



RAJASTHAN MEDICAL SERVICES CORPORATION LTD.

D- Block, Swasthya Bhawan, Tilak Marg, C-Scheme JAIPUR (Raj)



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No. F-8() RMSC/EPM/M-1/17-18/NIB-392/ 2018/ 222

Dated: 23-1-19

CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: - Revised Bid Schedule of item Biological Safety Cabinet and Amended Technical Specifications of Bid document of item, under No. F-8() RMSC/EPM/M-1/18-19/NIB-392/4570 date: 24.12.18

In reference to subject cited above and NIB-392, the representations received from the various firms and issues raised by the Bidders, are examined by the competent Authorities and technical committee and approved by purchase committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document Amended Technical Specification of items as below:-

Biological Safety Cabinet Based On Class II Type A-2 For 30% Exhaust- Vertical Flow As per International

Technical Specifications of item - Biological Safety Cabinet Based On Class II Type A-2 For 30% Exhaust- Vertical Flow As per International

Standards:

1. Work Area :- 4 x 2 ft (approx) Shutter opening
2. Air Flow :- Vertical down flow (30% Exhaust)
3. Average Inflow velocity of 100ft/min (.51m/s) through work access opening.
4. Cleanliness Level :- Less than 3.5 particles/liter of 0.5 um and larger (ISO 14644-1)
5. Noise Level :- Less than 65 db
6. Vibration Level :- Less than 2.5 um
7. Average Air Flow :- 90 ± 20 fpm (down flow)

CONSTRUCTION

1. Main Body is made of rust & chip resistant Mild steel.
2. Table Top & Working zone :- STAINLESS STEEL [(304 GRADE) - Heavy gauge – 14G & 16G]
3. Table Top in two part :- (a) Front Perforated portion – 4” size
(b) Non – Perforated working Zone: - Table sunken type (through type) for Spillage Management. It can be lift easily for cleaning below the table.

INCLUSIVE OF STANDARD ACCESSORIES

1. HEPA / ULPA filter- MINIPLEAT – 99.99 % efficiency for 0.2 to 0.3 micron with integral metal guard & filter frame gasket & manufactured in class 1000 super clean Air-Conditioned environment for longer life. (at supply and exhaust)
2. Air Pressurization system- Statically and dynamically balanced fitted with special vibration reducing system to suit low noise and vibrations.
3. Front Door-Polycarbonate/Toughened Glass (6 mm) – Adjustable as per requirement vertical sliding (one piece with counter weight arrangement finger tip control)
4. Slide walls in Stainless Steel (304 grade) - Heavy Duty – 14 Gauge.
5. Fluorescent Light-low energy chokes less to withstand larger fluctuations in voltage- Placed outside working zone to avoid turbulence. (Intensity – More than 1200 Lux)
6. Support Stand with leveling Screws adjustable from 55-85 mm.
7. U.V. lamp-in working zone (40 micro watts/squares cm at 254 nm or better). So placed that you cannot see directly i.e. eyes are always protected.
8. Universal Service fittings for gas & Air.
9. Switches & Electrical Socket outlet (15/5 amp- industrial type for longer life)
10. Pressure Monitors: Magnehelic Gauge/digital display- to indicate pressure drop across HEPA Filter / air velocity sensors.
11. Display of air velocity down flow and inflow.



12. DOP Port. Current Leakage Circuit Breaker. Air Tight Duct Exhaust Extension Exhaust ducting.
13. Automatic air velocity compensation through increase in the motor speed.

SPECIAL FEATURES

- Contaminated plenum in negative pressure to prevent leakage into the environment. Exhaust blower placed outside at roof top level up to 10 feet, rest to be as per square feet cost quoted by firm in BOQ or sealed envelope for exhaust to be used at the individual site.
- Exhaust Blower- Suitable for 30% Exhaust interconnected with supply air blower, the system will only start when the negative pressure is developed. With virus burn out unit.
- Special precautions are taken so that if by chance the exhaust blower is not working, you will get buzzer
- Audible alarm warns the operator if the window is raised above the recommended height of 203 mm (8")
- Air Short Circuiting or the By Pass arrangement: By chance there is ingress of fresh air from near the top of front shutter. This ingress will not percolate into the working zone: but will be short circuited to return duct at the back. Safety Suction points near the upper portion of the front shutter transfer short circuit dirty air into exhaust/return duct.
- Adjustable Zero-leak proof damper at supply air intake & exhaust ducting.
- Two dedicated blower – exhaust blower and down flow Blower with damper to dynamically balance the inflow and down flow air velocities.
- Special provision for system which gives alarm to stop supply air in case the negative pressure goes beyond certain limits to stop contamination egress to laboratory
- Spillage trough below the working table is of 16G Heavy Duty Stainless Steel. This trough has drain cock
- Back holes on vertical walls: To provide more work area on table top.
- Certifications Required : NSF-49 or European CE (Notify Body) EN-12469
- Comply with IEC 60601 towards Safety Requirements
- Guarantee: Three years on equipment.
- CMC: CMC will be given @ 3 % of Net Rate exclusive of GST (As applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for Five years (on yearly basis) after completion of Guarantee period of three years.

POWER REQUIREMENT: 1KW Single/Three Phase

Firm to validate the cabinet at time of installation and 2 times every year to change HEPA as and when required during guarantee period validation to include following requirements (at site) :-

1. Down flow velocity and volume Test
2. Inflow velocity Test
3. Airflow Smoke Pattern Test
4. HEPA Filter Leakage Test
5. Cabinet Leakage Test
6. Electrical Leakage : Ground Circuit Resistance and Polarity Test
7. Lighting Intensity Test
8. Vibration Test
9. Noise Level Test
10. UV Lamp Intensity Test
11. Alarms and indicators test (if provided).

The differential pressure gauge should be calibrated.



Revised bid schedule:-

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

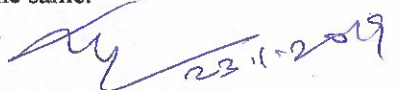
Last date & time for sale of bid form	Last date & time of receipt of bid form	Date & time of opening of technical bid
<u>05.02.2019</u> <u>11:00 AM</u>	<u>05.02.2019</u> <u>6:00 PM</u>	<u>06.02.2019</u> <u>11:00 AM</u>

It is also clarified that information of award of contract shall be communicated to all participating bidders on the website www.rmssc.nic.in and sppp.raj.nic.in. Please note that individual bidder will not be intimated."

Note:-

Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-V, Schedule of Supply, and Point no. 3) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

This bears the approval of M.D., RMSCL, Jaipur.


Executive Director (EPM)
RMSCL, Jaipur