



केन्द्रीय रेशम प्रौद्योगिक अनुसंधान संस्थान

केन्द्रीय रेशम बोर्ड

(यस्त्र मंत्रालय- भारत सरकार)

बी.टी.एम. लेआऊट मडिवाला बेंगलूरु- 560068

CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE

CENTRAL SILK BOARD

(Ministry of Textile - Govt. of India)

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QUALITY MANAGEMENT SYSTEM
ISO 9001:2008 CERTIFIED UNIT



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No.CSB/CSTRI/19(52)/2014-Stores.

Date : 26.12.2017

To

Sir,

Sub: Inviting Quotations for procurement of machineries / equipments for CSTRI, BANGALORE

With reference to the subject cited above, I am to inform that this Institute invites quotation in two bid system through e-procurement for supply of HPLC as per the specification mentioned below:-

SI.No.	Name of the Equipment and specifications	Qty.	DELIVERY PERIOD
	<p>SPECIFICATION FOR High Pressure Liquid Chromatograph with PDA detector.</p> <p>Solvent Delivery Pump: Pump : Quaternary Pump with Integrated degasser capable to deliver 4 solvents. Pressure Range : Up to 400 Bar Flow rate range : 0.001 – 10 mL / min Flow precision : ≤0.07 % RSD Flow accuracy : ± 1 % Pressure pulsation : < 2 % amplitude (typically < 1.0 %). Settable composition range : 0 – 100 % in 0.1 % increments. Composition precision : < 0.2 % RSD Integrated degassing unit : Number of channels: 4, Internal volume per channel: 1.5 mL Active Seal wash and Active Inlet valve : For working with high buffer concentrations. Safety & Maintenance : Extensive diagnostics, error detection and display through a software, leak detection, safe leak handling, leak output signal for shutdown of the pumping system. Control via Chromatography Data System Software</p> <p>Manual Injector : Manual injector with 20 µL sample loop and mounting stand, Additional Loops – 100 µL to be provided.</p> <p>Thermostat column compartment : Temperature range : Ambient to 60°C or wider range Column capacity : 4 columns of up to 300 mm length and column holder</p>	1 No.	90 days

	<p>Temperature stability : ± 0.1 °C Temperature accuracy : ± 0.5 °C Temperature precision : ± 0.05 °C</p> <p>Detector : Type of detector : Diode Array Detector with UV range. Wavelength range : 190 – 950 nm or more Detection type : 1024 - element photodiode array Short term noise (ASTM) Single and Multi-Wavelength : $< \pm 0.7 \cdot 10^{-5}$ AU at 254 and 750 nm Wavelength Accuracy : ± 1 nm Scanning speed : 120 Hz Slit width : 1, 2, 4, 8 nm or more Time programmable: Wavelength, polarity, peak width, lamp bandwidth, auto balance, wavelength range, threshold, spectra storage mode</p> <p>Spectral tools : Data analysis software for spectra evaluation, including spectral libraries and peak purity functions.</p> <p>Flow cell : Standard: 12 μL or more volume, Cell path length: 10 mm, 120 bar (1740 psi).</p> <p>Software:</p> <ol style="list-style-type: none"> a. Original Licensed 64-bit Software to run on Windows 10 operating system. Licensed Software with 2D/3D interpretation. Software for scanning spectra, peak purity. b. The Software should compatible with all the modules. c. It should be able to process signals from more than one wavelength. d. Should have the ability to acquire and analyze and store spectral library. e. Should have flexible reporting to make report in desired format. f. Must have lab monitor & diagnostics features. <p>Computer & Printer:</p> <ol style="list-style-type: none"> 1. Branded Desktop computer system (HP/Dell) with 18.5 Inch monitor of latest generation for high speed operation and high data storage. Should be completely compatible with all the operations that can be performed with the HPLC instrument provide. 2. HP 1020 Laser jet printer with USB port <p>Column: C18 HPLC Column – supported up to 400 bar. (120 EC-C18 4.6x100mm, 4μm)</p> <p>Consumables, tool kit and tubing:</p> <ol style="list-style-type: none"> 1. Two nos. of C18 HPLC Column – supported up to 400 bar. (120 EC-C18 4.6x100mm, 4μm). 2. Plastic syringe, syringe adapter, mounting tool for flangeless nut; wrenches, insert tool, Luer/barb adapter, hex keys, screwdrivers, blank nut, long, technical note. 3. Should includes spare parts such as stainless steel capillaries, inline filters etc. required for 3 years. 		
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TERMS & CONDITION :

1. The quotation in **two bid (Technical Bid & Financial Bid)** system should be uploaded in e-procurement only. (**website www.eprocure.gov.in**)
2. Financial Bids should consist of unit price, Excise Duty, Insurance , Packing & Forwarding , Erection & Commissioning, Transportation Charges, Taxes etc.,
3. The EMD should be paid in the form of Demand Draft/Bankers Cheque drawn in favour of the **Director, CSTRI, Bangalore**. The EMD does not carry any interest. **Please note that cheques will not be accepted. Quotation received without EMD will summarily be rejected,**
4. The Supplier shall provide Warranty/Guarantee valid for a minimum period of 12 months from the date of installation of the equipment / machineries. Any defects noticed in the equipment /machineries which is unintentional shall be set right by the supplier free of cost for good performance of the equipments.
5. The equipment should be supplied strictly in conformity of the above specifications, failing which, the equipment has to be taken back at your own cost.
6. Liquidated damages for delay & non supply @ 0.5% will be deducted from the bill per week for not supplying the item within the stipulated time subject to a maximum of 10% of the total cost of the equipment..
7. The performance security equivalent to 5% of the total contract value in the form of Bank Guarantee issued by any Nationalized Bank which shall be valid till three months after the expiry of the Warranty period should be furnished to this Institute within 10 days from the date of receipt of purchase order in the prescribed format.
8. No advance payment will be paid. The payment will be released only after delivery of the equipment in good condition as per our specification, Erection and commissioning
- 9 **The bidders should submit the Bank Details i.e.Bank A/c.No., Bank Name, Branch, IFSC code. Etc. along with quotation**

Yours faithfully,

DIRECTOR