

UNIVERSITY OF JAMMU
SCHOOL OF BIOTECHNOLOGY, UNIVERSITY OF JAMMU-180006

School of Biotechnology, University of Jammu, Jammu & Kashmir is interested in the purchase of **UPGRADATION OF HPLC SYSTEM** as per specifications given in the Annexure 1. The Department invites sealed bids / tenders bids from reputed Manufacturers or their Authorized Distributors / Dealers for Supply, Installation and Training of **UPGRADATION OF HPLC SYSTEM**. Interested parties may submit their sealed bids online as per Technical Specifications given at Annexure 1 and General Terms & Conditions given at Annexure II. The tender will be published online on <https://jktenders.gov.in>. The TECHNICAL BID and PRICE BID has to be submitted online before the due date i.e. 2nd January 2021 Whereas hard copy of the TECHNICAL BID along with EMD has to reach to the office of the Director, School of Biotechnology, University of Jammu, Jammu 180006 before the due date in a sealed envelope (duly superscripted with Tender No. and date).

For any query pertaining to this tender contact Professor B. K. Bajaj, School of Biotechnology University of Jammu, Jammu 180006.

The technical bid will be evaluated first and price bid will be opened only in respect of those Vendors, who are found technically qualified after evaluation of Technical Bid. The Technical bid will be opened on 4th January 2021 in the School of Biotechnology, University of Jammu, Jammu - 180006

Director
School of Biotechnology,
University of Jammu, Jammu - 180006

Ref. No. JU/SBT/2020/2816
Dated: 07-12-2020

Annexure-I

Item No	Equipment	Quantity	Technical Specification
1	<u>UPGRADATION OF HPLC SYSTEM</u>	1	<u>THESE ARE THE MINIMUM SPECIFICATIONS. EQUIPMENTS WITH BETTER SPECIFICATIONS WOULD ALSO BE CONSIDERED.</u>

Quotation

Upgrade-Quaternary Gradient fully auto LC

Detail Products description

1 176269501 e2695 Separations Module w/oSHC w/CH(BI)

1. Overall System

- Low dispersion fluidics (< 650uL, independent of back pressure) enhance fast gradients and rapid system equilibration
- System Prep capability for unattended system priming, purging and equilibration of system
- Remote operation via Waters Empower, Millennium32 or MassLynx software
- Direct programming via intuitive user interface
- 5,000 psi (345 bar) system pressure capability for Solvent/ Sample Management fluidics
- 316 grade stainless steel based fluidic pathway supplemented with zirconia ceramic, sapphire, ruby, and polymeric materials

2. Solvent Management

- Solvent conditioning via four-channel high efficiency vacuum in-line degasser
- Low volume degassing chambers (<500uL) enhance rapid solvent changeovers
- Pulse free solvent delivery with 0.075% RSD flow precision (0.200 to 5.000 mL/min)
- Eleven available gradient curve profiles; linear, step, concave and convex
- Automated, continuous solvent compressibility compensation
- Low pressure mixing, quaternary solvent proportioning
- Automated, continuous plunger seal wash
- Serial flow path with only 2 check valves
- Tool-free, simple access to plungers, plunger seals, plunger wash seals

3. Sample management

- 120 sample capacity via industry-standard 2 mL vials configured in 5 x 24 vial carousels
- Alphabetically indexed and color-coded carousels for multiple users - Compatible with Waters unique range of HPLC Certified vials
- Sample delivery precision <0.5% RSD (5 to 80uL)
- Programmable variable-volume injection volume range of 0.1 to 2,000 uL
- Tool-free replacement of needle wash frit
- Programmable needle height in 1 mm increments
- User-settable stat runs, auto additions and auto standards routines
- Programmable dynamic needle wash (i.e. no wash vial) minimizes sample carryover

4. Column temperature control

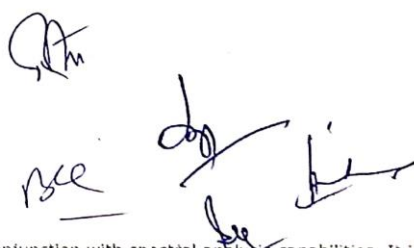
- Column Heating Option
- Forced air recirculation Peltier-based column heater/cooler module
- 20°C (5°C above ambient) to 65°C
- Integral mounting clips for column(s) and tubings

5. Warranty on system sub-assemblies

- Solvent manager drive mechanics - 2 years or 200,000 injections, whichever occurs first
- Sample manager drive mechanics - 2 years or 200,000 injections, whichever occurs first
- Seal pack assembly - 1 year or 15,000 injections, whichever occurs first

2 176299801 2998 Photodiode Array Detector

The 2998 Photodiode Array (PDA) Detector offers advanced optical detection, providing unprecedented trace impurity detection and quantitation in conjunction with spectral analysis capabilities. It is the ideal detector for any lab application from compound identification to method development. For routine analyses, the 2998 PDA



Quotation

Upgrade-Quaternary Gradient fully auto LC

Detail Products description

detector is reliable, easy-to-use, and has enhanced software control to provide flexibility for simultaneous 2D and 3D operation.

