



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM [IISERTVM]**

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GST No.32AAAJI0299R1ZS

IISER/PUR/2097/BS-P/SC/24-25

Date: 10.12. 2025

RETENDER CORRIGENDUM

Sub: Supply and Installation of Analytical High-Performance Liquid Chromatography and accessories: reg

Ref: Tender Enquiry No. 2025_IISRT_851085_1

1. The above mentioned tender is re-tendered with revised technical specification at Annexure 1.
2. The due date and date of opening will be as follows:-

Due Date: 29 December 2025 1500 Hrs
Date of opening 30 December 2025 1530 Hrs
3. All other Terms and Conditions remain the same. Bidders may quote accordingly

Thanking You,

Yours Faithfully

Amman Sadath
10/12/25

Assistant Registrar (P&S)

Annexure 1 to tender IISER/PUR/2097/BS-P/SC/24-25

Technical Specifications

Solvent Delivery System
Binary solvent delivery system with two individual pumps and high pressure mixing and delivery
Two separate pumps with high precision parallel type double plunger should be provided.
Pump module should have isocratic and gradient capabilities.
The flow rate setting range between 0.001 to 10 ml/min or higher
Flow rate accuracy should be less than $\pm 1\%$.
Flow rate precision should be less than $\pm 0.06\%$ RSD or better.
Operating pressure range: up to 5800 psi (or higher) or in other unit.
Gradient curve setting function and leak sensor should be available.
The composition accuracy 1% & composition precision below 0.1% RSD.
Operating pH range should be 3 to 10 or better.
Reservoir Tray (1 No.) and Solvent Bottles (4 No. or more) and appropriate suction tubes with inline metal/ceramic or equivalent filters must be provided for use with use with HPLC Grade solvents.

Manual Injector
Manual injector with 20 μ L Sample loop, Injector holder and 25 μ L Syringe should be provided.
A future upgradation option should be available for onsite upgrade for an autosampler with online degasser.
Column Compartment
Forced Air Circulation type heating facility for uniform temperature distribution and maximum temperature accuracy/quick heating
Temperature control range should be 10 $^{\circ}$ C below room temperature to 80 $^{\circ}$ C or better.
Temperature control precision should be $\pm 0.1\%$ or better
4 or more columns of ≥ 250 mm length should be accommodated at a time.
A future upgradation option should be available for onsite upgrade for an automated "Switching valve" for atleast 4 columns.

Amrith Sabath
10/12/25

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C18 column 4.6 × 250 mm, 5 micron -1No
Photo Diode Array (PDA) Detector
Photo Diode Array Detector – 1 No
No of Diode Elements: 1024 Diodes or greater
Light Source: Deuterium and Tungsten Lamp with 2000 hrs or larger warranty
Wavelength range should be 190 nm to 800 nm or better
Wavelength accuracy should be ±1 nm
Wavelength reproducibility should be ±0.1 nm
Programmable bandwidth: (8 nm – high sensitivity mode, 1.2 nm – high resolution mode)
Drift: 0.4×10^{-3} AU/hr or better
Noise level: $\pm 4.5 \times 10^{-6}$ AU
Linearity: 2AU or greater
Temperature controlled "TaperSlit" flow cell (10 mm length) to ensure high sensitivity while maintain optimal spectral performance.
Software and Data Management System
Standard Licensed Chromatography Software based on latest Windows version capable of controlling the entire HPLC system, data acquisition, analysis & storage.
Performance: Should cover one-point digital instrument control, qualitative and quantitative processing, report creation and self-diagnosis
Data Report: Should be customizable
Help Wizard: Available
Automatic execution of system checks, auto Purge and baseline checks.
Log files: Available for complete audit trails
Regulatory compliance: Software should comply with 21 CFR Part II
Should perform IQ/OQ and should provide certificate
Real time triggers to react the condition i.e. to take action on fault, Leakage, Stop, Start, wavelength switching, injection, etc.

Amun Sathya
10/12/23

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Computer
Branded PC with original OS and Antivirus Protection
Minimum 16GB RAM & 500 GB Storage
Latest Core i5 or better processor, 2.4 GHz or better
22" LED monitor or better
Brand(s) should be specified for PC/Monitor
Other Requirements
The system should be accompanied by a conformity Certificate
Bidder has to upload original catalogue for the quoted model before participation.
All quoted items should have their part number to verify through official website/catalogue.
The certificate that all spares required for quoted instrument shall be available for next 10 years from date of installation should be provided.
Demonstration and training on operation, application, calibration and trouble shooting of the equipment at IISER Thiruvananthapuram shall be provided by the supplier without any additional cost.
The service engineer should be available in Kerala and contact details should be provided.
7 or more successful installations for the same quoted model or one with comparable specifications in IITs, IISERs, IISC, NITs and CSIR labs
5 or more successful installations for the same quoted model or one with comparable specifications in Kerala
5 or more performance certificates from atleast 3 Government Organizations in Kerala should be submitted.
Should be 3 years warranty

Anwar Sadath
10/12/25