

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, JAIS, AMETHI

Dated: 30.04.2019

CORRIGENDUM-1

Technical Specifications	Bid should be submitted as per below mentioned Revised Technical Specifications
Last date of submission of E-Tender	13.05.2019 (Monday) on or before 03.30 p.m
Opening of Techno-Commercial Bid	13.05.2019 (Monday) at 04.00 p.m

Revised Technical Specification of High Performance Liquid Chromatography (HPLC)

TENDER NO. RGIPT/Jais/E-Tender-CRF-VSS/2018-19/14

Solvent Delivery Unit (Pump) with Degassing Unit:

Pump: Quaternary low pressure gradient pump

Pumping System: Software controlled

Settable Flow range: 0.001 mL/min or lesser to 10 mL/min

Flow Increment: 0.001 ml or better

Flow accuracy: $\pm 1\%$

Flow Precision: $< 0.1\%$

Retention time reproducibility/ Composition precision: RSD $< 0.5\%$

Maximum Pressure: 5800 Psi or better with Active Inlet valve for high buffer applications.

Flow calibration: Programmable.

Degassing unit: included

Auto Sampler

Must have a capacity to hold 100 samples or more

With auto dilution, premixing and needle rinsing programs.

Injection Volume Range: up to 100 μ L or better

Operating pressure: 6000 psi or more

Sample Delivery Precision: 0.30% RSD or better

Carry over: 0.005% or lower

Priority sample: Programmable

PDA Detector

Wavelength Range: 190-800nm

Wavelength Accuracy: ± 1 nm

Number of Diodes: 1024

Optical resolution: 1.2 nm or better

Linearity range: $< 5\%$ at 2 AU, propylparaben at 257nm

Base line noise: 10×10^{-6} Au, 10nm cell at 254nm

Drift: $< 1.0 \times 10^{-3}$ /Au/hr/ $^{\circ}$ C, dry cell 254nm

Data acquisition rate: Upto 80Hz.

Light source: (Single Deuterium lamp or multiple Lamps) with 2000 hour warranty

Refractive Index Detector

Flow rate: between 0.1 to 10.0 ml/min., analytical to narrow bore applications.

Cell volume: 10 μ L.

Cell pressure: <100psi maximum

Temperature control: Internal oven: 30 - 55 $^{\circ}$ C, +/-0.5 $^{\circ}$ C, settable in 1 $^{\circ}$ C increments.

Refractive Index range: 1.00 to 1.75 RIU

Noise: $< 2.5 \times 10^{-9}$ RIU mode.

Drift: $< 2.0 \times 10^{-7}$ RIU/hr.

Column Compartment

Thermostatted Column Compartment with cooling facility

Operating between 5- 80 degrees C

Can be upgraded same module with 4 column switching for alternate column switching in future.

Chromatography Manager Software:

Software for Control, acquire and process HPLC data.

Pre-made templates, customizable data reports, online help and answer wizard embedded oracle data base, report publisher, versatility for multitasking without multiple software package.

- Software must register all events (log files) audit trails for Data, Method, Batch, Report, System Policy and User Administration

HPLC Columns

- MIL-53(Fe) packed column or equivalent
- C18 column 4.6x250 mm 3 μ
- C8 column 4.6x250 mm 5 μ
- COSMOSIL PYE column or equivalent for structural isomers
- Chiral Stationary phase column or equivalent for structural isomers

Accessories: Sample and Solvent filtration Assembly, Latest PC (Latest configuration of i5 Processor with 8 GB RAM, 500 GB HDD, Windows 8 and 19" LED Monitor) , Laser Printer, UPS (5 KVa) , Bottles (5 Nos.). HPLC 1.5 ml vials: 1000 Nos

Warranty: 3 years comprehensive warranty for total HPLC, Computer (PC), Printer and UPS.

The other terms & conditions of the E-Tender remains unchanged.

This issues with the approval of the Competent Authority.

Sd/-
Stores & Purchase Officer