



**CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY**  
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संख्या/ Enquiry No.: IICB/PUR/2025-26/599/615/02

दिनांक/ Date: 13.08.25

**निविदा दस्तावेज का शुद्धिपत्र**  
**Corrigendum to Tender Document**

एतद्वारा सूचित किया जाता है कि अल्ट्रा परफॉर्मेंस लिक्विड क्रोमैटोग्राफी फोटो डायोड ऐरे सिंगल क्वाड्रुपोल मास स्पेक्ट्रोमीटर की आपूर्ति, स्थापना परीक्षण और कमीशनिंग हेतु निविदा एनआईसी सीपीपी पोर्टल (<https://etenders.gov.in/eprocure/app>) पर निविदा आईडी 2025\_CSIR\_241788\_1 के तहत प्रकाशित की गई है। इस संबंध में, निविदा दस्तावेज का संशोधित तकनीकी विनिर्देश (अध्याय 4) सूचना एवं डाउनलोड हेतु संलग्न है (अनुलग्नक 'ए')। इसकी एक प्रति CSIR-IICB वेबसाइट पर भी अपलोड कर दी गई है।

It is hereby informed that the tender for supply, installation testing and commissioning of Ultra Performance Liquid Chromatography Photo Diode Array Single Quadrupole Mass Spectrometer has been published in NIC CPP Portal (<https://etenders.gov.in/eprocure/app>) vide tender ID 2025\_CSIR\_241788\_1. In this regard a revised Technical Specification (Chapter 4) of the Tender Document is enclosed herewith (Annexure A) for information and downloading. The copy of the same has also been uploaded in CSIR-IICB website.

सभी संभावित बिडर से अनुरोध है कि कृपया दिनांक 13.08.25 का शुद्धिपत्र नोटिस देखें और तदनुसार अपनी बिड/प्रस्ताव/कोटेशन प्रस्तुत करें।

All the prospective bidders are hereby requested to kindly see the corrigendum notice dated 13.08.25 and submit their bid/ offer/ quotation accordingly.

निविदा अधिसूचना (निविदा पृष्ठसंख्या: IICB/PUR/2025-26/599/615/02) के अन्य सभी नियम और शर्तें अपरिवर्तित रहेंगी।

All other terms and conditions of the tender notification (Tender Enquiry No: IICB/PUR/2025-26/599/615/02) will remain unchanged.

*सुभाष*  
13/08/25

अनुभाग अधिकारी (भंडार एवं क्रय)  
**Section Officer (Stores & Purchase)**  
सीएसआईआर-आईआईसीबी  
**CSIR-IICB**



## Annexure A/ अनुलग्नक 'ए'

### Revised Technical specification

#### **HPLC Pump (Quaternary): 1 No.**

- Four-channel (quaternary) pump
- Flow rate: 0.001 to 5 ml/min
- Flow Accuracy:  $\leq \pm 1.0 \%$
- Flow Precision:  $\leq 0.08 \%$  RSD
- Composition or concentration accuracy:  $\leq \pm 0.5 \%$
- Operating pressure: 9500 psi or better

#### **Online degasser: 1 No.**

- Online degassing unit with four or more channels

#### **Integrated Injector and Autosampler: 1 No.**

- Injection volume setting Range: 0.1 - 50  $\mu\text{L}$
- Injection volume precision:  $\leq 1 \%$  RSD or Injection volume accuracy:  $\leq \pm 1 \%$
- Sample carryover:  $\leq 0.004 \%$
- Injection cycle  $\leq 30$  sec
- Temperature: 4-40  $^{\circ}\text{C}$
- Sample tray capacity: 70 or more vials of 1.5-2.0 ml capacity with the tray holder etc

#### **Column Oven: 1 No.**

- Should have peltier/electronic/forced air circulation heating/cooling facility
- Temperature range: Ambient (or Room Temperature) to 65  $^{\circ}\text{C}$
- Temperature control Precision/stability:  $\leq \pm 0.3 \%$
- Temperature accuracy:  $\leq \pm 0.8 \%$
- Should accommodate 2 or more columns of 300 mm length

