

35298/Pl. A1/2021/UOK

**Department of Botany, University of Kerala, Kariavattom,
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Tender Notice

Department of Botany, University of Kerala, Kariavattom, for the Innovative project on ‘Establishment of Translational Research Facility in Plant Cell Culture Technology-Year IV’ invites open tender through e-Procurement (two cover system) from the Original Equipment Manufacturers or their Authorised Dealers for the supply, installation and commissioning of “**HPTLC MS Interface**”

Last date and time for submission of tender online	: 07.10.2021 5.00 PM
Date and time of opening of tender	: After technical evaluation
For technical details contact	Dr. E.A. Siril Professor, Department of Botany University of Kerala, Kariavattom, Thiruvananthapuram INDIA Mobile +91-9447260101 email: easiril@yahoo.com

Technical specifications of Quotation for HPTLC MS Interface

Specifications

It should elute fractions from TLC /HPTLC plates after chromatography into any MS. 4 x 2 mm oval elution head. Work at 4 bar N₂ pressure.

In-line filter 2 µm or less filter size is to be provided to ensure no particles enter MS.

Laser cross hairs for positioning.

Automatic piston movement and cleaning function is to be provided. Filter size 5 µ or less.

Manual positioning with XY movement and valve switching facility

Can be kept on-line with LC-MS but in by-pass mode. Should be compatible with most LC-MS available in the market.

Nanotight peek fitting (fingertight nut and ferrule) feature is to be available

Column Saver 2µm, SST must be present

System operable condition should be at room temperature

Accessory: Pump for HPTLC MS interface

Pump specifications for HPTLC MS interface: Type- High Flow Pump

Large flow high pressure infusion pump features:

Solvent Delivery- plunger series mode, floating plunger design, single stroke volume 30ul.

Pump Head: 10ml stainless steel pump head

Flowrate: 0.1-10 ml/min

Working Pressure: Max Pressure 6000 psig

Inbuilt Timer: Pump auto stop after pre-set time.

System Protection: Slow start and stop, maximum and minimum pressure adjustable, user data automatic storage.

System line Size: 1/16"

Weight Approx: 10 kgs

Electronic Pressure Gauge (Display Pressure on System)

Power Supply: 220V±10%; 50HZ; 200W

Warranty: At least 24 months from the date of installation is to be offered for HPTLC MS interface and accessory pump.

General Conditions:

1. Every tenderer should submit Tender fee of **Rs. 2,500/-**
2. Every tenderer should submit an Earnest Money Deposit (EMD) of **Rs. 25,000/- or equivalent Bank Guarantee valid upto the installation of the equipment..**
3. The tender shall be submitted in the **two bid** viz. Technical Bid and Financial Bid. Only those qualified in technical bid will be eligible for participating in financial bid. A presentation regarding the technical specification and item to be supplied shall be done before the technical evaluation committee if requested.
4. The bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization from and Indian agents of foreign principals, if any, who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
5. **Compliance Statement:** Along with the technical details provide a tabular column indicating whether the equipment quoted by you meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures. **Vendors should provide clear brochures/data sheets about the equipment and its working. Also include adequate proof for the claim regarding the performance.**
6. **Reference:** Names of Institutes with contact person and telephone/ email where similar equipment supplied by you in India [Preferably South India] shall be mentioned in the bid..
7. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
8. The price should be inclusive of all taxes, duties, transportation, insurance, installation etc. Nothing extra will be paid in addition to the quoted rate. Any amount in Indian rupees for installation, commission, labour, spares, service etc shall be entered in item 2 of BoQ.
9. **Payment Terms:** 90% payment shall be made through irrevocable LC on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation commissioning and acceptance of the equipment **in case of foreign consignment.**

10. Validity of tender: Tender submitted shall remain valid at least for 120 days from the date of opening the tender. Validity beyond 120 days, from the date of opening of the tender shall be by mutual consent.
11. Delivery and installation: Proposed delivery schedule should be mentioned clearly. The item should be installed at the Central Laboratory for Instrumentation and Facilitation (CLIF), University of Kerala, Kariavattom Campus, Trivandrum-695581, without any extra cost (inclusive of documentation, demurrage, customs duty, clearance and transportation charges). Training (not less than three days) should be made at the Central Laboratory for Instrumentation and Facilitation (CLIF), University of Kerala, Kariavattom Campus, Trivandrum. University of Kerala will provide customs duty exemption certificates if required(i.e., Price quoted should be CIP, Central Laboratory for Instrumentation and Facilitation (CLIF), University of Kerala, Kariavattom Campus, Trivandrum-695581).
12. Service facility: Supplier should mention their details of service setup and manpower in Thiruvananthapuram who are responsible for after sales support.
13. The model number, make, and a printed literature of the product shall submit positively.
14. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.
15. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.
16. The quoted item should be under **comprehensive warranty for minimum 3 years**.
17. If any component is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.

Documents to be Uploaded

1. Signed Compliance Matrix
2. Detailed Technical Brochure
BoQ
4. Detailed Financial Bid in pdf format.