

## **News paper advt.**

### **Tender Notice**

ARIBAS invites tender for supply, erection, installation and commissioning, testing, demonstration and training of **HPLC**, as per specifications given in the document can be downloaded from the website (<http://www.aribas.edu.in>) of the Institute.

All offers should be made in English and should be written in both figures and words.

## **TENDER FOR SUPPLY & INSTALLATION OF HPLC AT ARIBAS**

Manufacturer and/or authorized dealer of original equipment manufacturer (OEM) are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise. The Director, ARIBAS, reserves the right to select or to reject any quotation wholly or partly without assigning any reason.

### **Pre – Qualification Criteria :**

1. Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
2. An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.
3. OEM should be internationally reputed Branded Company.
4. Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.

### **Terms and Conditions:**

1. The technical and financial bids should be quoted separately and put in different sealed envelopes marked “**Technical bid**” or “**Financial bid**” as applicable. These separate bids envelopes are to be put in an outer envelope which should also be sealed.
2. The technical and financial bids should be submitted in original. The financial bid should include the cost of main equipment/item and its accessories. If there is any separate cost for installation etc. that should be quoted separately.
3. Each individual sealed envelope as well as the outer envelope should be marked with the following reference on the top left hand corner: “**ARIBAS/DST/HUN/2017/HPLC-1**”
4. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender. The bidders should submit copies of suitable documents in support of their reputation, credentials and past performance.
5. The rates should be quoted in figures (typed or printed) and overwriting should be avoided. The final amount should be in figures as well as in words..
6. Any bids received after **4.00 p.m. on 20th June 2017** shall not be considered.
7. The **Technical Bids will be opened on 24th June 2017 at 11:00 am..**
8. While sending rates, the firm shall give an undertaking to the effect that “*the terms/conditions mentioned in the enquiry letter/Tender Notice against which the rates are being given are acceptable to the firm.*” In case the firms do not give this undertaking, their rates will not be considered.
9. If the supplier/firm is original equipment manufacturer (OEM)/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.

10. All tender documents should have to be sent through courier, speed post or registered post only. All tender documents received after the specified date and time shall not be considered. The postal address is: **“ARIBAS Store and Purchase” ADIT CAMPUS, New V Vidyanagar ANAND 388121 Gujarat, India”**
11. In the event of any dispute or difference(s) between the vendee Institute (ARIBAS) and the vendor(s) arising out of non-supply of material or supplies not found according to specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to “Chairman, Charutar Vidya Mandal (CVM)Mota Bazaar, Vallabh Vidhyanagar, Anand, Gujarat 388120”
12. All disputes shall be subject to Anand Jurisdiction only.

**Prices:**

The Prices quoted should be inclusive of all taxes or duties, packing, forwarding, freight, insurance, delivery and commissioning etc. at destination site (ARIBAS). CVM is registered with DSIR, Govt. of India and is exempted from Custom / Excise Duty. Exemption Certificate to this effect will be issued by ARIBAS. **Hence,**

**Customs/Excise Duty exempted price should be quoted.** The rates shall be firm and final.

In case of imported equipment(s)/item(s), the agency commission, if any, payable in Indian rupees should be mentioned separately. For imported equipment, the Letter of Credit will be opened for the amount excluding agency commission in Indian Rupees. The firm should clearly mention the address of foreign bank in the financial bid.

**Validity:**

The bid should be valid for acceptance up to a period of 90 Days. The Bidders should be ready to extend the validity, if required without any additional financial implications.

**Delivery:**

The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within 8 weeks of the issue of purchase order unless otherwise prescribed. If the bidder fails to deliver and place any or all the Equipments or perform the service by the specified date, penalty at the rate of 1% per week of the total order value will be deducted.

**Training:**

Bidders need to provide adequate training to the nominated persons of ARIBAS at their cost. ARIBAS will not bear any training expenditure.

**Warranty Declaration:**

Bidders must give the comprehensive onsite warranty as required from the date of successful installation of Equipment against any manufacturing defects and also give the warranty declaration that

*“everything to be supplied by us hereunder shall be free from all defects and faults in material,workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.”*

Any deviation in the material, and the specifications from the accepted terms is liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction / specifications specified in the order / contract and demonstrate at the their own cost.

**Terms of Payment:**

Payment will be made only after delivery and satisfactory installation, testing, commissioning etc. This must be specified in the tender/quotation.

