



University of Calcutta Quotation Notice

Ref. No .RK/BOT/WBDBT-EQUIP-2/18

Dated.22/05/2018

Quotations for the following items are invited from authorized parties for supplying the following items. Suppliers are hereby requested to submit quotations for the items including the current Trade License, Service Tax Registration Certificate, PAN No., Copy of Registration Certificate with Statutory Authorities and other credentials within 10 days from the publication of this notice in a sealed envelope addressed to the undersigned. The authority reserves the right to accept/reject any quotation without showing any reason thereof.

Technical specifications for Incubator with Shaker, Horizontal Laminar Airflow, Plant Growth Chamber

1. Incubator with Shaker Size : 4 cft. (80 Ltrs. Approx)

Incubator with a built in orbital shaker, capacity 16x 18x 22” (inch), Controlled by PID controller ,temperature range : **Ambient plus 5°C** to 60°C, temperature accuracy $\pm 0.5^\circ$ C, shaker speed 40 to 200 RPM, chamber is **made of stainless steel with glass door**, shaker platform size : 12”x12” arrangement along with different volume of flasks in one Platform. **Outer wall of the chamber should made up of corrosion resistant material with powder coated paint finish.**

Technical Specification :

- Temp. Range : **Ambient plus 5°C to 60°C**
- Temp. Accuracy : $\pm 0.5^\circ$ C at 37° C
- Control : Microprocessor based PID control
- Speed Range : 40 rpm to 200 rpm
- Speed Control : Controlled by Variac
- Time Range : Infinity or upto 48 hrs
- Construction : Inner made of S.S & outer made of M.S.
- Chamber material : Stainless Steel inner
- No. of Shelves : 1 Platform + 1 Shelve
- Power : 220V, 50/60 Hz

2. **Horizontal Laminar Air flow –**

- High Quality and Durability
- Flow Type : **Horizontal Flow**
- Working Area : **2' X 2' X 2'**
- **Filter:** **HEPA**(particle retention 0.3 μ)
- Satin finish Stainless Steel Table Top
- Transparent Front Shutter door,
- Static pressure Inclined Monometer,
- Built in U.V. Germicidal Light,
- Tube Light
- Blower Motor
- Gas Cock,
- Air of Vacuum Line
- With caster wheels
- Power :- 220/230 volts, single phase, A.C. main only.

3. **Plant Growth Chamber**

- Storage compartment
- 24-hr. timer & Temperature programming for lighting and temperature
- Temperature control: 5° to 55°C (10° to 55°C with lights on)
- Inner S.S & Outer MS
- Door key lock
- Main power switch, lamp switch, heater output, fan, thermostat and programmer switches feature on/off indicator lights
- Removable front control panel
- Day and night thermostats have a selector switch for automatic operation
- Adjustable Hi-Lo thermostat provides temperature back-up to safeguard samples
- LED display showing accurate temperature readings
- Four 20w adjustable fluorescent lamps or LED lamps plus two fixed 25w incandescent lamps provide more than 1000fc of illumination
- Interior-reflective door glass
- Humidity Creation Through sophisticated steam injection process
- Humidity range 5% above ambient from 40% to 95%RH at cool Temperature accuracy $\pm 5\%$ RH
 - With caster wheels

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