



CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
4, Raja S. C. Mullick Road, Jadavpur, Kolkata – 700032 India
PHONE: +91 33 2483-1982 **EPABX:** +91 33 2499 5837, 5788
FAX: + 91 33 2473-5197 **website:** <http://www.iicb.res.in>



Enquiry No.: IICB/PUR/24-25/599/615/T&PC/68

Date: 20.09.24

Corrigendum Notice

It is hereby informed that the tender for supply and installation of HPLC System has been published in NIC CPP Portal (<https://etenders.gov.in/eprocure/app>) vide tender ID 2024_CSIR_206361_1. In this regard following corrigendum may kindly be noted before participating.

1. The revised technical specification after Pre-bid meeting is mentioned at **Annexure A**.
2. Revised BOQ has been uploaded separately through corrigendum. Please note that there should not be any discrepancy between pdf version and BoQ version. However, in case there is any discrepancy, the pdf version will be final and comparison will be made on the pdf basis and if required the compliance sheet will be uploaded in the CPP Portal.
3. Delivery to be made from 60 days from the date of Purchase Order/Letter of Credit.

**Controller of Stores & Purchase
For & On Behalf of CSIR**

ANNEXURE-A

HPLC System

(High performance liquid chromatography system)

HPLC Pump (2 independent pumps)

- High-pressure mixing binary HPLC pump system with isocratic and gradient modes
- Settable flow rate 0 or 0.01 to 150 mL/min in each pump without changing the pump head or hardware
- Flow Accuracy: $\leq \pm 1.0 \%$
- Flow Precision: ≤ 0.3 min SD or Composition Precision: ≤ 0.1 min SD (retention time)
- Maximum discharge/Operating pressure: Up to 5000 psi or higher
- Suitable Gradient mixer
- Switch valve for analytical to preparative mode (manual or automatic)
- Built-in leakage sensor
- Auto purging system
- Maintenance kit, reservoir tray, and five solvent bottles (2 lit capacities with fittings) should be provided
- Compatible with the whole system and software-controlled

Manual injector

- Analytical manual injector with mounting plate: 1 number
- Preparative manual injector with mounting plate: 1 number
- Loops: 25 μ L, 200 μ L, 2 mL, 5 mL
- Hamilton syringe: 25 μ L, 100 μ L, 1000 μ L, 5000 μ L

Column Holder

- Column holder for holding analytical and preparative columns simultaneously with a diameter from 4.6 mm to 50 mm
- All relevant accessories, kits, joints, etc.

Photodiode Array Detector (PDA) – 1 No

- Analytical flow cell (volume ≤ 13 μ L): 1 number
- Preparative flow cell (variable volume): 1 number
- Wavelength Range: 190 nm to 800 nm
- Max plot measurement in real-time
- Wavelength Accuracy: ± 1 nm or better
- Noise: 10×10^{-6} AU or less
- Drift: 1×10^{-3} AU/h or less

- Linearity: 2.0 AU or higher
- Data Acquisition or sampling rate: 80 Hz or higher
- Photodiodes and resolution: 512 or 1024 and <1.2 nm/pixel
- Slit width: programmable slit (1.2-8 nm or better)

Software

- Windows-compatible original licensed software with built in SQL/Oracle or secure database must be provided to control all the functions, modules, and operations in real-time and offline. The part number should be mentioned in the technical bid
- GLP/GMP/21 CFR part 11 compliant with a built-in un-editable secure database
- Ethernet/USB-based connections for stable communications
- Facility for the data to be converted into other formats such as PDF, excel spreadsheet, etc
- Flexible reporting format and easy to use in any desired format - Qualitative and quantitative processing, report creation, and self-diagnosis
- Software should have features for future integration of mass spectrometer, ELSD or RI, etc

Computer/printer/UPS

- Suitable computer with the latest Windows operating system compatible with the software
- 14th Generation Intel (R) Core™ i9 processor or higher
- Microsoft Office
- DVDRW; Hard disk: ≥ 1 TB; RAM: ≥ 16 GB
- Standard keyboard, monitor, and mouse
- 4 or more USB ports and other necessary features to ensure smooth operation of the system
- Branded UPS 2.0 KVA with at least 30 min backup
- Laptop for remote access, data processing, and data storage (14th Generation Intel (R) Core™ i9 processor or higher; Hard disk: ≥ 1 TB; RAM: ≥ 16 GB; latest Windows operating system and Microsoft Office).

Warranty: Onsite 3 years warranty from the date of installation including desktop, laptop, and UPS.

Installation: This should be carried out by the vendor's/supplier's/manufacture's skilled team with fitting, software installation, commissioning & testing of the quoted system at no extra cost.

Training: Vendor/Supplier/Manufacturer should provide comprehensive training of 3 days at the time of installation on operation, maintenance, and application of the supplied HPLC at CSIR-IICB Jadavpur, Kolkata.

Application support: Application support by dedicated application specialists for method development and any required application must be provided by the vendor during the entire warranty period as and when required free of cost.

Service: In case of any malfunctioning of the system, service should be provided within 3 days by the vendor/supplier/manufacturer.

Accessories: All necessary accessories needed to attain full functionality such as connecting lines, fitting, wire, toolkit, adaptor, ferrule, nut, connector, solvent filters, detector lamps etc. should be provided in sufficient quantity. A suitable electrical extension board for connecting the HPLC with UPS should be provided.

Other conditions

- Operating voltage 230V/50 Hz
- All the parts (Pump, detector, software etc) of the system should be from the same manufacturer and provide make and model along with the detailed technical brochure.
- Validation: The vendor should perform at least one validation including IQ/OQ/PQ on the supplied HPLC at the time of installation.
- Supplier/Vendor should have supplied at least 3 or more quoted/similar instruments to central/state govt. institutes/universities or similar organizations and they should provide installation certificates, service reports, and performance certificates while applying for bids.
- Vendor must provide a statement that all the required spares will be available after the expiry of the warranty period for at least ten years.