CALL FOR QUOTATION.

Sealed quotations are invited for the following equipments, with the specifications given, in the Department of Biotechnology, University of Kerala, Kariavattom, Thiruvananthapuram.

1. **Refrigerated Thermostatic Recirculating chillers**-

   Table Top Model and Compact, with inbuilt high efficiency pump for water circulation- 310 mbar pressure,

   Stainless body with lid / polystat chillers , Cooling and heating controls with LCD display, with temperature range -20°C to 100°C with cut off controls, cooling capacity at -20°C- 320 W, Capacity – 5 to 7 L,

2. **Vacuum Rotary evaporator with the following essential specifications.**

   Automatic Motor lift operation, speed of height adjustments – 30mm/s with height adjustments 150 -155 mm, with LCD graphic display,

   Rotation speed, 20-280 rpm, temperature range in the heating bath -20°C - 210°C with an accuracy of +/- 0.5°C, Over heat cut off protection 5°C above the set temperature,

   All display in LCD digital form, Drive with Brushless DC motor with electronic speed control,

   Universal heating bath -Diameter of the heating bath 255 mm and volume 4.5 l, with vapor temperature display and Vapor temperature sensor, integrated vacuum controller, Timer, Vacuum Programme set pressure, with remote control functions – start, Rotation, start vacuum,

   With a vacuum pump having 2 gear diaphragm vacuum pump made of chemically resistant material, working with all types of solvents, with vacuum manual operations or vacuum controllers. Suction capacity 0.75 cubic meter/hr, getting an ultimate vacuum of 12mbar, With protection class – IP 20
3. HPTLC specifications

Components available needed are: Linomat 5 for sample application, AMD2 for automated multiple development, twin trough tanks of different sizes for manual single solvent developments, HPTLC vario system for method development, TLC Scanner 3 for detection, TLC/HPTLC documentation system with digital camera, Reprostar TLC/HPTLC viewing box with UV system, TLC plate heater, TLC plate coater, dip tanks, dedicated computer with winCATS Planar Chromatography System Manager.

4. A snow maker / Ice Flakes Machine (not ice cubes)

Table top with compact design, taking less space, 24 hr: 90 Kg.

Bin Capacity 20 Kg., Water consumption- 3 L / Hr.

5. Microscope-Eyepiece digital image capture device-

A digital image capture system to attaché with Microscope and transferring the image to computer with USB data transfer cable along with appropriate working software for image transfer and analysis.

6. A Vertical autoclave / Pressure steam sterilizer-

Stainless steel, Non automatic, volume 50 L / 75L, with all safety measures, indication for on-off conditions, pressure indicators, safety valve, Power- 220v, Temperature- 120-135 C.

7. Peristaltic Tubing – Pump System -

Precision digital drive, maintenance-free high-accuracy motor with a graphical interface,

Flow rate 0.001 to 3400 mL/min with L/S tubing. Digital variable speed,

Graphical LCD display for four operating modes continuous run, timed dispense, copy dispense, volume dispense. View pump performance continually. Power (Amps) - 2.2 at 115 VAC 1.1 at 230 VAC,
Dispense by mL—volume in mL of each dispense, 0.001 to 9999 mL; Copy—1 to 9,999 dispense cycles; or SEC—time interval between each dispense cycle (1 sec to 99 hr, 59 min, 59 sec)

Antidrip function ensures dispensing accuracy,

Motor- Brushless, maintenance-free motor with ±0.1% speed control accuracy with a 6000 to 1 turndown ratio, reversible

The quotations addressed to The Head, Department of Biotechnology, University of Kerala, should reach before 30th September 2014.