

# **TENDER DOCUMENT**

**Supply of Analytical cum Semi-preparative HPLC**



**Regional Plant Resource Centre**

**Nayapalli, Bhubaneswar-751015**



Advt. No.2535/RPRC

Date 03.11.2016

**Tender Call Notice for supply of  
'Analytical cum Semi-preparative HPLC'**

Sealed tenders are invited from reputed manufacturers (Principal)/authorized agents/ distributors/dealers engaged in supply of HPLC systems having valid VAT / CST registration for supply of 'Analytical cum Semi-preparative HPLC'. The technical specifications, other terms and conditions and formats are available in the website [www.rprcbbsr.com](http://www.rprcbbsr.com), which can be downloaded for use. Interested parties may submit their tender super-scribed "**Tender for supply of Analytical cum Semi-preparative HPLC**" through speed post/ Registered Post/Courier service, which should reach the undersigned on or before **15<sup>th</sup> November, 2016 (5.00 PM)** positively. Incomplete tenders and tender documents received after the due date and time will not be considered. The undersigned reserves the right to reject any or all the tenders without assigning any reasons thereof.

*It is also informed to all concern that the previous tenders received in response to the Advt.No.2214/RPRC dt.23.09.16 are cancelled due to technical reasons.*

SD/-

**CHIEF EXECUTIVE**

## **Terms and Conditions for supply of Analytical cum Semi-preparative HPLC**

### **1. Sale of Tender paper:**

The tender papers, containing the detailed specifications of equipment, list of documents to be submitted etc. will be available at Regional Plant Resource Centre, Bhubaneswar from **4<sup>th</sup> November, 2016** (during the office hours only), on payment of a non-refundable fee of **Rs. 420/- (Rs. 400/- +VAT@5%)** in cash or in shape of pay order/demand draft drawn in favour of Chief Executive, Regional Plant Resource Centre (RPRC), payable at Bhubaneswar. The same can also be downloaded from our website [www.rprcbbsr.com](http://www.rprcbbsr.com) and in such a case, the cost of tender paper is to be enclosed in shape of D.D/Bankers cheque drawn in favour of Chief Executive, RPRC, payable at Bhubaneswar along with the tender. The cost of tender paper and **EMD (Rs.35,000/-)** should be submitted in shape of Demand drafts/ Bankers cheque. In case of any bid amendment and clarification, responsibility lies with the tenderers to collect the same from the notice board/ website of RPRC before last date of submitting the tender document. Non-payment of cost of tender paper and EMD will amount to rejection of the tender.

2. The last date of receipt of tender documents in this office by Speed Post/ Registered Post/ Courier Service is **15<sup>th</sup> November, 2016 (up to 5.00 PM)**. The Technical bids will be opened by the Tender Committee of RPRC on **16<sup>th</sup> November, 2016 (at 11.00 AM)** in presence of the authorised representatives of the tenderers who like to be present at that time. The date of opening of the financial bids of technically qualified tenderers shall be communicated to them in due course of time.

### **3. Bid System:**

- a) The tender should be submitted in two bid system i.e, “Technical Bid” and “Financial Bid”. Technical bid contains documents as per the tender terms along with EMD and cost of tender paper in appropriate shape. The technical bids containing information on price, directly or indirectly, will be liable for rejection. Financial bid contains only the price bid as per **Annexure-III**. The technical bid and financial bid required to be submitted in two separate envelopes clearly mentioning on top of the envelope “Technical bid” and “Financial bid” respectively and both of these should be placed in a big envelope marked with “Tender for Analytical-cum-Semi-preparative HPLC for RPRC”.
- b) Required Specification of the equipment is given in **Annexure-I**.
- c) General description of the quoted equipment should be as per **Annexure-II**.
- d) Total Quoted Price (INR) should be based on **F.O.R.** delivery upto RPRC, Bhubaneswar. Price for Main HPLC System (Item Sl.#1 to 6 in Annexure-I) should be ‘Single Consolidated’. Plus, break up prices against all taxes, freight, packing, transit insurance, forwarding, custom clearance, transportation, installation & training etc. should be clearly mentioned separately indicating percentage and amount in price quotation.
- e) Quoted Price (INR) for Optional Items should have ‘individual rate’.

