



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

शुद्धिपत्र

No- 160(2)/2015-क्रय-T42

दिनांक- 09.03.2016

एचपीएलसी पीडीए सिस्टम्स की क्रय हेतु जारी निविदा दिनांक 26.02.2016 के क्रम में दिनांक 07.03.2016 को आयोजित पूर्व बोली बैठक के संदर्भ में सक्षम प्राधिकारी ने तकनीकी विशिष्टताओं में कतिपय संशोधन अनुमोदित किया है। संबंधित विस्तृत विवरण सीमैप की वेबसाइट www.cimap.res.in पर उपलब्ध है।

निविदा की शेष तकनीकी विशिष्टतायें, नियम और शर्तें यथावत रहेंगीं।

भवदीय,

भंडार एवं क्रय अधिकारी



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Corrigendum

No- 160(2)/2015-pur-T42

Date 09.03.2016

In continuation of our tender for procurement of HPLC PDA System dated 26.02.2016 and consequent upon the pre bid meeting held on 07.03.16, the competent authority has approved some modifications in the technical specification of the tender. For details please visit CIMAP website www.cimap.res.in.

The rest of the specifications, terms and conditions of the tender document remain unchanged.

Yours faithfully,

Stores & Purchase Officer

HPLC-PDA System

Supply, Delivery, 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: $\leq 1\%$
- Flow precision: $< 0.08\%$ RSD or less.
- Configuration: 04 solvents gradient
- Gradient (composition) accuracy/precision: $\pm 0.5\%$ or better
- Gradient profile: 10 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 should be accommodated.

5. PDA Detector

- Wave length range: 190-800nm
- Accuracy : $\leq \pm 1\text{nm}$ or better
- Number of diodes: 512/1024
- 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 μL volume (Analytical) standard); 2.5 μL - 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

- C₈ and C₁₈ Analytical Column (250mm x 4.6mm, 5 μm)- 01 each
- C₁₈ Analytical Column (150mm x 4.6mm, 3.5 μm)- 01
- Guard column holder -01
- Guard column cartridge (for C8 and C18)-02each (Total 04)
- Sample vials **having inserts (100/200 μL)** with cap, and septa for auto sampler-1000

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 auto duplex laser printer 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.
- 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.