

Notice Inviting Global Tender

“Supply and Installation of Individually Ventilated Cage (IVC) Units” at the Central
Animal Facility, IISc

Tender No. CAF-IISc/IVC/2023-2024



Indian Institute of Science

Central Animal Facility
Indian Institute of Science
Bangalore — 560012

31st October 2023

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SECTION 1 – Bid Schedule

1	Tender Number	CAF-IISc/IVC/2023-2024
2	Tender date	31 st October 2023
3	Item description	Supply and installation of Individually Ventilated Cage (IVC) units at the Central Animal Facility, IISc (Item is GTE Exempted. Sr # 252 as per OM dated 03/04/2023)
4	Quantity	07 Air Handling Units, 08 Single Sided Racks (with a minimum of 80 IVC cage set or more per rack), 150 Complete cage set and additional 250 Cage bottoms
5	Tender Type	Two Bid System Technical Bid (Part-A) Commercial Bid (Part-B)
6	Place of Submission and tender opening	The Chair, Central Animal Facility, Indian Institute of Science Bangalore, Karnataka – 560012, India
7	Last Date & Time for submission of tender	21 st November 2023
8	Date of opening of technical bids	23 rd November 2023
9	For further clarification	1. The Chair Central Animal Facility Indian Institute of Science Bangalore, Karnataka – 560012 India Email: chair.caf@iisc.ac.in Phone: 080-22932734/2457 2. Dr. Amol Fiske Central Animal Facility Indian Institute of Science Bangalore, Karnataka – 560012 India Email: office.caf@iisc.ac.in

SECTION 2 - ELIGIBILITY CRITERIA

Prequalification criteria:

1. The Bidder's firm should have existence for a minimum of 3 years. (Enclose Company Registration Certificate).
2. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
3. If the Bidder is a local distributor/dealer/Agent, it is mandatory to attach authorization certificate along with the bid from the original equipment manufacturer.
4. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per - Annexure 4.
5. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.
6. Quote should come only from Global Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
7. The quotations should be on CIP/CIF-IISc Bangalore basis in Foreign/Indian currency. OR All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.

SECTION 3 — TERMS AND CONDITIONS

(A) Submission of Tender:

1. All documentation in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
 - a. Technical Bid (Part-A) -
Technical bid consisting of all technical details, checklist for conformance to specifications, format in which the price bid is quoted without the actual prices (suppliers who include any indication of prices in the technical bid will be automatically disqualified).
 - b. Commercial Bid (Part-B) -
Indicating item-wise price for the items mentioned in the technical bid, as per the format of quotation provided in the tender, and other commercial terms and conditions.
3. The technical bid and price bid should each be placed in a sealed cover, superscripting on both the envelopes the tender No. and the due date and both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No & Due Date.
4. The SEALED COVER superscripting tender number / due date & should reach “The Chair, Central Animal Facility, Indian Institute of Science, Bangalore, Karnataka- 560012, India” on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
5. All communications are to be addressed to- “The Chair, Central Animal Facility, Indian Institute of Science, Bangalore, Karnataka-560012, India.
6. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document (Indian Bidders only).
7. If price is not quoted in Commercial Bid as provided in tender document the bid is liable to be rejected.
8. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.
9. Incomplete bids will be summarily rejected.

B) Cancellation of Tender:

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming to the tender terms.

C) Validity of the Offer:

The offer shall be valid 120 Days from the date of opening of the commercial bid.

D) Evaluation of Offer:

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or during commercial evaluation. The decision in regard to acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.
4. The award of contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
 - a. Non-submission of complete offers.
 - b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
 - c. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall construe that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.
7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories for installation, operation, pre-processing and post processing, optional items, recommended spares, warranty, annual maintenance contract.

E) Pre-requisites:

The bidder will provide the prerequisite installation requirements along with the technical bid.

F) Mode of Shipment:

In case of foreign bidders, the consignment must be airlifted, insured and transported to the Bangalore International Airport (CIP/CIF). Necessary custom clearance will be done by IISc, Bangalore, from Bangalore International Airport.