- f) The clearing & forwarding etc. of the equipment will be done by the tenderer only. RPRC will provide necessary documents, if required.
- g) The rates quoted by the tenderer shall be valid for a period of 90days from the date of submission of tender.

#### **4. Eligibility Criteria**

- a) Submission of price (INR) as per prescribed format.
- b) Copy of VAT/CST registration certificate and up to date VAT/CST clearance certificate.
- c) Tender paper cost.
- d) Required EMD.
- e) Alternative price for any item will not be allowed, for which tender would be rejected.
- f) Copy of PAN to be submitted.
- g) Undertaking that the tenderer has not been blacklisted by any Govt.

Organization/Institution.

- h) Undertaking that the quoted item qualifies the required technical specification.
- i) Check list of documents submitted (Should be attached as **Annexure IV**)
- j) Copy of recent past performance (certificate/relevant doc.). (Should be attached as **Annexure V**)
- k) Undertaking that the tenderer must assure that it has a proven appropriate set-up and capability to provide after-sales service efficiently & effectively.
- l) The tenderer (in case of authorized agent/distributor/dealer of reputed manufacturer) should have sufficient credential in supplying HPLC systems through at least last 3 years of their establishment in India (evidenced with relevant documents).

#### **5. Validity of Tender:**

- a) The tender shall remain valid for a period of 90 days after the last date as specified in the tender.
- b) Notwithstanding the above, the purchaser reserves the right to accept or reject any bids and to cancel the bidding process and rejects all bids at any time prior to the issue of Purchase order.

#### **6. Issue of Purchase Order:**

- a. The purchase order will be placed on the qualified tenderer whose bid will be selected by the purchaser prior to expiry of the bid validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- b. The delivery should be completed within 60 days from the date of receipt of the confirmed purchase order as per the quality and specification of the equipment.
- c. The packaging should be done in such a way that the quality of the equipment is not damaged.
- d. At the time of inspection if any item is found not as per the order the tenderer will replace the same immediately other wise payment will not be released for defective items.

- e. Irrevocable Letter of Credit (LC) for 100% cost of the equipment shall be opened in the supplier's Bank for imported equipment and 90% of the cost of the equipment shall be released on receipt of despatch documents through Bank; balance 10% shall be paid on successful installation and demonstration of the equipment in RPRC Lab.
- f. In case 100% payment is requested by a foreign Principal against despatch of goods, its Indian agent has to submit a Bank Guarantee equivalent to 10% of the invoice cost.
- g. Any effort by a tenderer to influence the purchaser in its decision on bid evaluation or placement of purchase order may result in rejection of the tenderer's offer.
- h. If the selected tenderer fails to execute the order the EMD would be forfeited and action would be taken to blacklist the tenderer.
- i. Any legal dispute arising out of this is subject to Bhubaneswar jurisdiction only.

SD/-

**(Chief Executive)**  
**Regional Plant Resource Centre**  
**Bhubaneswar**

## **Annexure-1**

### **REQUIRED TECHNICAL SPECIFICATION OF 'ANALYTICAL-CUM-SEMI- PREPARATIVE HPLC'**

#### **1.Pump: Quaternary Pump**

Hydraulic system: Dual piston in series pump with servo-controlled variable stroke drive, Power transmission by gears and ball screws, floating pistons Settable flow range

Flow range: 0.2 – 10.0 mL/min

Flow precision:  $\leq 0.07$  % RSD, or  $\leq 0.02$  min SD whatever is greater (based on retention time at constant room temperature)

Flow accuracy:  $\pm 1$  %

Pressure: Operating range at least up to 60 MPa (600 bar, 8700 psi) up to 5 mL/min

Gradient formation: Low pressure quaternary mixing/gradient capability using High-speed proportioning valve

Integrated degassing unit: Number of channels- 4

#### **2.Detector: (Dual Wavelength)**

UV Detector, Variable Wavelength

Detection type: Double-beam photometer

Light source: Deuterium

Data collection rate: 120 Hz (single wavelength detection)

Wavelength range: 190 – 600 nm

Linear absorbance range:  $> 2.5$  AU upper limit

Wavelength accuracy:  $\pm 1$  nm

Slit width: 5-8 nm

Time programmable: Wavelength, polarity, peak width, lamp on/off

#### **3. Injector**

Manual injector with 20  $\mu$ L sample loop and mounting stand with up to 5000  $\mu$ L Loop for Analytical and Semi-preparatory application

#### **4.Column Oven**

Column oven temp. should be 4–85 °C or better

Eluent pre-heater are preferable.

