

**QUOTATION NOTICE**

Sealed quotations are invited from the eligible firms for the supply and installation of **Nitrogen Distillation System** in the Dept. of Environmental Sciences, University of Kerala, Kariavattom Campus.

**Technical Specifications for Nitrogen Distillation System**

1. Auto sequencing Programmable Microprocessor based Distillation with inbuilt software, with LCD /TFT Display,
2. Auto Intelligent run of programmable steps Receiver, Addition of Dilution, Alkali Addition, Steam Processing Process over indication with inbuilt delay time features, Auto Titration Connectivity feature for future up gradation, Complete Automatic safety features.
3. Facility to Microprocessor program and control distillate volume for determination of available nitrogen
4. Auto sensing of “NO WATER” condition in condenser & steam generator with alarm & signal to alert user.
5. Auto deactivation of operation after warning in case of user non availability
6. Enables automatic monitoring and measuring of high temperature in Distillate
7. Auto Water level monitoring, Auto reagent Level Sensor, Stainless steel non corrosive steam Generator
8. The control panel unit along with inbuilt temperature controller, timer, mother board and SMPS should be isolated in separate compartment to protect electronics from wet chemistry & acid/ alkali process area for longevity and safety of all electronic components.
9. Nitrogen level: 0.1 to 200 mg Nitrogen (Min / Max Detection Limit)
10. Nitrogen Reproducibility:  $\pm 0.1\%$  RSD, Nitrogen Recovery  $\geq 99.5\%$
11. Suitable for Four Sample Insert Rack microprocessor based digestion system
11. Electrical Requirement: 220-230V single phase 50Hz A.C.
12. Certification ISO 9000:2015, preferably & CE certification

## **Conditions**

1. The rate quoted should be inclusive of Tax, transportation charges and any other charges.

**Note:** The University Issue Essentiality Certificate, so tax should be quoted Accordingly.

2. Complaints with the items supplied should be rectified /replaced to the satisfaction of the University by the suppliers at their own cost.
3. Payment will be made only after the supply of the items at our own site.
4. The undersigned reserves the right to reject /accept any quotation without assigning any reason.
5. The equipment should be installed in the Department of Environmental Sciences, University of Kerala.

The sealed quotations should reach **'The Professor and Head, Department of Environmental Sciences, University of Kerala, Kariavattom Campus P.O. Thiruvananthapuram-695 581, Kerala** on or before **24/02/2020** at **3.00 p.m.**

**Sd/-**  
**Head of the Department**  
**Department of Environmental Sciences**