#### **Photodiode Array Detector (PDA): 1 No.**

- Wavelength Range: 190 - 800 nm
- Wavelength Accuracy:  $\pm 1$  nm or Better
- Noise:  $\leq 10 \times 10^{-6}$  AU
- Drift:  $\leq 1 \times 10^{-3}$  AU/h
- Linearity:  $\geq 2.0$  AU
- Data Acquisition or sampling rate: 80 Hz or higher
- Photodiodes: 512 or 1024
- Slit width or band width: 1.2 nm
- Analytical flow cell: Volume  $\leq 13 \mu\text{L}$
- Lamp: D<sub>2</sub> or D<sub>2</sub> + Tungsten lamp

#### **Single quadrupole mass spectrometer: 1 No.**

- Ion source: ESI and APCI/API or Dual source of ESI and APCI
- Data acquisition Mode: Both positive and negative ion modes
- Polarity switching:  $\leq 25$  msec
- Mass range: m/z 30 - 2000 or better
- Mass resolution or unit mass resolution: 0.7 u (or Da) better
- Mass stability:  $\leq 0.1$  u (or Da)
- Mass accuracy:  $\pm 0.2$  u (or Da) or better
- Scan speed: 15000 u/sec (Da/sec) or better
- Sensitivity for ESI positive for Reserpine m/z 609.3: S/N > 100
- Acquisition modes: Full MS Scan and Selective ion recording/monitoring
- Vacuum system: Highly efficient and compatible vacuum pumps



## Revised Technical specification

### Software: 1 No.

- Windows-compatible original licensed software to control all the functions, modules, and operations in real-time and offline, and should be able to perform the analysis using both PDA and MS detectors, and should have life lifetime license validity
- During warranty periods, software updates should be provided free of cost
- GLP/GMP/21 CFR part 11 compliant with a built-in uneditable secure database

### N<sub>2</sub> Generator: 1 No.

- A compatible nitrogen generator needs to be supplied along with the instrument, with a 5-year warranty.

### Computer: 2 No.

- A suitable computer with the latest Windows operating system, compatible with the software
- 14<sup>th</sup> Generation Intel (R) Core™ i9 processor or higher
- Microsoft Office
- Hard disk: ≥ 1 TB SSD; RAM: ≥32 GB RAM
- Monitor (≥29 inch), Keyboard (standard, English), mouse (three button, scroll)

### Laserjet printer: 1 No.

- Black and white

### Refrigerator: 1 No.

- > 400 lit double door refrigerator (≥ 4 star rating)

### Branded UPS: 1 No.

- 10 KVA with at least 1 hour backup

### Warranty

- On-site 5-year warranty for the entire system from the date of installation, including N<sub>2</sub> generator, vacuum pumps, desktop, printer, refrigerator, 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 5 days to the faculty and students at the time of installation, operation, maintenance, and application of the supplied System at CSIR-IICB Jadavpur, Kolkata

### Application support

- Application support by a dedicated application specialist for method development and any required application must be provided by the vendor during the entire warranty period, as and when required at no extra cost

### Service

- In case of any system malfunction, service should be provided within 3 working days by the vendor/supplier/manufacturer from the date of intimation.



## **Revised Technical specification**

### **Accessories**

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

### **Other conditions:**

- Operating voltage 230V/50 Hz
- All the parts of main instrument (HPLC Pump, Online degasser, Integrated Injector and Auto-sampler, Column Oven, Photodiode Array Detector, Single quadrupole mass spectrometer) should be from the same manufacturer, and the make and model should be provided along with the detailed technical brochure.
- Supplier/Vendor should have supplied at least 3 or more quoted/similar instruments to the central/state govt. institutes/universities or similar organizations, and they should provide installation certificates etc.
- The 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.