G) Customs clearance:

The IISc, Bangalore will furnish the necessary papers for the import and custom clearance of items into India,

H) Warranty:

The complete system is to be under warranty for a period of minimum 3 years (1 year + minimum 2 years extended warranty) including free supply of consumables, spare parts and data analysis software from the date of functional installation. If the equipment is found to be defective, it has to be rectified or when required replace required parts/components at the cost of the bidder within 15 days from the date of receipt of written communications from IISc, Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

I) Comprehensive/Annual Maintenance Contract:

A comprehensive/annual maintenance contract for a period of 2 years post warranty should be provided on completion of warranty period without any cost to Institute.

J) Purchase Order:

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in tender is only indicative. IISc, Bangalore reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

K) Delivery and Installation:

The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order. The system should be delivered, installed and made functional within 90 days from the date of receipt of purchase order. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system with all the items and features/capabilities tested by the IISc, Bangalore. After successful installation and inspection, the date of taking over of entire system by the IISc, Bangalore shall be taken as the start of the warranty period.

L) Payment Terms:

The payment will be through a Letter of Credit and milestone of the payment will be determined after the mutual discussions with the successful bidder.

M) Statutory Variation:

Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed on to IISc, Bangalore.

N) Disputes and Jurisdiction:

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

O) General:

1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder must visit the installation site before submission of tender, with minimum 3-4 days prior intimation.
4. All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.
5. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.

Section 4 - User Requirement Specification

Technical Specification for IVC System

S No	Specifications
A	<p>Each IVC system should include,</p> <ol style="list-style-type: none"> 1. Air Handling Unit (AHU)/Ventilator 2. Single sided racks (with minimum cage capacity of 80 and above for mice loaded with complete IVC Cage Set) 3. IVC mice cages set of suitable size for the racks
1	<p>Air Handling Unit:</p> <ol style="list-style-type: none"> 1. Should be independent and not rack mounting type. 2. Should be able to deliver 60-80 air changes per hour to each individually ventilated cage. 3. Should be able to maintain filter load compensation automatically. 4. Should be made up of rust-free polymer or stainless steel (above SS 304 or 316 grade), easily cleanable, compatible with gas/chemical sterilization. The air handling unit should be made up of rust free polymer, light weight, with ease for manoeuvrability 5. Should be compact and easy to move and handle. 6. Should have nylon/steel ball bearing castor wheels with pad lock for easy mobility, positioning compatible with epoxy flooring. 7. Should have provision to connect up to 4 single sided racks. 8. Should have built-in safety devices/ alarm system for fault indication. 9. Should have microprocessor based control panel with touchscreen display for setting and controlling supply and exhaust air quantity, monitoring average cage temperature/RH, HEPA filter counter, cage number setting, alarm log and pressure mode. 10. AHU should have monitoring device to check the status of the filters. 11. HEPA Filters should be DOP Tested. The efficiency level of the filter should be 99.99% to prevent particles ≥ 0.3micron. 12. Maximum air speed limit is 0.2 m/sec above animal level. 13. Pre-filters must be easily accessible and cleanable. 14. Power supply should be 220-240 V, 50 Hz AC. 15. Should provide validation certificate and reports with all parameters (sensor calibration, aeraulic test etc.) tested. 16. Manufacturer should be ISO certified. 17. Should have silent operation fans/blowers with AC/EC motor and noise level should be ≤ 50 db. 18. Should have the provision for automatically regulate the fan speed. 19. The AHU width should not be more than 13 inches. 20. Desirable: It should be upgradable with a technology able to track locomotor activity of the animals in the home cage.