Features include:

- Patented TaperSlit™ flow cell ensures high sensitivity while maintaining optimal spectral performance
- Low noise performance of 10^{-4} AU - Wide, linear dynamic range with constant optical bandpass
- Simultaneous quantification of high- and low-level components within a single chromatographic separation
- Flexible sampling rates for normal and fast LC separations from 1 to 80 Hz
- Independent optimization of sampling rate and time constant gives you the ability to tune your detector to your separation goals
- Definitive compound identification & co-elution detection
- Spectral exposure optimization to maximize the signal-to-noise across the entire wavelength range with a single Deuterium lamp
- Lamp optimization for the best s/n performance over the lifetime of a Deuterium lamp
- Console software for simple control, monitoring, and diagnostics
- Thermal wander management for maximum baseline stability
- Flow cell options to match your separation scale and type

3 176003106 Alliance D Series Bottle Tray

[For Single or Dual detection systems]

The e2695 Separations Module solvent tray with solvent management. Includes detector drip tray and bracket for a second detector. This tray provides the capability to locate the detector directly above the column heater or column heater/cooler thus minimizing ambient temperature effects upon column to detector flow cell tubing. The solvent tray and detector drip tray accessory kit (205001247) incorporate design features for improved tubing management. This kit supports all refreshed (blue) HPLC detectors. The detector base shall include an integrated leak management scheme applicable to any of the new designed (2013) HPLC detectors. Solvent bottle configurations can be up to (2) 4-Liter bottles, and (4) 1-Liter bottles.

4 176003144 Empower 3 System License 1 Pack

Empower 3 System License 1 Pack
Includes Personal Software 1 System License

5 740000811 WATERS SOFTWARE UPGRADE W/PLAN PERSONAL

5 named user licences

12 months from installation, includes:

- F.O.C. delivery of upgrades during contract period (w/o installation) after registration of the "Plan ID Number" on www.waters.com. (information on the plan ID no. is available at phone. 01-877 18 07-38, Monika Schill, during our office hours
- exclusive access to the Connections Elite Support Center on www.waters.com
- discounts on Waters software trainings



Annexure-II

General terms and conditions

1. Rates should be F.O.R. Jammu University Campus.
2. In case of foreign manufacturer kindly quote F.O.R Jammu University Campus in foreign currency. Also quote tentative charges for custom Duty, Clearance charges and Transportation and Insurance up to Jammu separately.
3. Goods must conform to our indicated specifications. Detailed technical and other specifications / literature must be enclosed.
4. Indicate concessional rates of tax for educational institutions. The GST rates must be clearly mentioned separately.
5. The submission of the tenders will be online. The Technical Bid and Price bid has to be submitted online on www.jktenders.gov.in. Whereas the hard copy along with EMD has to be submitted offline on or before due date in a sealed envelope.
6. Earnest Money Deposit (EMD) 2% of estimated price to be submitted along with commercial bid. Bids without EMD will be rejected.
7. The warranty of the product should be at least five Year.
8. The rates should be valid for 120 days. Both technical bid and the commercial bid addressed to undersigned and duly sealed /signed and tapped with official stamp should reach this office latest by 2nd January 2021.
9. Bidder should submit Purchase orders and / user List as a proof of the dealing with other Government organizations / Institutions. The date of the supply order should be within last Three years from the date of publishing the BID.
10. Bidder should submit Valid Authorization Certificate from OEM for each against this NIT.
11. The firm/bidders should provide non blacklisting certificate mentioning it should not have criminal records/cases/activities.
12. Reports on Financial standing of the bidder such as profit and loss statement, balance sheet and auditor reports for the past three years, banker's certificate etc. should be provided by the bidders.
13. The bidder's firm should be established since last 5 years Documentary Evidence to be submitted along technical BID.
14. The bidder should have enough strength of people for the after sales support with their branch offices near to Jammu/Chandigarh. The details of Service Centre and Office addresses along with Service personnel need to be shared for the verifications.
15. Self-attested copies of GST and PAN card and Firm registration certificates to be submitted.
16. The bidder should have ISO or equivalent quality Certification.
17. The delivery, installation and operational training of the instruments/equipment should be completed within 45 days from placing of the order failing which the bank guaranty shall be retained by the Department.
18. The successful Bidder must provide Bank Guarantee equivalent to 10% of the cost of equipment to the Value of Order from Nationalized or Scheduled bank.
19. All Documents submitted in technical BID should be self-Attested (Signed and Stamped).