



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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SUPPLY AND INSTALLATION OF DIFFERENT TYPES OF MEDICAL EQUIPMENT IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-464/2023

Dated – 09.08.2023

The following amendment have been made in the tender document,

Amendment –I (Revision of Technical Specification)

The revised technical specifications for the item is given below,

CO₂ Incubator

1. One chamber CO₂ Incubator with work chamber volume approx.150 liters.
2. Air jacketted heating system with temp. Control by microprocessor.
3. Temp. Range from ambient **+5°C to + 50°C**
4. Temp. Deviation with respect to time is $\pm 0.1K$.
5. CO₂ control by Microprocessor based & by heat resistant Thermal Conductivity **/ IR detector** to withstand heat of decontamination.
6. CO₂ range 0 to 20% or better and CO₂ accuracy ± 0.1 % by volume.
7. System should have Interactive Control with Touch screen.
8. Fast Recovery time for Temp. , CO₂ and Humidity should be available for good culture growth. Temp. Recovery time at 37°C: less than 10 min. CO₂ recovery time 5% CO₂ : less than 5 min. Humidity recovery at 95% rH (Humidity loss during door opening 30 seconds) : not more than 20 minutes.
9. **System should have built-in automatic decontamination facility to remove bacteria, fungi, spores, mycoplasma etc. without removing sensor, fan or any other fitting. The system should employ automatic decontamination routine at dry heat of 180 deg C.**
10. At least 3 nos. stainless steel perforated shelves should be supplied.
11. It should be supplied with access port to allow any cable, plug or tubing to be easily inserted into or out of the chamber.

12. Interior chamber should be made of stainless steel with electro polish finish to have highest quality of inner surface with rounded corners on all sides for easy cleaning. The shelves and fan impeller also should be made of stainless steel and should not have nuts or bolts for shelf supports to reduce the scope of growth of contamination. No plastic should be inside to avoid VOC.
13. Built-in audible and visual water level alarm should be available when the water reservoir needs to be refilled to ensure a constant high level of humidity and to prevent cultures from drying out.
14. Independent electronic over temp. Protection with separate sensor should be available for sample protection.
15. The system should have large digital display for both temp. & CO2 simultaneously.
16. System should have one main door and three separate glass doors for three shelves.
17. Suitable for 230V, single phase 50Hz operation.
18. Suitable servo voltage stabilizer with high voltage low voltage cut off circuit, auto reset with delay timer and spike eliminator etc. & Double stage CO2 pressure regulator with stainless steel diaphragm & 18Kg CO2 Cylinder filled with CO2 gas 99.5% or better purity required for operation of CO2 Incubator should also be quoted.
19. Product Certification: European CE (4 digit notify body)/ European Conformity for quoted model / US FDA/ BIS / CDSCO