Temperature accuracy  $\pm 0.5$  °C

Temperature stability  $\pm 0.1$  °C

Humidity:  $< 95$  % r.h. at 40 °C (104 °F)

Solvent heat exchangers: For pre-column solvent heating

Column Capacity: minimum 4

#### **5. Columns**

C 18 Column 3-5  $\mu$ m particle sizes, 4.6  $\times$  150 mm-with guard column

C 8 Column 3-5  $\mu$ m particle sizes, 4.6  $\times$  150 mm- with guard column

#### **6. Data Management System**

##### **6.1.Hardware-PC**

Intel Core i5 Duo processor or similar or higher

4GB RAM on board or higher

1000 GB hard disk or higher

DVD-RW drive

21" LED-TFT colour monitor

101 keys key board and mouse

Pre-installed Windows

Multi-functional Laser Printer

## 6.2. Software

Operation of the system should be easy and intuitive via HPLC software that should be compatible with Windows

## 6.3. UPS

2KVA Online UPS with min 30 min back up time, with 2 years warranty (minimum).

## 6.4. Installation Accessories

Sample & Solvent filtration kit with oil free vacuum pump and necessary filter papers (100 Nos each for Aqueous & Non-Aqueous & solvents)

## -----Optional Items-----

### 1. Compatible Column C18/C8

### 2. AMC Charge

### 3. Refractive Index Detector with Carbohydrate Analysis Column & guard Column

### 4. Auto Samplers/Vial Sampler

Module integration : Should accommodate Integrated column compartment (column oven) and sample cooler as options inside of the module

injection volume range : 0.1 to 20 $\mu$ L expandable upto 1500  $\mu$ L by seat loop extension

Injection Cycle Time : 18 seconds

Cooling Accuracy: 2  $^{\circ}$ C to 6  $^{\circ}$ C at a set point of 4  $^{\circ}$ C

Capacity: 132 vials (2 mL) or 36 vials (6 mL vial)

Pressure range: upto 1300 bar (18850 psi)

Precision: Typically < 0.25 % RSD

Sample viscosity range: 0.2 - 5 cp.

Sample Capacity: 132 x 2 mL vials; 100x2 ml;

Carryover should be typically < 0.004 % with needle wash

Integrated column compartment for two LC columns with temperature control up to 80  $^{\circ}$  within the module

### 5. Fraction Collector

Maximum System Flow Rate: 10 mL/min or up to 100 mL/min with semi prep needle and 0.8 mm tubing

Tigger Mode: Time slices and peak (threshold, up-/downslope, upper threshold and timetable),

Boolean logic for different detector signals, combination of different modes, manual trigger

Fraction containers: Shallow or deep well plates up to 48 mm height

(96 or 384 format)

- Test tubes up to 48 mm height, or up to 75 mm height with semiprep needle
- Autosampler vials (2 mL and 6 mL)
- Eppendorf safe-lock tubes (0.5 mL, 1.5 mL, 2.5 mL)

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**Annexure-II****GENERAL DESCRIPTION OF THE EQUIPMENT QUOTED BY TENDERER**

Name of manufacturer	Make and model	Catalogue No.	Technical specification	Warranty period	Name of Tenderer



### Annexure-III

FINANCIAL BID: DETAILED TECHNICAL SPECIFICATION AND PRICE				
Item Sl. No.	Part No.	Technical specification	Quantity	Price (INR)
Single consolidated Price for Main System(Sl.1-6)				
-Less discount, if any				
Taxes, if any				
freight, packing, transit insurance, forwarding, custom clearance, transportation, installation etc.				
TOTAL PRICE (F.O.R, RPRC, Bhubaneswar)				