

Central Institute for Cotton Research

Regional Station, Coimbatore: 641003

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F.No.ST-I/1-1/Plan/08-09/

Dated: 4.12.08

Sir,

**Sub: Quotation for the purchase of Ammonium Nitrate Nitrogen Analyzer –
One No. - reg.**

Sealed quotations are invited by the Project Coordinator & Head, Central Institute for Cotton Research, Regional Station, Coimbatore-3 for the purchase of **Ammonium Nitrate Nitrogen Analyzer– One No** as per the specifications, terms and conditions prescribed below:

A. Automatic Microprocessor based Macro Block Digestion System

1. Microprocessor Based Aluminium Digestion Block for 4 samples of 250ml. Vol.
2. Temperature Controller: Micro Processor based PID Controller
3. Temperature Control Range: 50-450 ° C
4. Temperature Indication: Digital
5. Temperature Setting: Feather Touch membrane Switches
6. Auto Tuning facility of Temperature Controller
7. Automatic safety features like over temperature protection
8. Auto Error Indication and sensor Break Protection
9. Temperature Accuracy : + 1.0°C
10. Heaters : Casted Aluminium Alloy Heaters
11. Power : 1000W
12. Digestion Tubes (Macro) 250 ml vol -8 Nos., Tube Dimension: 300 X 42mm
13. Stainless Steel Insert Rack to hold digestion tubes
14. Cooling Stand to keep the Insert Rack after digestion
15. Exhaust Manifold System with teflon adoptors fitted on to a stainless steel rack (Chemical and heat resistant)
16. E.M. Stand to keep the exhaust manifold system after digestion
17. Electrical Requirement: 220V/50Hz Ac mains.

B. Automatic Microprocessor based Nitrogen Distillation System

1. Microprocessor based feather touch membrane switches
2. Auto Alkali Addition - Programmable - 5-35 ml
3. Manual Addition – Continuous, Perilstatic pump with Spring loaded rotor and anticorrosive pump head for Alkali addition
4. Distillation time: - Programmable - (3-21 minutes)
5. Distillation Capacity: 12-20 samples per hour
6. Nitrogen Recovery : 99.5 to 100%
7. Stainless Steel Steam Generator with water level view window
8. Auto electronic microswitch controller for water level sensing coupled to balancing mechanism
9. Auto Ready signal for steam processing
10. Heater Power : 1500 W
11. Individual water line for condenser & Steam Generator

12. Distilled water automatically drawn from Storage reservoir through inbuilt centrifugal pump
13. Automatic low water level Acoustic Alarm & Auto water refilling indication,
14. Electrical Components rack mounted and isolated from alkali and water carrying parts Inlet water Pressure: 2 Bar, Electrical requirement - 220 V/50 Hz

Terms & Conditions:

1. The price should be inclusive of all taxes/VAT
2. Sealed quotation along with the literature and pamphlets should reach this office on or before **20.12.08**
3. Amount should be quoted in Indian Rupees
4. As the equipment/Instrument is urgently needed for our research work, the firms who will be able to make immediate supply to **Central Institute for Cotton Research, Regional Station, Coimbatore – 3** should quote.
5. Envelops may please be super scribed with the word **“Quotation for Ammonium Nitrate Nitrogen Analyzer”**
6. Instruments/Equipment will be purchased from only those parties, who can ensure and undertake to provide the satisfactory after-sales-service within the country. The supplier should also ensure to offer a complete detailed package on back up support, prompt commissioning, after-sales-service including workshop backup, timely supply of spares, timely repair of equipments, proper training to Scientists/Technicians on use.
7. Guarantee/Warranty period offered and after sales service available should be clearly mentioned.
8. The make, quality and specifications may be stated in detail/must be as per details given by this office.
9. **In case supply is not made within a fixed period the office reserves the right to cancel the order.**
10. **The payment will be made only after completing delivery according to the specifications, quality and quantity given in the quotation/purchase order with in 30 days.**
11. Other terms and conditions of supply if any may also be stated.
12. Materials will be accepted only after giving satisfactory demonstrations.
13. The Project Coordinator & Head, CICR reserves the right to accept or reject one or all quotation/s without assigning any reason thereof.
14. The quotations, without the above desired information/received after the due date are liable to be rejected.

Project Coordinator & Head