## Technical specification of High Performance Liquid Chromatography System

### **General Hardware Specifications:**

- The HPLC system should be usable with both organic and aqueous solutions
- Operable pH range should be 1 to 13
- Automated functions like time-controlled instrument auto-startup, auto purge and automatic validation should be available as an option

### **1. Quaternary Gradient Solvent Delivery Unit:**

- It should be a Quaternary Low-Pressure Gradient pump & Parallel Double Plunger.
- The flow rate should be set between 0.001 to 5 ml/min or better
- System pressure range should be at least 6000 psi or above.
- Flow rate accuracy should be  $\pm 1\%$
- Flow rate precision should be less than  $\pm 0.06\%$  RSD
- The concentration accuracy should be below 0.5%
- The Concentration precision below 0.1%
- Degassing unit should have 4 lines or above. Degassing for autosampler rinsing is preferred.

### **2. Degassing Unit**

- Membrane degassing unit for 5 flow lines
- Degassing capacity to less than 1.5 ppm of Oxygen remaining at 1 ml/min
- It must have a leak sensor as safety feature
- Any Error status should be transferrable to the operating software

### **3. Photodiode Array (PDA) UV-Vis Detector**

- The wavelength range should be 190 nm --- 800 nm
- The photo-diode array detector should have 512 elements and an element resolution of 1.2nm/element must be available.
- The detector must have 2 modes of operation using a variable slit: High Resolution mode at a slit width of 1.2nm and a High Sensitivity mode at a slit width of 8nm
- A Semi micro flow cell [2.5  $\mu$ L volume, 5 mm cell path length, 12 MPa pressure max.] with temperature control with should be available as standard
- A Conventional flow cell [12  $\mu$ L volume, 10 mm cell path length, 12 MPa pressure max.] with temperature control should be available as an option
- The flow cells must be temperature controlled from ambient  $\pm 5^\circ\text{C}$  to  $50^\circ\text{C}$
- Wavelength accuracy should be  $\pm 1$  nm
- A deuterium lamp [D2] and a Tungsten lamp [W] should be available as Light Source for UV and visible wavelengths respectively.

- The selection of light source must be flexible to select D2, W or both [D2 +W] the lamps for analysis (3 modes)
- The Drift must be smaller than  $0.5 \times 10^{-3}$  AU/Hour
- The Noise Level must be smaller than  $0.6 \times 10^{-5}$  AU
- Linearity should be equal or more than 2.0AU (ASTM method)
- It should have automatic wavelength accuracy check at 4 wavelengths (UV & Vis) & wavelength correction
- It should have a self-aligning mechanism for the light sources and cell.
- Light sources and cell should be accessible from the front for easy maintenance.
- It must have data buffering function to collect up to 20 min of data for all wavelength regions in case of PC malfunction.

#### 4. **System Controller**

- The controller must be equipped with a big, clear LCD display for control parameters and time programs as well as spectrum display of scanned data and chromatogram display.
- It should store upto 20 analysis files with a total upto 400 steps of time programs
- It must have the capability of data buffering to protect collected chromatography data from PC failure

#### 5. **Data Management System**

- Required computer and laser printer should be provided with the system and UPS: 3 KVA

#### 6. **Chromatography Software**

- It should be capable of controlling HPLC systems and data acquisition of upto 8 channels (2 detectors for each system).
- The monitoring of all the four HPLC systems simultaneously should be possible
- Auto start-up, Auto shut-down, baseline stability auto judgement, Auto validation, Auto purge, etc. must be available from the touch of a button
- Operation of the system should be easy and intuitive via a state-of-the-art Win 2000/ above software
- There should be an on-line help function context sensitive
- Method file capability should include LC analysis parameters, data processing parameters, report format, etc.
- The quantitation software should include, internal standard, external standard, normalization and corrected normalization for accurate and reproducible quantitation
- The calibration curves obtained with weighted regression should be possible
- A multipoint calibration curve calculation using the average value of each concentration should be possible
- The reporting format should be flexible and easy to use in any desired format

- The data should be convertible to other formats. Spread Sheet software and word-processing software should be available to provide data in tables or graphs through industry standard protocols
- Software must have its own log files for complete audit trails
- An audio-visual multi-media CD-ROM for Maintenance and Troubleshooting must be provided
- System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity

## **7. Service, Warranty and Training**

1. The system should be accompanied with Conformity Certificate.
2. Tendered price should include delivery, installation, commissioning and training (at least 4 users) at customer's location.
3. A qualified factory-trained engineer shall conduct on-site installation, commissioning and training.
4. Complete support for equipment for at least a period of 24 months. This shall include the following at no extra cost:
  - 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. Support should be available from Monday to Friday, 8.30am to 5.30pm (excluding Public Holidays), local time.
9. Vendor to provide a copy of Site-Preparation checklist.
10. 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.
11. Vendor must demonstrate that it has a proven appropriate set-up 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.
12. A declaration of Conformity certificate must be provided.
13. A declaration of System Validation certificate must be provided.
14. All modules must be GLP compliant.