

Department of Bacteriology

Technical Specifications for Biosafety cabinet Class II A 2

S.No	Technical specification	Complied (yes or No)	If compliance given, mention the page no. of your technical document where the details are provided
1	<p>Biosafety Cabinet should have a 4ft Work cabinet with the following Dimensions Exterior dimensions WxHxD, mm 1300 x 1568 x 800 Interior dimensions WxHxD, mm 1200 x 780 x 630</p>		
2	<p>Biosafety Cabinet Should be <u>independently tested and certified by NSF to meet NSF/ANSI 49 Standard</u></p>		
3	<p>Biosafety Cabinet should have Smart Clean Window Design. It should reduce risk of sample contamination, window design easily lowers for thorough cleaning of the window's inner surface. This unique design protects the operator by maintaining inflow even when the window is lowered.</p>		
4	<p>Biosafety Cabinet for Easy Servicing. It should have a Fan control and power supply that can be replaced independently of the DC motor with no need for disruptive decontamination of the cabinet. All cabinet components, including HEPA filters, are easily accessible from the front to allow for rapid service and minimal work disruption. The Smart Clean window design simplifies access to the down flow filter during annual certification.</p>		

5	<p>Biosafety Cabinet should have Exceptional Safety. It should have Smooth components that are used throughout the cabinet, virtually eliminating the risk of injury during routine cleaning, servicing and maintenance procedures.</p>		
6	<p>Biosafety Cabinet should have Worry-free Decontamination The easy to use, UV light should be programmable from 30 minutes to 24 hours in 30-minute increments, extending bulb life and saving energy.</p>		
7	<p>Biosafety Cabinet should be Fumigation-Ready The easy to install, HPA-validated fumigation accessory, allows the cabinet to be fumigation-ready in just minutes.</p>		
8	<p>Biosafety Cabinet should have Smart Flow technology which maintains a safe working environment. It Should employ a unique airflow system that raises safety and containment to a new level. Independent supply and exhaust blowers automate balancing of down flow and inflow/exhaust velocities to ensure continuous safe working conditions. The smart DC motors monitor and control fan speed in real-time to maintain user protection at the access opening, even as the filters load or the line voltage fluctuates</p>		
9	<p>Biosafety Cabinet should have Digital Airflow Verification which validates product and personnel protection. The Independent pressure sensors detect changes in pressure across the exhaust and down flow plenums. An alarm signals when changes in inflow/exhaust or down flow occur to alert the user if safety is compromised. Airflow velocities are displayed</p>		

	on the control panel for monitoring and recording.		
10	Biosafety Cabinet should have Night-set-back mode which saves energy while maintaining a clean work area. When the front sash is closed, our intelligent speed control automatically reduces blower speed to 30%, extending HEPA filter life and ensuring a sterile working environment even when the cabinet is not in use. This reduced flow mode uses <40W (1.2 m cabinet) to operate, and is >75% more energy efficient than similar features on other biological safety cabinets.		
11	Biosafety Cabinet should have Easy-to-Access Control Panel and Performance Data. The large control panel displays valuable safety and performance data, and is within easy view and reach from a seated position. The intuitive interface delivers a constant read-out of down flow and inflow velocities and overall cabinet performance status		
12	Appropriate double booster Servo stabilizer to be provided		
13	Warranty: standard warranty of one year, CAMC for 2 nd and 3 rd year and AMC for the 4 th year.		
14	Utilities of combustible gas valve has to be provided		
15	Appropriate Thimble ducting with exhaust housing to be provided		