

CHAPTER 4

Corrigendum in Technical Specifications: Preparative HPLC

Items	Description
General remark & application	The preparative HPLC system purification and separation of small organic compounds at milligram to gram scale.
Pump type & parameters	<ul style="list-style-type: none"> (i) Type: Binary. (ii) Pump pressure 5000psi or more (iii) Flow rate: 150 mL/min or better. (iv) Flow-rate accuracy: $\pm 1\%$ or better. (v) Flow-rate precision: 0.3%RSD or better.
Injector	<ul style="list-style-type: none"> (i) System should have Autoinjector & autosampler. (ii) Autosampler support flow rates at up to 150mL/min or more (iii) Autoinjector should be capable of injecting up to 3000uL or higher (iv) Three variable size sample vials/tubes in 500 numbers each.
Column Holder	Column holder must be provided
Columns	Three preparative C18 column with approximate sizes of 150 x 10 mm, 5 μ m (1 no.), 250 x 20 mm, 10 μ m (1 no.), 250 x 30 mm, 10 μ m (1 no.) along with appropriate guard column (3 number).
Detector	<ul style="list-style-type: none"> (i) Type: Photo diode array (PDA). (ii) Wavelength range: 190nm to 800nm or better (iii) Number of diode 1024 or more (iv) Wavelength accuracy: 1 nm or better. (v) Noise: 1×10^{-5} AU or better (vi) Drift: 1×10^{-3} AU/h or better (vii) Preparative Flow cell: SST or Quartz with 0.5mm path length or better
Fraction Collector	<ul style="list-style-type: none"> (i) Automated fraction collection (ii) Fraction collection tubes having three different sizes approximately between 14-30 mL or more, and suitable fraction collector trays/holders should be provided. (iii) Tubing's and capillaries must be provided for supporting preparative flow rates.
Chromatography Software, computer & printer	<ul style="list-style-type: none"> (i) Provide Software which enabled to control complete HPLC System, acquisition of data, and analysis. (ii) Up-gradation in future must be provided free of cost. (iii) Branded computer with latest (i-7 or better) processor along with at least 23 inch monitor and colour printer with multiplexing optic should be supplied.
Accessories, Installation & Training	<ul style="list-style-type: none"> (i) All necessary accessories need to attain full functionality such as connecting lines, fittings, wires etc. shall be provided (ii) Machine should be installed at NIPER, Raebareli (Lucknow campus). (iii) Vendor should provide four times training on operation and application of the equipment on request of user during the initial three year (two basic and two advance training).
Toolkit	A separate toolkit covering all types of wrenches, cutter, crimper, joining seals etc. must be provided.
UPS	Branded UPS (5 KVA) or better with 1 hr backup at least.
Up-gradation in future	Can be upgraded with Mass spectrometry in future by the same manufacturer or vendor
Additional	(i) Syringes (three different sizes in 10 numbers each).

accessories	(ii) Syringe filters: 0.5 µm, nylon (10,000 numbers). (iii) Detector lamp (two number each D2 and tungsten lamps).
Warranty	Three year warranty including part should be quoted in main bid.
Note	All the modules of Prep HPLC system must be from single OEM (original equipment manufacturer).
Optional item	Normal phase preparative column with size 150 x 10mm, 5 µm (1no.) Normal phase preparative column with size 250 x 20mm, 10 µm (1no.) Normal phase preparative column with size 250 x 30mm, 10 µm (1no.) Reverse phase C18 preparative column with size 250 x 50mm, 10µm (1no.)