

HLL LIFECARE LIMITED
 (A Govt. of India Enterprise)
 KANAGALA FACTORY KANAGALA, BELGAUM DIST
 KANAGALA Karnataka-591225
 Ph :08333-279244 Fax: 08333-279245
 purchasckfb@lifecarehll.com

[Registered & Corporate Office: HLL Bhavan, Poojappura, Thiruvananthapuram - 695012, Kerala.
 Ph: 0471-2354949. Web: www.lifecarehll.com CIN:U25193KL1966GOI002621.]

ENQUIRY LETTER

To

Enq.No : 1110145553

Date : 25.07.2016

Please quote the rate for the following items. Your quote shall reach us on or before 17.08.2016 15:00, Which will be opened at 17.08.2016 15:30

Sl.No.	Item Description	Quantity	UOM	Delivery Date	ECC
1	<p>HPLC system with accessories Supply, Delivery, Installation and Commissioning of Completely Modular Binary Gradient High Performance Liquid Chromatography System With Accessories.</p> <p>The HPLC system shall include the following individual stackable self- contained modules. The HPLC system must be controllable, monitored, capable of performing system maintenance using Microsoft Internet Explorer web browser. Modules must be connected via fibre optic noise resistant high-speed transmission technology to enhance the reliability and sensitivity of the HPLC.</p> <p>1. Solvent Delivery System for Micro, Semi-Micro, Analytical, Semi- Prep Flow Rates 2. Autosampler 3. Column Oven 4. Dual Wavelength UV/VIS Detector 5. Fluorescence Detector 6. System Controller 7. Chromatographic Software</p>	1.000	NO	30.09.2016	NO

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	<p>1. Solvent Delivery System for Micro, Semi-Micro, Analytical, Semi-Prep flow rates</p> <ul style="list-style-type: none"> # Two individual pump to work in high pressure binary gradient configuration. # It must be a high speed double micro-plunger in-parallel pump with automatic pulsation correction mechanism achieving pulse-free solvent delivery. # It should have a flow rate resolution of 3 nl/min # The flow rate should be settable between 0.0001 to 100 ml/min from micro to semi-preparative flow rates without any hardware changes # Flow rate accuracy should be $\pm 1\%$ or $\pm 0.5 \mu\text{l}/\text{min}$ of set value whichever is larger # Flow rate precision must be less than $\pm 0.06\%$ RSD # Pressure setting range should be 1-40 MPa # Pressure pulsation must not exceed 0.3 bar (0.03MPa) # The gradient formation should be produced through high pressure gradient mixing. # The precision of composition must be less than 0.1% RSD. # It should employ active check valves that allow stable delivery of even non-polar organic solvents such as hexane # Automatic rinsing of plunger must be available. # Maintenance kit should be quoted. # It should be capable of standalone operation # It should have up to 20 storage files # Maintenance kit, reservoir tray with 4 solvent bottles complete with fittings. # It must have a leak sensor as safety feature. # It should have functions for maintenance and validation which are accessible by a dedicated operation button <p>2. Autosampler</p> <ul style="list-style-type: none"> # Sample injection volume should be variable between 0.1 μl to 100 μl. # Injection system should be variable injection volume 				

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	<p>type with zero sample loss during injection # It must be capable of fast injection time of 10sec/sample # Number of samples to be processed automatically, random access up to 175 positions for 1ml vial volume, 115 for 1.5ml # Flow line rinse capability both before and after sampling should be possible # Needle aspiration speed should be variable from 0.1 to 15µl/sec # Rinse aspiration rate should be variable from 1 to 35µl/sec # It must be capable of a carry-over no more than 0.0025 % # Injection volume accuracy within 1% # The injection precision should be less than 0.3% of RSD value # Maintenance kit should be quoted. # It should have a leak sensor, automatic rack and vial recognition as safety feature # It should have functions for maintenance and validation which are accessible by a dedicated operation button # It should be capable of coupling to an automatic rack changer in the future for high throughput analysis # Supply of at least 200 sample vials of 1.0 ml capacity, complete with caps should be included</p> <p>3. Column Oven # It should be forced-air-circulation type for uniform temperature distribution with a quick feedback mechanism to maintain constant temperature level even when power source voltage fluctuates # The temperature range should be ambient ±10#C to 85#C # Temperature control precision should be ±0.1#C # The oven should have temperature limit device and temperature fuse and a solvent leak sensor # It should have functions for maintenance and validation which are</p>				

