

**Department of Biochemistry
Jawaharlal Nehru Medical College
Aligarh Muslim University, Aligarh**

Dated: 31-01-2019

**ENQUIRY /QUOTATION CALL FOR QUATERNARY GRADIENT
HPLC**

Please quote your lowest rates of the following item with terms and conditions. Interested firm(s) must submit their enquiry/ quotation in the sealed envelope to the undersigned till 10-2-2018. Full Specifications should be mentioned in the quotation.

SPECIFICATIONS

- 1. Quaternary Gradient Solvent Delivery Unit with Degassing Unit**
 - It should be a Quaternary Low-Pressure Gradient pump & Parallel Double Plunger.
 - Number of solvents delivery should be 4 solvents.
 - The flow rate setting range: 0.0001 to 10 ml/min.
 - Flow rate accuracy : $\pm 1\%$.
 - Flow rate precision should be less than 0.06% RSD
 - Maximum Pressure: 44mpa.
 - The concentration accuracy should be below 0.5% & composition precision below 0.1% RSD.
 - Degassing unit should have 5 flow lines.

- 2. UV- Detector**
 - Light source: Deuterium lamp.
 - The spectrum Band width: 8nm
 - Wavelength range : 190nm to 700nm
 - Wavelength Reproducibility: 0.1nm
 - Sampling Rate: 100 Hz
 - The flow cell must be temperature controlled.
 - Wavelength accuracy must be ± 1 nm maximum
 - Drift should be less than 100×10^{-6} AU/Hour & Noise level should be $\pm 2.5 \times 10^{-6}$ AU
 - Linearity should be equal or more than 2.5AU
 - Flow cell volume 12ul

- 3. Auto-Sample Injector**
 - Injection Method: Total volume sample injection.
 - Injection Volume setting range: 0.1 μ l to 100 μ l.
 - Injection cycle time: Min 14 Sec.

- The Carry over must be below 0.0025%.
- Injection volume accuracy must be below 1% & The injection precision should be less than 0.20% RSD
- Samples for processing: 200 or more

4. Column Oven


- It should be forced-air-circulation type.
- The temperature control range should be -12 to 90°C
- Temperature control precision of 0.1°C
- Temperature stability +/-0.8°C

5. Software

- Operation of the system should be very easy and intuitive via a state-of-the-art 32/64 bit Windows 7 based software
- Software Should be 21 CFR Compliance
- Software must be able to link with Windows Users or Active Directory Users
- It should cover full one-point digital instrument control, qualitative and quantitative processing, report creation and self-diagnosis
- Software must register all events (log files) audit trails for Data, Method, Batch, Report, System Policy and User Administration
- System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity

6. Column – C18 column (2 No.) (250mmx4.6mmx5u)

7. Warranty : 2 years standard warranty + 3 years AMC (Total Five years service)


DR. MOINUDDIN 31.1.2019
 Professor and Chairperson
 CHAIRPERSON
 DEPARTMENT OF BIOCHEMISTRY
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Note:

1. Additional feature(s) / Extended AMC or Offer of CMC would be an advantage.