

Indian Institute of Technology Kanpur  
Department of Civil Engineering

Inquiry No- CE/DP/2013-14//01

17 July, 2013

**Sub: Quotation for supply of Type 1 water purification system and accessories as mentioned below.**

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us before July 24, 2013 in the form of a hard copy and soft copy to the address mentioned below. If you have any questions please call Dr. D.Paul at 2596169, email: dpaul@iitk.ac.in.

The prospective suppliers are required to send quotation in two parts in sealed envelopes, as "**Technical Bid**" and "**Financial Bid**". The Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. The two separate and sealed envelopes should be clearly marked appropriately as "Technical Bid" and "Financial Bid".

**Terms and Conditions:**

1. Maximum education discount, if any should be offered
2. Validity of quotation should be at least for 60 days
3. Prices should be on CIF and FOB separately (if imported)
4. Prices should include the installation and training cost
5. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection)
6. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc.
7. Delivery should be made within 9 months.

**Technical Specifications for Water Purification System**

Pre Filtrations Stage: One stage purification step should involve 5 micron filter.  
Analytical Grade Water System:

1. All in one pack containing a combination of technologies to produce ultra pure water directly from tap. This should include two stage filtration processes. The first stage filtration should be of reverse osmosis using reverse osmosis cartridge for the removal of ions, organics, particulates and colloids and the second stage for deionization using mixed bed ion exchange resin for the removal of remaining ions and trace ionic and organic contaminants.
2. Final stage should contains an application specific filter pack.
3. Automatic recirculation when the system is not in use.

4. Preset of fixed volume dispenser.
5. Product resistivity cell should be present.
7. Feed water handling of conductivity up to 2000 microS/cm, Free chlorine up to 3 ppm & Fouling Index up to 12.
8. The system should give the final water quality as:
  - Resistivity: 18.2 MegaOhm cm.
  - Conductivity: 0.055 uS/cm.
  - TOC: < 10 ppb.
  - Bacteria: < 0.1 cfu/ml
  - Flow rate: 0.5 L/min
  - Particulates > 0.22um: < 1 particulate/ml.
9. One extra filter must be included as spare with the purification system.



Dr. D.Paul  
Department of Civil Engineering  
I.I.T. Kanpur PIN 208016