2	<p>IVC Racks</p> <ol style="list-style-type: none"> 1. Frame structure, supply and exhaust air headers with air distribution system should be of stainless steel above SS 304 quality. Preferably with a design considering operators ergonomics while handling 2. Castor wheels should be 4 in number and with at least two wheels having locking system for rack positioning. Castor wheels should be made of Polyphenylsulphone castors. To ensure very long lifespan, perfectly withstanding repeated autoclave cycles and compatible for epoxy flooring. 3. Each single side rack should accommodate minimum of 80 or more mice cages. 4. Entire rack with all parts should be easy to clean, disinfect and must withstand repeated autoclaving. 5. The rack must have self-locking system for docking the cages in position with spring free visible indicator. 6. Rack horizontal plenums must be cylindrical in shape to get the equal air distribution also to avoid the dust/pathogens trapped at exhaust plenums. 7. Inlet and outlet air nozzles should be at the rear top of the cage preventing the animals from being exposed to air drafts and consequently potentially anxious behaviour and stress. 8. Inlet and outlet air nozzle should not be invasive inside the cage, thus avoiding the cross contamination. 9. Inlet and outlet air nozzles should be made up of silicone and should withstand autoclaving. 10. Air changes per hour (ACH) inside the cages at all levels should not vary much from the mean ACH value (+/-15%) and it should be the same even with 50% cages removed from the rack. Third party validation is mandatory with certificate.
3	<p>IVC Cage Set (Cage bottom, Cage Top, SS Lid and water bottle)</p> <ol style="list-style-type: none"> 1. Cages must be individually ventilated and should be able to run in both positive and negative pressure modes. 2. Cages should be made of Polysulphone material with good transparency. 3. Cage should be ergonomically designed for easy handling and better access to animal while cage changing. 4. Each cage should have all necessary components such as cage bottom, cage grill (SS 304 grade), cage top with microbiological filter, cardholder along with water bottles and locking system. 5. All components of the cages must be washable and should be able to withstand repeated autoclaving for at least 150 cycles. 6. Minimum floor area of the cage should be 500 cm². Overall dimensions of the cages not less than 380 mm x 200mm x 140 mm (LxWxH). 7. The cage bottom should have rounded corners. The cage body should feature an embedded enrichment, to avoid additional inserts, to reduce the effort required during the cage change and processing, minimizing the risk of cross-contamination. 8. Should have self-locking system onto the rack with a proper docking.

9. Air valve of cage top must be self-closing and protected by silicone-O ring in order to have high level of sealing even when the cage is undocked from the rack.
10. Cage top should be made of polysulfone and fitted with 0.3µm microbiological filter in a retainer to allow air entry in case of power failure. Preferably, system that locks the top to the base when the cage is closed to avoid accidental opening without the need of buttons or latches that may obstacle the view inside the cage.
11. The cage top should be configured with an embedded system of hooks that allows to lift and keep it vertically in the open position to minimize the risk of contamination and working area occupancy. Once in the vertical open position, no contact between the internal parts of the cage and the external ones (potentially contaminated) should occur. The system should work without the use of any self-standing top holders that takes space from the working surface
12. The lid must be made of high quality SS 304, in order avoid rust and oxidization that can affect the animal health, without any dangerous parts (sharp edges, v-shaped points). The SS lid should be with half wire bar lid for easy access to the animal while cage changing and easy stacking in less space.
13. Water bottles should be made of polysulfone and placed exterior/ outside the top cover and it should make perfect sealing when nozzle inserted into the cage or taken out of the cage.
14. The cages should be fitted with appropriate silicon gasket to ensure efficient air sealing
15. Water bottle should be of self-centering type and should hold a minimum of 250 ml of drinking water.
16. Water bottle nozzle / caps should be cone-shaped in order to maximize water availability
17. The nozzle should be made of welding-free high quality stainless steel. **Preferably with** a silicone O-ring on the nozzle in order to provide perfect sealing once the bottle is placed in position.
18. Air nozzles should be placed above animal height to prevent stress to the animals.
19. Water bottle port should be with self-closing isolators.
20. Bottle and card holder should be placed on the side of the cages to get clear visibility to the animals.
21. The vendor should quote for minimum 150 Complete cage set (Cage bottom, cage top, SS lid and water bottle) and additional 250 Cage bottoms extra along with the set capacity of the racks.

Desirable Specifications

Air handling unit:

1. Should have provision to control or access through any portable or fixed

	<p>external device that is equipped with a web browser/application, irrespective of the Operating System and display all the AHU information in the tablet/mobile phone/PC screen.</p> <p>2. HEPA filter should be H13 or H14 grade and pre-filter should be of grade H4.</p> <p>3. Provision for system alarm integration with the building management software.</p> <p>4. Provision for wireless/remote alarm through data logger, multiple ventilator connectivity with PC for remote monitoring, control and data download either through LAN or Wi-Fi.</p> <p>5. Provision for external communication ports</p>
	<p>IVC racks:</p> <ol style="list-style-type: none"> 1. Duct couplers, end caps, cage supply air nozzles & cage exhaust air nozzles in special grade silicone construction. 2. Plenums for air supply and exhaust should allow equal air distribution. 3. The possibility of the racks and cages to be upgraded at a later stage with a technology able to ensure: <ul style="list-style-type: none"> - 24/7 detection of animal activity in the home cage for complementary animal welfare checks and to enrich scientific data set with locomotor activity tracked at individual cage level - monitoring the constant presence of water and diet in the cages to expand animal welfare capabilities - provide automated alerts in case of water floods in any IVC cage - ensure unique cage identification and tracking at all times - ensure automated cage inventory tracking for location and billing purposes - optimise "on demand" cage changing schedules to reduce animal stress while saving natural and labour-related resources - support staff allocation scheduling through a dedicated resource planner

