

SPECIFICATIONS FOR IVC SYSTEM FOR MICE

1) Individually Ventilated Caging System for Mice (IVCS) :

Double sided IVCS units with a provision for a minimum 110 cages per Unit (Minimum 55 Cages per side) including cages and independent Air-Handling system ---3 Nos

2) Spare cages complete with water bottles etc.—300 Nos and Spare cage lids- 300 Nos

3) Spare Hepa Filters for Air-Handling Units --5 Nos.

4) Spare Disposable cage filters- 1000 Nos.(Quantity may vary)

5) Any other optional taht may potentially improve the performance of the system.

CAGES

- Floor area should not be less than 500 cm²
- The ventilated cage should have provision for positive or negative pressure mode with facility to change the air pressure via the AHU control panel.
- Cage body should be strong to withstand rigorous washing and frequent autoclaving.
- Cage should equip with S/S wire Lid bar.
- Caging system should have proper sealing mechanism.
- Cage body should have provision for water bottle, microbiological filter (filtration efficiency 99.5% referred to 0.3μ particles size or better), supply and exhaust valve for air ventilation and latches.
- Polycarbonate/polysulfonate transparent Water bottle with a stainless steel 316 cap.
- Inlet and outlet air nozzles must prevent cross-contamination.
- Inlet and outlet air nozzle of the cage should not cause air drafts.
- All components are to be autoclavable and washable.
- Autoclavable plastic card holder.

RACKS

- Double sided
- Rack with system of vertical plenums which feature easily demountable air nozzles for the supply and exhaust of air individually to each cage, both positioned on the top of the cage.
- AISI 304 stainless steel rack structure, indicators for cage properly docked. Heavy duty, fully autoclavable castors - maintenance-free with brakes.
- The main horizontal plenums should facilitate the equal air distribution and have to be easy demountable.

AIR HANDLING UNITS

- Filter : H 14 Hepa filter for supply and exhaust
- Air delivery to cages: 80 ACH to each cage
- One AHU should be capable of serving to 2 double sided or 4 single sided racks with the option of easily setting the number and the type of cages via the control panel.
- Stand-alone system physically separated from the racks.
- Microprocessor controlled system for setting and control of parameters.
- Temperature and humidity sensors.
- DOP test certification for HEPA filters both supply and exhaust.
- Dry contact for alarm connection to integrate with the building management software.
- Low noise Units (< 50 dBA).
- Easy access to the pre-filters.
- Provision to exhaust air out of the room.
- Should be supplied with the following test reports:
 - a. Air flow tests in both positive and negative pressures
 - b. Filter integrity
 - c. Calibrated sensors
- Equipment manufacturer should have standard certifications like ISO **9001** and ISO 14001.

- Please ensure that the specifications mentioned in the offers must cover all the parameters listed in our enquiry and should attach the supporting documents. Unspecified parameter will be treated as non-compliant.
- The principal/local agents are responsible for loading/unloading of material. Installation testing, checking of specifications and the validation should be done at the specified area. Training of users to be done free of cost at the site.
- Please confirm whether the spares and consumables for the system would be available for a minimum period of 10 yrs.
- Pre-installation and utility requirements for installation and running the system should be clearly mentioned.
- Availability of local service support and response time for a service call during and after the warranty to be specified.
- List of users in India and abroad of the similar models as the one(s) offered along with the names, addresses, telephone numbers and mail ID's to be enclosed separately
- Technical presentation and Demo on the systems offered is to be made on request from NIAB. In case any of the invited parties fails to demonstrate their compliance as per the demanded specifications, the party will be treated as disqualified.