



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

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GST No.32AAAJI0299R1ZS

IISER/PUR/028/6/GS-P/SC/24-25

Date: 11 Nov 2024

RETENDER CORRIGENDUM-II TO
TENDER NO
No IISER/PUR/028/6/GS-P/SC/24-25

Sub: Supply Installation and Commissioning of Fully Automated Preparative
Recycling HPLC System: reg

Ref: Tender Enquiry No. 2024_IISRT_813471_2

1. Since the quoted price is higher than the estimates, the above mentioned tender is re-tendered with revised technical specifications at Annexure 1.
2. The due date and date of opening will be as follows:-
Due Date: 02 Dec 2024 1500 Hrs
Date of opening 03 Dec 2024 1530 Hrs
3. All other Terms and Conditions remain the same. Bidders may quote accordingly

Thanking You,

Yours Faithfully

Anwar Sadath
11/11/24
Assistant Registrar (P&S)





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Annexure to TENDER NO
No IISER/PUR/028/6/GS-P/SC/24-25

HPLC SYSTEM

01 NOV 2024

1. Specifications for the HPLC System

- Compact and Fully Automated Preparative Recycling HPLC system for separation and purification of organic compounds.
- Suitable to work continuously for purification of complex compounds and work without PC during long repeated purification period.
- System to accommodate two or more detectors in series for simultaneous operation to detect different target components
- Wetted material of the pumping is suitable for long time continuous use to avoid contamination / corrosion
- Program facility for automatic timing of collection of targeted fractions for purification.
- Programmable automatic recycling sample for repeated multiple passes through column without consuming large amount of Solvent.
- The system should be equipped with non-diffusion recycling system to prevent the sample from running back into solvent line and to avoid any damage to the Detectors with back pressure
- The instrument should be equipped with Auto Cleanup function between analysis to prevent residual contamination
- Solvent volume alert function for remaining solvent volume in reservoir for long time purification
- Automatic Peak detection for Fraction collection: Auto detection by Time, peak Slope, peak Height.

Solvent Delivery:

Pumping system: Non-diffusion pumping system

Maximum Flow rate: 90 mL/min

Max. Operating Pressure range: 30 MPa

Flow stability: Coefficient of variation less than 0.3

Programmable Pump sequence timing range: 0-999 mins

Automatic Programmable recycling with Non diffusion device

Anwar Dadakh
11/11/24



UV-VIS Detector:

Array type UV-VIS detector for simultaneously monitoring different fractions at different wavelengths from 200 nm to 800 nm; low cell: 0.3 ~ 0.4 mm
Sensitivity: 0.00005ABU at 254 nm

Sample Injector: Manual and Automatic Injector

Manual Sample Injector: Variable injector Rheodyne 7725i; Sample loop: 10 ml
Event marking, Injection, Recycle and Collect

Automatic sample Injection: Auto Repeat Injector with settable volume 0.1 to 99.9 ml
No. of samplings: 90 and above
Special mode: Staked Injection to save Solvent and Time

Fraction Collector: In-built Fraction collector with 8 and above Fractional ports

Chromatography Data System: Chromatography Data System for simultaneously monitoring signal from two detectors

Configuration similar to standard Windows Laptop suitable for the instrument

Minimum five fully automated instruments must have successfully installed in INDIA

Column Holders: For 10 mm and 20 mm diameter Columns.

Power Supply: 240 V AC.

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