

	<b>INDIAN INSTITUTE OF TECHNOLOGY MADRAS</b> <b>Chennai 600 036</b>  Telephone: (044) 2257 4229 E-mail: gsekar@iitm.ac.in	
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Dr. G. Sekar  
Project Coordinator

Ref: CHY/GSEK/2019-20/002/SPLX  
Dated: 01.08.2019

Limited Tender No: CHY/GSEK/2019-20/002/SPLX

**Due Date: 21.08.2019, 4:00pm**

**Pre-Bid meeting: - Not required.**

**Technical Bid opening meeting on Due Date: 21.08.2019, 4:30pm**

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “**HPLC SYSTEM**” 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. G. Sekar,**  
**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 **21.08.2019, 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. G. Sekar,**  
**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 **21.08.2019, 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 **"HPLC SYSTEM"** 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. **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.
11. **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).
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:** -
  - 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.
16. 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**

**TENDER SPECIFICATIONS FOR THE SUPPLY, DELIVERY, INSTALLATION AND  
COMMISSIONING OF 1 UNIT OF HPLC SYSTEM (Analytical)**

Complete Quaternary Gradient HPLC System (analytical) with Auto sampler, DAD (PDA) Detector, Chromatography Software, and Column Switching Valve (as optional) should be offered as per the below specifications

<b>Solvent Delivery Unit</b>	<p>Quaternary Gradient Solvent delivery system  Flow rate 0.001 to 10 ml/min  Flow rate accuracy <math>\pm 1\%</math>  Flow rate precision <math>\pm 0.06\%</math> RSD  Maximum pressure setting range 5,000 psi or above  Composition precision: 0.1% RSD  It must have a leak sensor as safety feature  Suitable gradient mixer, reservoir tray and rinsing kit for pump washing should be offered</p>
<b>Degassing Unit</b>	<p>Online membrane vacuum degasser unit having 4 lines for quaternary gradient should be offered</p>
<b>Auto sampler with Sample Cooler</b>	<p>Sample injection volume should be variable between 0.1 <math>\mu</math>l to 100 <math>\mu</math>l  Injection volume setting 0.1 ul to 100ul  The Carry over must be below 0.005% or better, as lowest carryover is preferred for accurate analysis data.  Injection volume accuracy : 1%  Injection precision RSD : 0.3% or better  Number of samples to be processed automatically at least 50 Nos. of 1.5ml Vial  Auto sampler should be capable of handling thermally liable samples and should come with sample cooler offering temperature control from 5 to 40 deg C  Block cooling/heating should be used together with dehumidifying function</p>
<b>Detector</b>	<p><b>Photo Diode Array Detector</b>  The wavelength range : 190 nm - 800 nm (minimum range)  Light Source: Deuterium (D2) lamp and Tungsten lamp  No of Diode elements : 512 or more  Slit Width: 1.2 nm and 8 nm  Wave length accuracy: <math>\pm 1</math> nm max.  Wave Length Precision: <math>\pm 0.1</math> nm max  Noise level: Less than <math>0.6 \times 10^{-5}</math> AU  Linearity: 2.0 AU (ASTM Standard)  Drift: <math>5 \times 10^{-4}</math> AU/h  Flow Cell Should be temperature controlled from 5°C above room temperature to 50°C  Flow Cell: Capacity: 10 <math>\mu</math>L, Pressure: 12 MPa ,Optical wavelength: 10 mm,  Functions: Contour output, spectrum library, MAX plotting  Suitable peak purity software  Auto threshold for peak purity  3D Spectral contrast algorithm account for random system noise in spectral noise in spectral comparisons</p>

<b>Data Management System</b>	<b>Software:</b> Suitable Chromatography Software to be quoted Software compliant with GLP standards and capable of controlling Complete HPLC through PC with data acquisition, data control, chromatogram and special analysis facilities. System suitability, System security as well as System check functions has provided which comply with Good Laboratory Practice & Good Manufacturing Practice (GLP&GMP) US FDA 21 CFR part 11 compliance (electronic records & electronic signals)
<b>Warranty</b>	Complete support for equipment for at least a period of 24 months Warranty. Vendor to provide both on-site and operator training for users on the system start-up, usage, maintenance, quality control, trouble shooting. Also, performance certificate and user references of the quoted model from reputed institutions like IIT, and IISER should be enclosed.
<b>Column</b>	C18 column, 4.6 x 250 mm, 5u (1 number) C8 column, 4.6 x 250 mm, 5u (1 number)
<b>Column Switching Valve (quote as optional)</b>	Column Switching Valve (preferably for 6 columns) (quote as optional)