

RAJASTHAN MEDICAL SERVICES CORPORATION LTD.

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No. F-8() RMSC/EPM/M-1/NIB-581/2020-21/ \ \ 00

Dated: 21

CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: Amendments in technical specification and revised bid schedule of bid document of Item Biological Safety Cabinet Based on Class II Type A-2, under No. F-8() RMSC/EPM/M-1/2020-21/NIB-581/537 date: 26.03.2021

Revised Technical Specifications for Biosafety Cabinet (Class A2)

- The Bio safety cabinet should be Type A2 in which 70% Air should be re-circulated and 30% of the air should be exhausted.
- The BSC must include two DC motors. High power consuming AC 2. motors should not be used.
- The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments. 3.
- In order to preserve safety to the user and the environment, the exhaust blower on the cabinet must continue operating when the supply blower stops working. If the exhaust 4. blower should fail, the supply filter will also be turned off.
- In order to ensure consistent and reliable down flow velocity across the supply HEPA filter over the life of the cabinet, the cabinet must use a pressure sensor (rather than 5. anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow. The pressure sensor must be encased in order to protect the sensor from temperature, humidity and other environmental phenomena that can impact the sensor's performance.
- The front window must be a 10" sash opening and be made of laminated safety glass to ensure containment of potentially hazardous samples in the case of accidental glass 6.
- All interior and exterior parts must be S.S. or M.S Powder coated and smooth to ensure no risk of cuts to users or maintenance 7.
- The front of the cabinet must be angled 5° to 10° or more to help minimize glare on the window to the user, and to ensure that the 8. user's posture is comfortable during a working session. Inadequate user ergonomics in a safety cabinet may lead to excessive fatigue, unsafe working habits and harmful consequences to user safety or product contamination.
- The cabinet noise level must be less than 63 dB(A) for a 4 foot cabinet 9. as measured in a sound proof room 12 inches in front of the cabinet and 15 inches above the work surface. Lower noise levels promote more comfortable and safer working habits of the user. For the noise level, NABL test report from NABL accredited laboratory shall be submit along with technical bid.
- The BSC should have microprocessor controller and same must be 10. located on a slanted front panel so it is easy to see and reach from a seated working position in front of the cabinet.
- The interior of the front window must be accessible for cleaning without requiring the 11. user remove or support the window.
- The BSC must be capable of achieving current state-of-the-art in 12. energy efficiency. With lights on and fan at operating speed, it should





consume less than 200 watts for a nominal four foot width and have a reduced energy mode for non-operational maintenance in the work

The cabinet must automatically reduce fan/blower motor speed to 13. 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use.

In order to provide maximum effectiveness, efficiency and safety to 14. laboratory Personnel, UV light must be programmable to allow for specific exposure times from 0to 24 hours. The automatic shut off feature on the UV light saves money on replacement of the bulbs.

The Cabinet should have provision to fit taps for Vacuum, Water and 15. Non Combustible Gas Taps should be quoted as optional items

The BSC should be NSF certified with listing on NSF website 16.

The Biosafety cabinet should incorporate HEPA filter of the class H 14 EN 1822 or better and having minimum efficiency of 99.995% at 0.3 17. um particle size.

Approximate Dimension (in mm) Exterior 1500 H x 1300 W x 800 D; Interior 800 H x 1200 W x 500 D 18.

Ventilation System Exhaust and Inflow air volume approx 300-350 19.

Heat Emissions at 25°C should be approx 0.2 KW or lesser. 20.

The cabinet should be provided with Microprocessor controller and large LED/LCD display of 3 inch or more for inflow and Down flow 21. air velocity and hours of operation, Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.

The BSC must incorporate an Indicator to indicate filter loading and 22. should provide visual and audible alarm to indicate excessive HEPA filters loading which can result in unsafe airflows deviation from the NSF recommended inflow and down flows air velocity values measured in meters per second or foot per minute.

The cabinet should be provided with fixed / adjustable Height Stand, 23. UV Light and one set of detachable arms rest and one / two electrical outlet.

The Drain Pan of the BSC should be made of Stainless Steel. 24.

The BSC should have dual side wall with negatively pressurized interstitial space. BSC with single glass side walls should not be 25.

Machine should supply with 5feet external ducting & virus burnout unit. The ducting and burnout unit shall be installed free 26. of cost as per consignee requirement. The per feet price of ducting shall submit in bid.

System should be validated at time of installation& every 6 months 27. during warranty & CAMC.

Suitable UPS with half hour battery backup to the firm and 28. maintained in guarantee of CAMC.

Warranty: 3 years 29.

CAMC: CAMC shall be given @5% of net rate excluding GST (as 30. applicable). CAMC may be given for five years (on yearly basis) after warranty period of three years

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Revised Bid Schdeule--

E-bids are invited as per following revised time schedule:-

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Existing Dates					Last date	Last date	Date & time
Last date & time for sale of bid form	Last date & time of receipt of bid form	Last date of submission of bid		Last date & time for sale of bid form	& time of	of submission of bid document	of opening of technical bid
27.09.2021 11:00 a.m.	27.09.2021 6:00 p.m.	document fees 28.09.2021 02:00 p.m.	28.09.2021 03:00 p.m.	30.09.2021 11:00 a.m.	30.07.232	fees 01.10.2021 02:00 p.m.	01.10.2021 03:00 p.m.

Note:- Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-VIII) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

> Executive Director (EPM) RMSCL, Jaipur