



Notice Inviting e-Tender

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Procurement, supply and installation of Hi Tech Analytical Instruments for State Drugs Control & Research Laboratory (SDCRL) of the Government of West Bengal
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-279 /2025

Dated-08.04.2025

The following amendment have been made in the tender document,

Amendment –I (Revision of Technical Specification)

The revised technical specifications for the item is given below,

High-Performance Liquid Chromatography (HPLC) System with Accessories

SL	Features	Specification
	A complete HPLC System	A complete HPLC System with Pump, Auto Sampler, Detector, Column Oven, Software, Columns and necessary PC-Printer. All units must be from a single manufacturer with 3 Years Warranty.
1	Pumps	<ul style="list-style-type: none">• Pump should provide error-free programming of pump parameters including flow rates, operating pressure limits, compressibility compensation, calibration and diagnostics.• Pump hydraulic system should be dual piston in series pump with variable stroke design and smooth motion control for active damping• The Solvent Delivery Unit (Pump) should be capable of operating with 2 or more Solvents at a time during gradient operation limits, compressibility compensation, calibration and diagnostics.• Number of solvent channels should be Four.• Settable flow range should be from 0.001 - 5.0 mL/min, in 0.001 mL/ min increments.

		<ul style="list-style-type: none"> Flow precision value should be ≤ 0.07 % RSD. Flow accuracy should be ± 1 %. Must deliver a flow rate of up to 5.0 mL/min. Must have an operation pressure range of 0 - 800 bar (11600 Psi) up to 5ml/min Pressure pulsation < 1 % amplitude Should have a pH range 1.0 - 12.5. Integrated online degassing unit for minimum 4 channels. Composition precision should be < 0.15 % RSD. Delay volume ≤ 350 μL Active seal wash Enables automatic software-embedded functionalities such as switching the optional mixer in and out or automatic purging Should have facility to ensures seamless method transfer/delivering the same chromatographic results of other HPLC or latest UHPLC method Should have the provision for complete up gradation capability (module wise and system wise) in future.
2	Auto sampler capacity with sample cooler	<ul style="list-style-type: none"> The Auto sampler must have a capacity to hold 120 samples or better Must have an operation pressure range of 0 - 800 bar (11600 Psi) Injection range should be 0.1 to 100 μL. Sampler should be capable of injection volume range upto 1500 μL or higher with additional loop and hardware modification as and when required. Precision should be < 0.25 % RSD Carryover should be < 0.004 %. Injection cycle time should be 18 s or better. Should have advanced features like auto dilution, premixing and needle rinsing programs. Sampler Thermostat temp: 4-40deg
3	Column Thermostat	<p>Thermostatted column compartment with Peltier should have following features:</p> <p>Settable Temperature range: 10°C below ambient to 85°C</p> <p>Temperature stability: ± 0.1 °C</p> <p>Temperature accuracy: ± 0.5 °C</p> <p>Temperature precision 0.05°C</p> <p>Column capacity: minimum 4 columns (max. 300 mm)</p> <p>Warm-up/ cool-down time 5 min from ambient to 40°C & 10 min from 40 to 20°C.</p> <p>Compatible for selection of columns by single optional integrated 4-column selection valve 800 bar</p>
4	Photo Diode Array Detector	<ul style="list-style-type: none"> Wavelength range should be 190 - 950 nm or more. Detection type should be with 1024-element photodiode array. Light source - Deuterium and tungsten lamps. Data rate 120 Hz or better (both spectra and signals) Wavelength accuracy = ± 1 nm. Slit width should be 1, 2, 8 & 16 nm. Flow cell- Standard: 13 μL, volume, 10 mm cell path length or better Short term noise $< \pm 1 \times 10^{-5}$ AU

		<ul style="list-style-type: none"> • Drift < 1.0,10⁻³AU/h at 254 nm. • Linear absorbance range> 2 AU (5 %) at 265 nm. • Data traceability for flow cells and lamps should be there.
5	Chromatography Software	<ul style="list-style-type: none"> • Windows based software for evaluation of data, control and operation of entire system. • System security to be provided by the software and not by the operating system • User accounts, user privileges and audit trails are maintained by the software and not by the operating system • Compliance with cGMP /GLP & Electronic Record rules • Software should have its own built in report. • Software should control multi detectors (DAD-FLD-RID) at a time • Data that has been reviewed and approved may be locked to prevent further manipulations • Software should offer extensive custom calculation capabilities (Concentration, calibration curve, peak soothing, peak subtraction etc.) eliminating the need for external applications to meet the laboratory need.
6	Analytical Columns	<ul style="list-style-type: none"> • Analytical Columns ✓ C18 column (4.6 mm ID x 250 mm length, particle size 5µm): Qty-4 ✓ C18 column (3 mm ID x 150 mm length, particle size 2.7µm) : Qty-1 ✓ C8 column (4.6 mm ID x 250 mm length, particle size 5µm) : Qty-4 ✓ Silica column ((4.6 mm ID x 250 mm length, particle size 5µm) : Qty-1 ✓ CN column (4.6 mm ID x 250 mm length, particle size 5µm) : Qty-1 ✓ Phenyl column (4.6 mm ID x 250 mm length, particle size 5µm) .Qty-1 ✓ Compatible Guard Column 1 set for each type of column
7	Accessories	<ol style="list-style-type: none"> 1. Sample Vials 1.5 ml or greater 1000 Nos 2. PTFE Frits 5 Nos 3. Deuterium lamp : 1 Nos 4. Solvent bottle clear,1000ml with cap 4 Nos 5. Solvent bottle amber, 1000ml 4 Nos
8	IQ/OQ	IQ, OQ of instrument and Software should be provided along with document.
9	GLP Features	Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of seal wear and volume of pumped mobile phase with pre- defined and user settable limits and feedback messages. Electronic records of maintenance and errors
10	Computer & printer	<ul style="list-style-type: none"> • Computer with Processor type: Intel Core i7 Processor (>3.0GHz), 16 GB RAM or better. • Memory size: 1 TB HD, CD-ROM or DVD + RW drive, USB port. • Operating system; Windows10/11 Professional (64 bit) or most recent with license. • Monitor type: Wide Screen Monitor (Minimum 22" or better); Graphic Resolution 1920x1080 or better • Suitable B/W laser printer. • Warranty 3 years for PC, Printer

		<ul style="list-style-type: none"> • Portable Data Handling & Storage System <p>Factory supplied suitable & compatible branded PC for running offered software or Portable Data Handling & Storage.</p>
11	Delivery	Delivery as F.O.R Destination
12	Warranty	<ul style="list-style-type: none"> • 3 years warranty from the date of installation. • The vendor should have availability for 7 years guaranteed parts and services even after last unit of manufacture
13	Compliance Statement	<ul style="list-style-type: none"> • The supplier must submit technical brochures and proper application notes adequately explaining and confirming the availability of the features in the model of the equipment being quoted. • The supplier must submit a table indicating the compliance of the features of the model of the equipment being quoted with those given in the indent. • Features not matching - must be clearly indicated. • Additional features and features in the quoted equipment which are better than those in the indent - may be clearly explained. • Bids submitted must be with a Technical specifications of each module quoted to evaluate the technical compliance. • All pre-installation requirements must be attached