



**INDIAN INSTITUTE OF TECHNOLOGY, KANPUR**  
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**UTTAR PRADESH, INDIA**

**TENDER REFERENCE NO. : IITK/BSBE/DSK/2021-2022/N-Cons-1**

**BID SUBMISSION END DATE- 02.09.2021**

**TENDER DOCUMENTS**

**FOR**

**“Individually Ventilated Animal Caging System (IVC System) for Mice”**

## **Tender document**

Department of Biological Sciences & Bioengineering  
Indian Institute of Technology Kanpur  
Kanpur (UP) 208016 India

Enquiry date: August 23, 2021

Enquiry No: IITK/BSBE/DSK/2021-2022/N-Cons-01

Sealed quotations are invited for Individually Ventilated Animal Caging System (IVC System) for Mice. The detailed specification is described below.

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### **Specifications of the Individually Ventilated Animal Caging System (IVC System) for Mice:**

#### **Minimum technical specifications:**

#### **Standalone type Ventilator (Air Handling Unit)**

Standalone type IVC Ventilator unit shall be in 304 grade stainless steel construction. Unit shall consist of two separate modules for supply of clean air to animal cages and to evacuate contaminated air from the cages. Both the modules will individually consist of following;

1. Suitable design silent operation blower to handle supply air / exhaust air.
2. Prefilter & Hepa filter, grade H4 & H14 of suitable size.
3. Supply / Exhaust air fan with speed regulator.
4. Necessary electrical & controls to monitor various parameters such as Air Changes per hour, average cage temperature and humidity, working pressure mode.
5. Programmable Logical Controller with TFT LCD, Touch screen type colour Display to set and monitoring of above referred parameters as required. The controller should be capable for necessary logging of basic parameter data up to the period of 1 year.
6. Run our counter with change filter notifications.
7. Necessary audio visual alarm system (Local) to indicate the failure of maintenance of any of the parameters mentioned above.
8. Housing & structure in SS 304 construction.

9. Castor wheels in special grade nylon construction with SS housing, 2 Nos. free moving & 2 Nos. with pad lock.
10. Supply & Exhaust air manifolds suitable to connect up to two double sided racks or four single sided racks to each Ventilator.
11. Ventilator shall be suitable for connecting 2 Nos. single sided racks on each side.
12. Arrangement to adjust fan speed automatically as per the set value.
13. Ventilator shall operate on 220 V, 50 Hz, single phase AC power supply.
14. 3 - 4 hours UPS power back up.

### **Cage Rack with air distribution system**

Single sided Cage Rack (suitable to mount cages from double side) shall be in SS 304 construction and shall be suitable to house at least 90 Nos. mice cages selected for the system:

The cage rack shall comprise of following;

1. Frame structure with air distribution ducts, supply & exhaust air headers in SS 304 construction.
2. Duct couplers, endcaps, supply air nozzles & exhaust air nozzles in special grade rubber construction suitable for autoclaving.
3. Cage runners in special grade nylon construction suitable to withstand autoclave conditions.
4. Suitable design castor wheels with SS 304 casing and special grade nylon wheels (2 nos. free moving & 2 Nos. with padlock arrangement).
5. Wire reinforced hosepipes suitable to connect supply and exhaust air headers with ventilator.

### **Animal Cage assembly with water bottle suitable for Mice IVC system (For Experiment & Housing)**

IVC cage assembly shall consist of following;

1. Cage bottom in polysulphone construction having floor area not less than 500 sq.cm. and cage effective height not less than 14 cm. The cage bottom will have suitable arrangement to properly house in cage rack at required position.
2. Cage lid in polysulphone construction with supply air and exhaust air port & water bottle port with self-closing isolators, HEPA grade breather filter with filter retainer ring & cage lid clamps.
3. Water bottle in Polysulphone construction with special grade rubber gasket and bottle cap with nozzle in SS 316 construction.
4. Cage grill in SS 304 construction with nylon gasket.
5. Cage card holder with hanger clip.
6. Proprietary certificate, if any should be included.

### **Terms and Conditions:**

1. Quotation should have minimum validity of 90 days from the date of opening.

2. Price must include all taxes and charges (Including delivery, Installation, etc.). Details of these installations must be provided.
3. Quotation should carry proprietary certificates (if applicable) and authorization letters/certificates.
4. Quotation should carry list of users in India for the equipment.
5. Maximum educational discount should be applied.
6. Warranty/Guarantee should be clearly mentioned.
7. Only those bids will be considered valid which will have equipment with all accessories listed above.
8. Technical bid and price bid should be submitted in separate sealed envelopes. The two sealed envelopes could be sent together in one larger envelope.
9. Quotations are required in a sealed envelope with enquiry number mentioned on the envelope.
10. Part-I (Technical) should contain all the technical details cum specifications of the offered solutions.
11. Part-II (Financial) should contain the prices of the offered solutions along with commercial terms and conditions. The prices should be quoted separately for each item.
12. Delivery period will be 4-6 weeks.
13. IIT Kanpur is fully exempted from payment of GST on Imported Goods against our DSIR certificate.
14. IIT Kanpur is partially exempted from payment of Customs Duty (We will provide Custom Duty Exemption Certificate, CD applicable is 5.5%).
15. The Institute reserves the right of accepting or rejecting any quotations without assigning any reason thereof.
16. All prices should be F.O.R. IIT Kanpur.
17. Those not fulfilling any of the criteria will be disqualified.

