



## Notice Inviting e-Tender

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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-557/2023**

**Dated – 13.09.2023**

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,

#### **Type II Biosafety Cabinet**

1. The biological safety cabinet should be of Class II designed in compliance with International standards.
2. It must utilize DC / AC motor technology to ensure lower levels of energy consumption and heat emission.
3. It should have dual blower for independent control for inflow & down flow velocities.
4. The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.
5. The interior dimensions (approx): (wxhxd) 1200x780x495 mm
6. Air flow direction: Vertical Laminar Flow & Air intake across front opening.
7. Filter: High performance particle air filter (HEP A), filtering efficiency 99.999% at 0.3 micron particle size.
8. Pressure sensor should be in-built for exact airflow measurement.
9. Performance monitor displays inflow/down flow velocities, hours of use etc. to verify proper cabinet operation.
10. The UV light must be quoted which should be programmable to shut off automatically. The settings must allow the user to program the timer in one hour increments, from 0 to 24 hours.
11. The overall cabinet height should not be higher than 220cm to ensure proper airflow clearances over the biosafety cabinet.

12. The front window sash must be angled 8° to 10° to reduce glare for users who wear glasses and allow for more comfortable posture for users.
13. The cabinet noise level must be less than 55 dB(A) as measured in a sound proof room. To promote more comfortable and safer working habits of the user.
14. The microprocessor controller must be located on a slanted front panel so it is easy to see from a seated working position in front of the cabinet.
15. The microprocessor must display the inflow and down flow air velocities in real-time on an LED display to ensure the user knows whether or not the cabinet is working under safe operating conditions.
16. The microprocessor must display the number of hours of use on the HEPA filters to ensure user knows when to replace the HEP A filters to achieve safe working conditions.
17. The interior of the front window must be accessible for cleaning without requiring the user to manually hold the window.
18. The drain pan beneath the work surface must be negatively pressurized to ensure that any contaminants are quickly trapped and pushed into the HEP A filters.
19. Arm rest should be provided for operator's comfort without disturbing the Air Flow.
20. The Work Area should be illuminated with switchable fluorescent lamp of lighting power greater than 1200 lx.
21. It should be quoted with Floor stand.
22. Service tap for combustible gas with safety valve should be quoted optionally.
23. Electrical supply available: 230V A.C, single phase, 50 Hz.
24. Prompt & efficient after sales service should be available from Kolkata.
25. Set of castors.
26. Product Certification: European CE (4 digit notify body)/ European Conformity for quoted model / US FDA/ BIS / CDSCO