

**CENTRE FOR BIOMEDICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY-DELHI
HAUZ KHAS, NEW DELHI-110 016**

Dated: 05.01.2015

Notice Inviting Quotations

Sealed quotations in separate envelope of technical and commercial bid kept in one sealed outer envelope, are invited for **Water Jacketed CO2 Incubator** as per specifications given below. Your sealed quotation should reach within 21 days from the date of advertisement to, **Dr. Neetu Singh, Block II-388, Centre for Biomedical Engineering, Indian Institute of Technology, Delhi (IIT Delhi), Hauz Khas, New Delhi-110016**. Your quotation must be super-scribed "**Water Jacketed CO2 Incubator**".

TECHNICAL SPECIFICATIONS
WATER JACKETED CO2 INCUBATOR

1. Interior volume should be approx 180-190 Liter
2. Should have microprocessor controlled monitoring system with displays for temperature, CO₂ and alphanumeric service/status message center.
3. Interior and shelves should be of polished Stainless steel type 304 and supports should be able to be removed without tools.
4. Equipment should have round chamber corners to eliminates the cracks and crevices that are difficult to clean and harbor contamination.
5. Outer door should be of Non-CFC insulated foam and door should be able to be installed at either of front sides by lab staff.
6. Inner Door gasket should be of silicon and should be removable and cleanable.
7. Equipment should have water jacketed Triple wall Construction.
8. Should have class 100 HEPA Filtered air flow system for continuous filtration of entire chamber volume every minute to provide an aseptic culturing atmosphere.
9. Circulation fan should be provided for uniform temperature, gas exchange and humidity conditions from top to bottom and side to side inside the incubator.
10. Temperature control should be from 5°C above ambient to 55°C.
11. Co₂ sensor type should be of TCD and CO₂ Sensors should be placed inside the chamber.
12. Temperature uniformity should be atleast ± 0.20 C, CO₂ range- 0 -20%, CO₂ accuracy: $\pm 0.1\%$ & CO₂ recovery should be atleast 5% in less than 3 minutes
13. Equipment should have dual Temperature Probes for better temp monitoring.
14. Equipment should have heated dual inner glass door for quicker recovery to uniform temperature after door openings and to minimize condensation on the glass.
15. Equipment should have microbiological filters on all gas inlets and outlets and sample ports to reduce contamination.
16. Should have programmable tracking alarms for temperature and CO₂.
17. Equipment should have option for built in Volatile organic compound filtration system to remove potential toxic chemicals.
18. Equipment should be UL listed, CSA certified, and CE marked

Terms & Conditions:

1. The quotations must have validity of at least four months.
2. Sealed quotations should be in separate envelopes of technical and commercial bid kept in one sealed outer envelope.
3. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight and delivery charges.
4. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
5. Detailed Brochures should accompany the offer.
6. If the bidder is an authorized dealer then the authorized Indian dealership certificate from the principles should be enclosed.
7. Two year comprehensive warranty.
8. Mode of payment as per institution rules.
9. In case the items are proprietary products of the company, a proprietary item certificate stating the same must be provided.
10. Institute reserves the right to accept or reject any or all the quotations without assigning reasons thereof.
11. Details of User List with phone number and email ID should be provided.