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: ±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 x 10^-6 AU/Hour & Noise level should be ±2.5 x 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 μl to 100 μl.
   - 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 – C 18 column (2 No.) (250mmx4.6mmx5u)**

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

   ![Signature]
   **DR. MOINUDDIN**
   Professor and Chairperson
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   **31. 1. 2019**

**Note:**

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