



झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद,

## JHARKHAND STATE POLLUTION CONTROL BOARD

T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004

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Ranchi, Dated 22-07-09

### CORRIGENDUM

In Board's tender notice dated 10-07-2009, the Specification of Titric Ion Chromatograph will be read as follows:

### TITRIC ION CHROMATOGRAPHY SYSTEM

**Application** :Water Analysis system comprising of Auto sampler, Ion Chromatographs ,Titrator, Conductivity Meter for analysis of pH, temperature, conductivity, p and m values. Anions like Fluoride, Chloride, Nitrate, Phosphate, Sulphate etc. and Cations like Sodium, Potassium, Calcium etc.

The system should comprise of the following:

**Ion Chromatograph for Anion Analysis:** Ion Chromatograph consisting of Dual Piston Pump, motorized injector, suppressor, Anion columns and Guard column and Thermo stated Conductivity Cell for Anion analysis like Fluoride. Chloride. Sulfate, Phosphate etc.

**Ion Chromatograph for Cation Analysis:** Ion Chromatograph consisting of Dual Piston Pump. motorized injector, Cation columns and Guard column and Thermo stated Conductivity Cell for Cation analysis like Sodium, Potassium. Calcium etc.

**Auto sampler:** Auto sampler with capacity to have around 80-100 samples. The sampling cups should have provision of caps and the auto sampler should remove the same prior to sample analysis. The auto sampler should be able to provide samples for complete analysis of water parameter as listed above and necessary dosing / diluting / transferring system for providing samples for pH, conductivity, p & m value, anions and cation analysis should be included along with the auto sampler.

**Conductivity Meter:** Conductivity Meter to be supplied along with the system for measuring conductivity of water.

**Auto Titrator for pH ,Temperature, p and m values:**

**Software:** Necessary software to be provided along with the system which can control the entire system from transferring the samples to appropriate equipments. Analyzing the samples and then combining the results from various techniques into one and presenting the same as one single unified result. The software also should be able to predict ionic balance.

**PC:** Latest Branded PC along with Printer should be provided along with the system.

The system should have auto dilution and auto calibration facility. The system should be able to generate the, required calibration range by using a single standard of 200ppb either by dilution or by pre-concentration. The entire set-up provided should be automatic and controlled through the software. The system should have online sample preparation accessory like dialyzer for sample like waste water, effluent etc. and particle into liquid state for air analysis.

**Other Accessories: Latest PC with Printer, Solvent and sample filtration unit with vacuum pump should be included.**

**(R K Sinha)  
Member Secretary**