

Indian Institute of Technology

Date: 16-01-2012

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 Closing Date: 23-01-2012

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Subject: Request for submission of quotation/tender for Horizontal Sterilizing Unit

Please send a sealed quotation in duplicate for **Horizontal Sterilizing Unit** for our laboratory at the Department of Biological Sciences and Bioengineering (BSBE), Indian Institute of Technology Kanpur (IIT K) with specification and requirement as given below. The quotations should include taxes, warranty, educational discounts if any, freight and delivery. The quotation should reach our office at below mentioned address on or before **23.01.2012.**

HORIZONTAL STERILIZING UNIT

SPECIFICATIONS

Size : 950 x 1800 mm

Inner Chamber : SS 316 Steam Jacket : SS 304

Working pressure : $1.2 \text{ kg} / \text{cm}^2$

Working Temperature : 121 °C

Door : Single door with Radial locking system

Mode of control : With a multi port valve

Pre-vacuum and

post vacuum : To eliminate air packs and ensure effective

sterilization.

Water protection : In the event of low water the supply to the

heaters should be discontinued automatically and

visually indicated in the control panel.

Pressure switch : An automatic pressure switch adjustable type

Should be provided to set the required pressure.

Vacuum drying : An effective vacuum drying should be caused with

powerful ejector and vacuum breaker which draws air from the atmosphere. It is filtered, pre-heated and finally enter the working chamber

for effective drying.

Water Gauge glass : To note down the level of water glass tube with

gauge is provided.

Certification : ISI Marked IS 3829 part 1. Construction : Triple walled Stainless steel.

Door : Made of thick gauge single SS sheet with Back

Plate and Ring also made of Thick SS Sheet

Supply Voltage : 440 volts – 3 phase.

Should be supplied with Safety Valve, Vacuum Breaker, Non Return Valve, Steam Trap, Water inlet and Water outlet Valves, Dial Thermometer, plug screen to prevent discharge line from chocking,

Presterilization unit:

Single lever lock for lid with single hand opening and silicon Gasket.

Microprocessor based controller for setting sterilization time, cycle time and sterilization temperature, purge temperature etc.

Outer rectangular design for convenient placement in corner.

Inner Chamber, lid and all wetted parts should be of stainless steel.

Castors for easy movement. Suitable to operate on 230VAC 50 Hz.

Flexible sensor for in-situ control and cycle monitoring.

Should be supplied with low water level cut off, spring loaded safety valve, Pressure interlock, audio & Visual alarm for low water level and sensor open, MCB for electrical safety, independent over temp. safety cut out.

Size: 30 x 50 cms with 25 x 45 cms SS wire mesh carrier.

Certification: CE.

- Warranty: One –two years from the date of installation
- **Installation and demonstration**: Free of charge at the site of use.
- **Proprietary,** authorization/distribution, instrument brochures and any other relevant documentation should be submitted along with the quotation.

Dr. Ashok Kumar

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