OFFICE OF THE DEAN PLANNING AND DEVELOPMENT
NATIONAL INSTITUTE OF TECHNOLOGY: TIRUCHIRAPPALLI - 620 015

Date: 26/12/2013

Tender Notification No.: NITT/F.No:RES005/PLAN2013-14/CST **Dated: 18.12.2014**

With reference to the above tender notification and the pre-bid conference held on 26.12.2013 at 3.00 PM in the office of the Dean, planning and development, the following amendments are made. All other terms and conditions mentioned in the tender document remains same.

Specifications for Ion Exchange-Chromatographic system

Original Tender Specification	Amended Specification
Pumps: Dual piston compatible with aqueous elements of pH 0-14 and reversed phase solvents; Flow rate range: 0 to 5 ml/min (or higher) with flow precision and accuracy of less than 0.1%.; *Pulsation:* Lower than 1%; *Pressure range:* 0 – 5000 psi. **Conductivity Detector:** One number of conductivity detector for analysis of anion and cation, should be microprocessor based with a conductivity block with an accuracy of 0.0010 C. Adjustable temperature of the conductivity block between 20 – 50 °C; *Conductivity measurement range:* 0 – 15000 S/ cm; *Resolution:* 5 pS/cm; *Electronic noise:*< 0.1nS/cm at 1uS/cm level; One set of standard chromatograms should be stored on microchip of the detector block. **ECD detector:** Integrated pulse amperometry modes, Microprocessor controlled digital signal processing, Single and dual electrochemical detection,*Potential Range:* -2.0V to 2.0V in 0.001V increments, *Signal Range:* Digital and Analog, DC amperometry: 5 pA to 74 µA, Integrated amperometry: 50 pC to 200 µC, *Noise:*Au electrode (< 50 pC @ 10 mM KOH) and amperometry (< 10 pA @ catecholamine eluent). **Ion - Exchange columns**with respective guard columns for both cation and anion analysis.**Rheodyne PEEKInjector:** 6 port softwareoperated and motorized. Fully system control chromatography management software compatible with Windows XP or higher versions.The system should be supplied with a branded ***Suppressor:***Resin or membrane based self-regenerating suppressor for the analysis of anions. **PC & printer** having USB high speed communication protocol, preloaded with the software. Installation and commissioning of instrument should be carried out at site.Adequate consumables for 3 years of operations should be quoted along with. **Optional accessories:*Suppressor:***Resin or membrane based self-regenerating suppressorforthe analysis of cations. ***Eluent Generator*** is to be quoted for the on-line preparation of Eluents (KOH & MSA). Spare columns for both anion and cation analysis.	**Pumps:** Dual piston compatible with aqueous elements of pH 0-14 and reversed phase solvents; Flow rate range: 0 to 5 ml/min (or higher) with flow precision and accuracy of less than 0.1%.; *Pulsation:* Lower than 1%; *Pressure range:* 0 – 5000 psi. **Conductivity Detector:** One number of conductivity detector for analysis of anion including silicate, and cation should be microprocessor based with a conductivity block with an accuracy of 0.0010 C. Adjustable temperature of the conductivity block between 20 – 50 °C; *Conductivity measurement range:* 0 – 15000 S/ cm; *Resolution:* 5 pS/cm; *Electronic noise:*< 0.1nS/cm at 1uS/cm level; One set of standard chromatograms should be stored on microchip of the detector block. **ECD detector:** Integrated pulse amperometry modes, Microprocessor controlled digital signal processing, Single and dual electrochemical detection,*Potential Range:* -2.0V to 2.0V in 0.001V increments, *Signal Range:* Digital and Analog, DC amperometry: 5 pA to 74 µA, Integrated amperometry: 50 pC to 200 µC, *Noise:*Au electrode (< 50 pC @ 10 mM KOH) and amperometry (< 10 pA @ catecholamine eluent). **Ion - Exchange columns**with respective guard columns for both cation and anion analysis.**Rheodyne PEEKInjector:** 6 port softwareoperated and motorized. Fully system control chromatography management software compatible with Windows XP or higher versions.The system should be supplied with a branded ***Suppressor:***Packed bed membrane based self-regenerating suppressor for the analysis of anions. **PC & printer** having USB high speed communication protocol, preloaded with the software. Installation and commissioning of instrument should be carried out at site.Adequate consumables for 3 years of operations should be quoted along with. **Optional accessories: *Suppressor:***Packed bed or membrane based self-regenerating suppressor for the analysis of cations (if required). ***Inline Eluent preparation module or Eluent Generator*** is to be quoted for the on-line preparation of Eluents (necessary eluents). Spare columns for both anion and cation analysis.

M. Premalatha

Dr.M.Premalatha
Purchase Initiator