

- Detailed Technical brochure
- Detailed technical write up explaining how each of the Technical Specifications are complied with.
- The list of at least three Institutions/R&D units/Industry where similar installations have been supplied in India/abroad including contact details (name of the person in-charge, email and phone number) is to be provided.
- EMD SHOULD NOT BE ENCLOSED IN THE TECHNICAL BID

After Sales, Service & Application Support:

Vendor should have after sales service support centre and application support centre for the offered System at India to provide prompt services, application support for various applications of our interest.

Reference:

Quoted model should have at-least 3 installation in India/Abroad. Three performance certificates of the quoted model in reputed institutions in India should be enclosed duly signed and stamped by the concerned scientist. Recent Performance should be enclosed.



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI 600 036



B NAGARAJAN
JOINT REGISTRAR (IC & SR)

Project Accounts
July 22, 2016

TO WHOMSOEVER IT MAY CONCERN

In connection with project, **US currency may be transferred to CANARA BANK, IIT - MADRAS Branch** with the following details.

FOR TRANSFER OF CURRENCY US DOLLAR

Please Credit in USD

(THROUGH)


JP MORGAN CHASE, NEW YORK
SWIFT CODE: CHASUS33

For Credit to

USD ACCOUNT No: 001-1395969, of CANARA BANK INTERNATIONAL DIVISION
MUMBAI

For Further Credit to

ACCOUNT NO: 2722101001741 of IIT Chennai – Swift Code: CNRBINBBIIT
OF THE REGISTRAR, IIT, MADRAS


JOINT REGISTRAR (IC & SR) i/c.
சீமுவன் குலசபிவ (आई.सी. एवं एस.आर.)
JOINT REGISTRAR (IC & SR)

आई.आई.टी. मद्रास

This is to certify that the particulars furnished are correct.

For *Canara Bank*

Senior Manager
Canara Bank - IIT Madras branch



एस.अरवींदन
S.ARAVINDAN
Senior Manager
S.F. S.F./13 31849

