

PONDICHERY UNIVERSITY
SCHOOL OF LIFE SCIENCES
DEPARTMENT OF BIOCHEMISTRY & MOLECULAR BIOLOGY
Microbiology Programme
PUDUCHERRY-605 014

Sub: Call for Quotation/Proforma Invoice for Automatic Cabinet Water Still (All Quartz Double Distillation) System

Sealed quotations are invited for the purchase of for Automatic Cabinet Water Still (All Quartz Double Distillation) System according to University Tendering procedures as per the specifications given below. Last date for receipt of the quotations in the Office of Dr. K. Jeevaratnam, Coordinator (Microbiology) Department of Biochemistry & Molecular Biology on or before **10.01.2012**

Detailed Specification

Automatic – Cabinet water Still (All Quartz Double distillation) System

Automatic Cabinet Water still (all Quartz Double distillation) System for trouble free distillation in the laboratory to provide Ultra high purity water for demanding applications in the laboratory/tissue culture work. The still should incorporate all electrical safety standards IEC 61010.

Features:

- **Flow control safety** – enabling to use Distil – on under low pressure sources.
- **A Gate Valve** – to prevent wastage of cooling water in the event of power failure.
- **Level Sensor** – A level Sensor for the safety of Boiler, in the event of no water in the Boiler.
- **Reservoir Level Sensor** – Incorporated for automatic operation of the Still. Internal connections to the condensers are made with screw threaded connectors. Specific conductivity :0.1-0.5 $\mu\text{s}/\text{Cm}$.
- Inbuilt Demineraliser/Reverse Osmosis Plant required to safe guard the distiller and ensure good quality of distill water and long life of the equipment of TDS 0-5ppm.
- ❖ Reverse Osmosis required reducing total dissolved solids in raw water up to 98%, RO and capable of handling all grades of hard water up to a TDS1000ppm.
- ❖ Demineraliser (DM Plant) consisting of two Colum Charged with high exchange capacity Cation and Anion Resin to give the treated water quality less than 10 $\mu\text{s}/\text{cm}$.

RO based unit to have an overhead tank (about 10 L capacity) provided within the unit and it has a water level controller, when the tank is full it will be switched off automatically. The flow rate is 20Litre/hour. Due to gravity, the water goes through the DM and demineralized water is now available for distillation or for the lab use with conductivity less than 10 $\mu\text{s}/\text{cm}$.

Warranty: 3 years