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	<p>accessible by a dedicated operation button</p> <p># Capable of complex temperature programming in linear and step programs</p> <p># It should have built-in slots for valve control functions</p> <p># It should be able to handle up to 6 x 30 cm columns</p> <p>4. Dual Wavelength UV-Vis Detector</p> <p># Both sensitivity and resolution must be optimized with a fixed slit width design and available simultaneously without sacrificing one for the other.</p> <p># The Bandwidth should be 8nm</p> <p># Wavelength range must be from 190nm to 700nm</p> <p># The flow cell must be temperature controlled from ambient $\pm 5^{\circ}\text{C}$ to 50°C</p> <p># Wavelength accuracy must be ± 1 nm maximum</p> <p># Wavelength reproducibility must be ± 0.1 nm</p> <p># Drift should be less than 1×10^{-4} AU/Hour</p> <p># Noise level should be $\pm 0.5 \times 10^{-5}$ AU</p> <p># It should have 9 selectable response times from 0.05 to 10.0 seconds with a detection range of 0.0001 # 2.56 AUFS in 0.0001 AUFS steps</p> <p># Must have time program capability in standalone (32 steps) mode</p> <p># Ratio chromatogram display at 2 wavelengths must be possible</p> <p># Wavelength scan should be possible in 1-5nm wavelength steps</p> <p># It should be able to monitor and quantitate 2 wavelengths simultaneously</p> <p># A Semi micro flow cell [2.5 $\frac{1}{4}$L volume, 5 mm cell path length, 12 MPa pressure max.] with temperature control with should be available as standard</p> <p># A Conventional flow cell [12 $\frac{1}{4}$L volume, 10 mm cell path length, 12 MPa pressure max.] with temperature control should be available as an option</p> <p># Linearity should be equal or more than 2.5AU</p>				

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	<p>6. System Controller # It should function as a communication bus module with data buffering capability # It should acquire up to 24 hours for one analysis, at 500ms sampling rate # It must be controllable from a web-based interface via a network. It allows the system to be controlled, monitored and maintained via Internet Explorer Web browser # It must be compatible with wireless networking # It must come with Expert function in that if pressure falls below specified value, the expert function will automatically purge the mobile phase # It should store up to 20 analysis files with a total up to 400 steps of time programs</p> <p>7. Chromatographic Software # Operation of the system should be very easy and intuitive via a state-of-the-art 32 bit Windows 7 based software # It should cover full one-point digital instrument control, qualitative and quantitative processing, report creation and self-diagnosis # Sample schedule wizard function should be standard # There should be an on-line help function context sensitive # The reporting format should be flexible and easy to use in any desired format # The data can be converted to other formats. Spread Sheet software and word-processing software can be readily employed to provide data in tables or graphs through industry standard protocols # The software should allow automatic execution of system checks, auto-purge and baseline checks # Software must have its own log files for complete</p>				

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	<p>(ASTM method) # It should have a self-aligning mechanism for the light sources and cell to allow alignment-free installation from the front # It should display sample and reference light intensity levels and accumulated lamp illuminated time # It should have self-diagnostics in standalone mode # A leak sensor and lamp replacement protection system (lamp automatically turned OFF) should be available. # A spare set of deuterium lamp and tungsten lamp must be quoted.</p> <p>5. Fluorescence Detector # The light source should be a Xenon lamp and a low-pressure mercury lamp should be available as an option for checking wavelength accuracy # The wavelength range should be 200nm to 650nm. An option should be available to achieve the range of 200 to 750 nm # The Spectral bandwidth should be 20nm # Wavelength accuracy should be $\pm 2\text{nm}$ # Wavelength reproducibility should be $\pm 0.2\text{nm}$ # The Signal to noise ratio for Water Raman peak should be minimum 1200 # A conventional flow cell [12 ¼L volume, 2 MPa pressure max.] should be available as standard # A Semi-micro flow cell [3 ¼L volume, 2 MPa pressure max.] should be available as an option # Cell temperature control from 4#C to 40#C in 1#C step should be available as an option. # The detector must be capable of monitoring any 2 wavelengths between 200 and 650nm simultaneously. # For ease of maintenance, the xenon lamp and flow cell must be accessible from the front panel with no tools required and alignment free.</p>				

