



केन्द्रीय औषधीय एवं सगंध पौधा संस्थान, लखनऊ
CENTRAL INSTITUTE OF MEDICINAL & AROMATIC PLANTS
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)

(Council of Scientific & Industrial Research)

पोस्ट आफिस- सीमैप, लखनऊ
P.O. CIMAP Campus, Lucknow-226015

Date: 27.12.2016

Corrigendum

In continuation of our tender for procurement of HPLC PDA System, Gas Chromatographs & Scanning Electron Microscope dated 06.12.2016 and consequent upon the pre bid meetings held on 19.12.2016 & 21.12.2016, the competent authority has approved some modifications in the technical specifications of the tender. The last Date of submission of bids is extended till 16.01.2016, 2.00 PM. The Technical Bid for the above tenders will be opened on 16.01.16, 2.30 PM. For details please visit CIMAP website www.cimap.res.in.

The rest of the terms and conditions of the tender document remains unchanged.

Stores & Purchase Officer



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शुद्धिपत्र

एचपीएलसी पीडीए सिस्टम्स, गैस क्रोमेटोग्राफ एवं स्कैनिंग इलेक्ट्रान माइक्रोस्कोप के क्रय हेतु जारी निविदा दिनांक 06.12.2016 के क्रम में दिनांक 19.12.2016 एवं 21.12.2016 को आयोजित पूर्व बोली बैठक के संदर्भ में सक्षम प्राधिकारी ने तकनीकी विशिष्टताओं में कतिपय संशोधन अनुमोदित किया है। बिड जमा करने की अंतिम तिथि 16.01.16 अपराह्न 2.00 बजे तक होगी। तकनीकी बिड दिनांक 16.01.16 को अपराह्न 2.30 बजे खोली जाएगी। संबंधित विस्तृत विवरण सीमैप की वेबसाइट www.cimap.res.in पर उपलब्ध है।

निविदा की शेष नियम और शर्तें यथावत रहेंगीं।

भंडार एवं क्रय अधिकारी

HPLC-PDA System

Supply, Installation and Commissioning of High Performance Liquid Chromatography System: An Automatic computer controlled High Performance liquid chromatography system equipped with a suitable Quaternary Solvent delivery Pump with Auto sampler, Column Compartment, PDA Detector, capable of working in both Isocratic & gradient operation. It should provide error-free programming of pump parameters including flow rates, operating pressure limits, compressibility compensation, calibration and diagnostics.

Technical Specifications of Different Components of HPLC-PDA System

1. Pump

- Programmable flow rate range: up to 5mL/min or more.
- Max. Operating pressure: 8500 psi or higher
- Flow rate accuracy: $\leq 1\%$ or better
- Flow precision: $< 0.08\%$ RSD or less.
- Configuration: 04 solvents gradient
- Gradient (composition) accuracy/precision: $\pm 0.5\%$ or better
- Gradient profile: 9 or more (Inbuilt or user defined)
- Mixer and all other necessary should be quoted
- Additional accessories such as frit, plunger seal and tubings should also be quoted for the maintenance for next two years
- The pump should have GLP/FDA features compliance like maintenance feedback for continuous tracking of instrument usage with user settable limits and feedback messages.

2. Online Vacuum Degasser.

- Flow lines- 04 or more

3. Auto sampler

- Injection Volume Range: 0.1 to 100 μL .
- Auto sampler carryover: $< 0.005\%$ RSD or less
- Injection accuracy/precision: $\pm 1\%$ or better
- Injection Linearity: < 0.999
- Sample Delivery Precision: 0.30% RSD or better
- Sample temperature : 4 to 40 $^{\circ}\text{C}$ or higher
- Sample processing capacity: min 70 for 1.0/1.5/2.0mL sample vial
- Standard accessories such as samples holding platform/tray, vials, inserts and cap/septa etc. should be provided.

4. Column Oven

- Temp control range: 4 to 65 $^{\circ}\text{C}$ or higher
- Temp precision: $\pm 1.0^{\circ}\text{C}$ or better
- Minimum two or more columns of 250 mmx4.6 mm size with autoswitching should be accommodated.

5. PDA Detector

- Wave length range: 190-800nm
- Accuracy : $\leq \pm 1$ nm or better
- Number of diodes: 512 or higher
- Drift: 1×10^{-3} AU/Hour or less
- Linearity: upto 2AU or higher
- Noise Level: 1.0×10^{-5} AU or low
- Flow cell: 10mm path length, 7 to 15 μ L volume (Analytical) standard); 2.5 μ L- semi-micro (optional)
- Temperature control facility for complete optical unit.

6. Chromatography Software

- Software should be latest, genuine and original with 21 CFR compliance.
- *Safety feature*: Real time response to react the condition i.e. to take action on Fault, Leakage, Stop, Start, wavelength switching, injection etc.
- Data base based Software capable to perform calculations as per ICH and US-FDA method validation

7. Columns and vials

- RP(C18) Analytical Column (250mm x 4.6mm, 5 μ m)- 03 applicable
- RP (C8) Analytical Column (250mm x 4.6mm, 5 μ m)- 01 applicable
- Guard column holder -02
- Guard column cartridge-04each
- Sample vials having inserts (100/200 μ L) with cap, and septa for auto sampler-2000

8. Workstation, Printer and UPS.

- Suitable branded latest computer of latest configuration: min 8GB RAM, 1TB HDD, RWDVD Drive with licensed operating (latest and compatible) and compatible-OS (windows) and MS office software (latest, genuine and licensed); 21" monitor of latest technology.
- Branded color duplex printer-scanner (tank based) of high quality.
- On-line UPS of 3KVA capacity or as per requirement with 60 minutes battery backup at full load (Preferably of UPS/Numeric or any standard brand

9. INSTALLATION, SERVICES & GENERAL CONDITIONS

- All the modules of HPLC like Pump, Detectors should be from same/single manufacturer.
- Necessary tubings and tools must be supplied.
- Supporting document for claim must be submitted for the equipment.
- Warranty: 01 years standard warranty should be provided. Post warranty two years comprehensive all spare required should also be quoted separately. Additional, two year AMC should also be quoted.
- Compliance: Operational and performance qualifications (IQ/OQ/PQ) at the time of installation and instrument performance validation (IPV) in next two year.
- User list: Should provide more number of recent installations of quoted HPLC system
- Onsite training should be provided at installation site i.e. CSIR-CIMAP, Lucknow.
- Bidder should provide all pre-installation requirements of the system.
 - Vendor should have service center/office in Lucknow or northern territory of India.