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**Closing Date: 02-09-2013**

**Ref. No. AK/CESE/2013-14/01**

**Subject: Request for submission of quotation/tender for Type I and Type II water purification system.**

Please send a sealed quotation in duplicate for **Type I and Type II water purification system** for our laboratory at the center for environmental science and engineering (CESE), Indian Institute of Technology Kanpur (IITK) with the specifications and requirements given below. The quotation should include warranty, educational discounts if any and all costs inclusive. The quotation should reach our office at the below mentioned address on or before 02.09.2013.

**TYPE I AND TYPE II WATER PURIFICATION SYSTEM**

**SPECIFICATIONS**

- The system should be rugged to handle rough water conditions having Feed water conductivity upto 2000 microS/cm, Free chlorine- 3 ppm & Fouling Index > 11.

**Pre-filtration unit**

- Pre-filtration unit with 5 micron filter to remove the particulate matter (Physical Contamination) & booster pump for feed pressure should be provided.

**Ist stage system** for laboratory applications (Pure water from Tap water)

The unit should have the following purification stages:

- Pre-filter with anti-scaling & activated carbon for the removal of free chlorine & organics.
- Reverse osmosis stage for removal of ionic & inorganic impurities.
- Conductivity cell present before RO stage to measure the RO feed conductivity & system should be capable of measuring % of rejection for correct monitoring.
- Advanced self regenerating electro-de-ionization module resistant to scaling should be used so that softening cartridge requirement can be avoided for lesser recurring cost.
- Water quality: Flow rate: 3 L/hr, Ions organics removal upto 99%, Resistivity: > 5 Mohm.cm, TOC < 30 ppb.

### **Reservoir**

- PE Reservoir of 50 liter capacity.

### **Ind stage system for analytical applications (Ultra Pure Water From Pure Water)**

- Ultrapure water machine producing water of Resistivity: 18.2 MOhm.cm, Conductivity: 0.055uS/cm, Bacteria: < 0.1cfu/ml, Flow rate: upto 1 liters/min, TOC: < 5 ppb.
- Automatic recirculation feature.
- Volumetric dispensing.
- Company should be present for at-least past 10 years in India.
- Company must have dedicated service engineer for water purification system for after sales service.

An additional Pre- treatment cartridge should be provided Free of cost.

A Routine checkup every three months at no additional cost is mandatory.

Additional one year AMC after expiry of warranty period will be desired.

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