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	<p>audit trails</p> <p># An audio-visual multi-media CD-ROM for Maintenance and Troubleshooting must be provided</p> <p># System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity</p> <p>Service, Warranty and Training</p> <ol style="list-style-type: none"> 1. The system should be accompanied with Conformity Certificate. 2. Tendered price should include installation, commissioning and training (at least 4 users) at customer's location. 3. On-site installation, commissioning and training shall be conducted by a qualified factory-trained engineer. 4. Complete support for equipment for at least a period of 12 months. This shall include the following at no extra cost: <ul style="list-style-type: none"> # Travel and Labour expenses of Customer Engineer. # Service Parts used for repairs. 5. Vendor to provide service guarantee: should the system require service during the warranty period, vendor must guarantee or replacement of instrument for free. 6. Vendor to have logistic support to ensure that over at least 95% of the service parts are readily available and upkeep delivery within 24 hours. 7. The warranty shall commence only upon successful completion of the Acceptance Test or commissioning. 8. Vendor to provide a copy of Site-Preparation checklist. 9. Vendor to provide both on-site and operator training for users on the system start-up, usage, maintenance, quality control, trouble shooting, etc. including comprehensive classroom training. 10. Vendor must demonstrate that it has a proven appropriate set-up 				

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	and capability to provide after-sales service efficiently and effectively. The supplier should have in his facility a similar system to that proposed in this tender for training purpose. 11. A declaration of Conformity certificate must be provided. 12. A declaration of System Validation certificate must be provided. 13. All modules must be GLP compliant. 14. A Sperate PC with TFT monitor should be provided along with laser jet printer				

1. The rate should be quoted F.O.R HLL STORES.
2. Payment shall be made preferably within 30 days after creceipt , inspection and acceptance of material
3. Offer should be valid for 1 year
4. Competitive rates shall be quoted for supply to our stores in the following manner.

Rates of Excise Duty, Sales Tax , etc. applicable should be clearly furnished.

- a. Basic price :
- b. Excise duty (%) :
- c. Sales Tax(%) :
- d. Insurance :
- e. Frieght :
- f. Any other details :

F.O.R HLL STORES _____

Special Instruction :
Pre-requisite Condition:

1. The details Rates should be quoted F.O.R. HLL Stores Kanagala.

2. Quotation should be sent by Speed Post / Professional/DTDC and Sealed & Superscribed "HPLC SYSTEM WITH ACCESSORIES PR: 1110145553" DUE DATE: 17.AUGUST.2016* at our Factory site at Kanagala, Belagavi Dist (Karnataka).

3.Tender to be submitted in Two Bid System Technical Bid as per USER SPECIFICATION & Price bid in the separate envelope for the supply of HPLC SYSTEM WITH ACCESSORIES.

4. The Quotations received after due date / time will not be considered.

5. The DELIVERY TIME required to supply the material should be clearly indicated in the Quotation (refer Pre-requisite Condition mentioned above).

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6. EARNEST MONEY DEPOSIT (REFUNDABLE): AN AMOUNT OF RS.60000/- ONLY IN THE FORM OF DEMAND DRAFT (DD) DRAWN IN FAVOUR OF *HLL LIFECARE LIMITED" PAYABLE AT STATE BANK OF INDIA, NIPANI # 591 237 TOWARDS EMD SHOULD BE ENCLOSED ALONG WITH YOUR QUOTATION / OFFER ONLY.

7. EMD is waived off for MSME/ small scale industries, however vendor has to produce valid certificate.

8. Payment Terms: Within 30 days after inspection acceptance.

9. LD / SD Clause applicable.

10. In the event of placement of Order, item as per our specification, shall be supplied immediately on receipt of our Purchase Order. And Quotations of those Vendors, which will fulfill this condition, only will be considered.

11. Detailed Specification/Annexure enclosed for your reference.

You shall have to provide a certification confirming that the machine/equipment/product/process being offered by you is environment friendly, ie. it is non-hazardous to the environment.

The above tender/order is liable to be suspended or cancelled at any time at the discretion of the company with or without assigning any reason.

Your Tax Identity Number as per VAT ACT should be indicated in all your quotations and invoices.

The above item(s) to be supplied within the delivery date mentioned in our RFQ
This has confirmed along with your offer

Yours Faithfully,

For HLL LIFECARE LIMITED



AUTHORISED SIGNATORY