

April 11, 2012

Department of Chemical Engineering

Indian Institute of Technology Delhi,

Hauz Khas, New Delhi-110016

Notice Inviting Quotations (NIQ) for the purchase of a Kjeldahl apparatus for determining nitrogen, ammonium nitrogen

Quotations (separate sealed envelopes of technical and commercial bids kept together in a single sealed outer envelope) are invited for the purchase of a ***“Kjeldahl apparatus for determining nitrogen, ammonium nitrogen”*** as per the specifications given below. The sealed quotations should reach the address given below latest by 5 p.m. (IST) on 27-04-2012 with the superscription ***“Quotation for a Kjeldahl apparatus for determining nitrogen, ammonium nitrogen due on 27-04-2012”***:

**Dr. Anil Kumar Saroha,
Department of Chemical Engineering,
Indian Institute of Technology – Delhi (IIT-Delhi)
Hauz Khas, New Delhi – 110016
E-mail: aksaroha@chemical.iitd.ac.in**

Terms and Conditions:

1. Quotations must be submitted in sealed envelopes. Technical and commercial bids must be put separately in two sealed envelopes and then put together in one sealed envelope. The quotes must reach the following address by 27th April, 2012 latest by 5 p.m.

Dr. Anil Kumar Saroha,
Department of Chemical Engineering,
Indian Institute of Technology – Delhi (IIT-Delhi)
Hauz Khas, New Delhi – 110016
E-mail: aksaroha@chemical.iitd.ac.in
Ph: 011-26591032

1. Price must be quoted FOB New Delhi.
2. Proprietary certificate must be enclosed if applicable.
3. Payment after installation.
4. Validity of quotation should be at least 3 months.

5. Period of delivery should be mentioned.
6. Warranty: 2 years from the date of installation

Remarks:

The Institute reserves the right to accept or reject any all the quotations without assigning any reason thereof.

Dr. Anil Kumar Saroha,
Department of Chemical Engineering,
Indian Institute of Technology – Delhi (IIT-Delhi)
Hauz Khas, New Delhi – 110016
E-mail: [aksaroha@ chemical.iitd.ac.in](mailto:aksaroha@chemical.iitd.ac.in)
Ph.: 011-26591032

Last date of submission: 27-04-2012

Specifications:

1. Automatic distillation unit consisting of automatic alkali addition, dilution water addition, receiver solution addition, tube draining
2. Variable output steam generator
3. Reproducibility: 1 % RSD (including the digestion step)
4. Automatic opening and closing distillation interlocked safety door for protection
5. Positive displacement pumps for reagent addition
6. Distillate temperature monitor
7. Corrosion resistant cabinet
8. Cooling water flow control
9. Provision for upgradation to fully automatic distillation unit with colorimetric titration system
10. Removable drip tray
11. Block digester with a provision for digesting at least 6 samples simultaneously

Temperature range: 100-400⁰C

Temperature setting repeatability: 1⁰C

Temperature display : digital

Over temperature protection