



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY  
(संसद के अधिनियम द्वारा स्थापित केंद्रीय विश्वविद्यालय)  
(A Central University established by an Act of Parliament)  
कुल सचिव का कार्यालय/ OFFICE OF THE REGISTRAR  
नपाम :: तेजपुर - 784028 :: असम  
NAPAAM :: TEZPUR - 784028 :: ASSAM

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### SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2017-18/3149-A dated: 25.10.2017

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following items required for the SERB Sponsored Research Project of Dr. Nashreen S. Islam, Department of Chemical Sciences, Tezpur University.

#### Item: HPLC System

##### Specification for HPLC System:

##### HPLC Pump (or delivery system)

- 2 Nos. of integrated HPLC pumps with dual reciprocating pistons and non-circular gear driven, pump should be provided to work in Isocratic, Binary Gradient and semi-preparative mode.
- Programmable flow range: 0.001 to 20.000 ml/min per pump with 0.01 ml/min increment or better for all kinds of Semi-Preparative application.
- The system should be capable of delivering precise volumes of mobile phase with minimum 48 step/ $\mu$ l or better.
- Flow Precision: 0.1% RSD or better.
- Maximum Pressure: 6000 psi throughout entire flow rate or better.
- The system delay volume : should be < 200  $\mu$ l for sensitivity.
- Flow accuracy :  $\pm$  1% or better
- The system should be capable to withstand the retention time variations of less than 0.1% for highly reproducible peak performance.
- Should have the capability to operate in at least 11 or more various gradient curve mode including Liner, Step, concave, convex, exponential, etc.

##### Manual Injector

- Rheodyne injector with 20  $\mu$ l, 50  $\mu$ l, 100  $\mu$ l, 200  $\mu$ l sample loops with accessories to fit the pump and syringe with stand.

##### UV/VIS Detector

- Wavelength range: 190 to 700 nm
- Wavelength accuracy:  $\pm$  1.0 nm over lifetime of the detector.
- Wavelength repeatability : $\pm$  1.0 nm or better.
- Optics: Dual wavelength
- Light Source: Deuterium lamp, tungsten lamp with 2000 hrs of lamp life without drop in the energy level with appropriate backup from software and hardware, temperature control for both lamps.
- Scanning capability with programmable scan rate.
- Should store minimum 10 individual scans with different scan rates with automatic blank subtraction.
- Noise: <5  $\mu$ AU (single wavelength) and <10  $\mu$ AU (dual wavelength) or better.
- Automated wavelength verification with internal filter (NIST traceable).
- Bandwidth: 5nm (Approx)



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- analytical cell: 10 mm Path length, volume 11  $\mu$ l
- one semi-preparative flow cell
- Automatic 2<sup>nd</sup> order filter to accommodate performance in visible range to 700nm without lamp change

#### Software

- User friendly chromatographic software suitable to control, acquisition, processing and reporting.
- should be quoted with a relational secured data base, independent of operating system and an interface for the software to the database for strong integrity and security of data.
- Measurement of retention times & component identification.
- Should support programming of at least 1 - 10 different gradient curves.
- Automatic peak detection, peak area measurement and baseline correction facilities.

#### Columns & Accessories

- Analytical C18 Column (250 x 4.6 mm x 5 $\mu$ ): 1No.
- Ppreparative column 250 x 10 mm x 5 $\mu$  : 1 No

**Demonstration, Commissioning & Detailed training on Instrument & Application has to be provided by the vendors on site.**

#### Essential Accessories:

- Latest branded PC and Printer for loading the HPLC software of above mentioned specification.
- Suitable on line UPS with 30 minutes backup to run the quoted HPLC system should be quoted.
- All accessories required for installation and calibration of the system.

#### Warranty

- Two years from the date of installation.

#### GENERAL TERMS & CONDITIONS:

1. No separate tender paper will be issued from the office; one should only download the specifications/List from the website.
2. **The rates should be preferably quoted in Indian Rupee and FOR Tezpur University, Napaam basis. Charges for clearing and transportation should be incurred by the supplier.**
3. *Quotations should be accompanied by i) An EMD (in the form of Demand Draft/Call Deposit/TDR) of ₹. 5000/- (Rupees Five Thousand) only drawn/pledged in favor of Registrar, Tezpur University, payable at Tezpur. **No request for consideration of earlier deposited EMD will be considered.** ii) A non-refundable application (quotation) fee of ₹.1000.00 (Rupees One Thousand) only must be paid only by Demand Draft drawn in favour of Registrar, Tezpur University payable at Tezpur.*
4. The rates should be exclusive of GST and applicable GST in % should be clearly indicated
5. Applicable levies, surcharge and discounts should be clearly indicated itemwise.
6. Quoted rates should be valid at least for a period of 01 year.
7. The rates should be quoted along with supporting documents of specifications and technical features and list of users.
8. The system must be installed at the laboratory, and after installation a basic training must also be provided by the supplier or their Indian counterpart without any additional costs.
9. All the quotations must be accompanied with supporting documents and / or literature.



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10. Demonstration may be sought from the vendors for authentication of quoted specification.
11. Details of availability of after sales support will have to be furnished. After sales support, directly from manufacturer and from Assam (Guwahati / Tezpur) will be preferred.
12. The University is exempted from paying Custom and Excise duty.
13. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
14. Warranty/Guarantee period should be specifically mentioned in the quotation.
15. No Advance payment will be made. However, for foreign supplier, advance payment will be made either by FDD/Wire Transfer/LC. In such cases 10% Performance Bank Guarantee should be submitted before issuing FDD/Wire Transfer/LC, covering the warranty period.
16. Performance Bank Guarantee also must be submitted for Major equipments of Indian origin, covering the warranty period.
17. Items of Foreign origin should have Insurance up to installation on site.
18. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
19. **Quoted price should be inclusive of essential accessories and should be CIF Tezpur University, Tezpur**
20. Applications for release of EMD should be submitted to the Registrar/ Joint Registrar.
21. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
22. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University latest by 24/11/2017. If posted/couriered, should reach before 24/11/2017 addressed to "The Joint Registrar, Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the envelope/packet containing the quotation.**

Sd/- Joint Registrar  
Tezpur University