Note:

- 1. The vendor should visit the site and make a detailed drawing. Inferior designs will be rejected.**
- 2. The instruments should fit in the available floor area at installation site.**
- 3. The vendor will be responsible for the complete installation, testing and handover.**
- 4. Accessories: Required, If any has to be provided by successful bidder**
- 5. Training and demonstration:**

Training on usage of the machine (hardware) must be demonstrated by the successful bidder free of cost at bidder's cost to the end users at IISc, Bangalore

-----END OF SECTION-----

Section 5: Bid

The bid should furnish all requirements of the tender along with all annexure in this section and submitted to

“The Chair

Central Animal Facility

Indian Institute of Science

Bangalore, Karnataka - 560012,

India”

Annexure-1:

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Sr. No.	Name of the Bidder	
1.	Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)	
2	Registration No/ Trade License, (attach attested copy)	
3	Registered office address	
4	Address for communication	
5	Contact person- Name and designation	
6	Telephone number	
7	Website and email ID	
8	PAN No. (attach copy)	
9	GST No. (attach copy)	

Signature of the Bidder

Name

Designation and Seal

Date:

Annexure-2:

Declaration regarding experience

To,
The Chair
Central Animal Facility
Indian Institute of Science Bangalore, Karnataka- 560012
India

Ref: Tender No: XXXXXXXXXXXX Dated: XXXXXX

Supply and Installation of Individually Ventilated Cage (IVC) Units at the Central Animal Facility,
IISc

Respected Chair,

I have carefully gone through the Terms and conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installing IVC Units.

(Signature of the Bidder)

Name

Designation and Seal

Date:

Annexure-3:

Declaration regarding track record

To,
The Chair
Central Animal Facility
Indian Institute of Science Bangalore, Karnataka- 560012
India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and Installation of Individually Ventilated Cage (IVC) Units at the Central Animal Facility,
IISc

I have carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred / blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following

Sl.No.	Country in which the company is Debarred /blacklisted / case is Pending	Blacklisted / debarred by Government / Semi Government/Organizations /Institutions	Reason	Since when and for how long
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(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully

Signature of the Bidder

Name

Designation and Seal

Date:

Annexure - 4:

Declaration for acceptance of terms and conditions

To,
The Chair
Central Animal Facility
Indian Institute of Science Bangalore, Karnataka- 560012
India

Ref: Tender No: XXXXXXX

Dated: XXXX

Supply and Installation of Individually Ventilated Cage (IVC) Units at the Central Animal Facility,
IISc

I have carefully gone through the Terms & Conditions as mentioned in the above-referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

Signature of the Bidder

Name

Designation, Seal

Date:

Annexure 5:

Details of the items quoted:

Company Name	
Product Name	
Part/Catalogue number	
Product description/main features	
Detailed technical specification	
Remarks	

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Section 6: COMMERCIAL BID

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

Sr. No.	Description	Catalogue No.	Quantity	Unit Price	Sub Total
1	Equipment Price				
2	Accessories for operation and installation				
3	All Consumables, spares and software to be supplied locally				
4	Warranty 3 years (1 year + 2 Years extended warranty)				
5	Cost of Insurance and freight				
6	CIP/CIF IISc, Bangalore				

Buyback, if any

Sr. No.	Description	Quantity	Unit Price	GST	Total

Addressed to,

To,
The Chair
Central Animal Facility
Indian Institute of Science Bangalore, Karnataka- 560012
India

SECTION 7 - CHECK LIST

(This should be enclosed with technical bid- Part A)

The following items must be checked before the Bid is submitted:

1. Envelope "A": Technical Bid

- a. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:

Annexure 1: Bidders details

Annexure 2: Declaration regarding experience

Annexure 3: Declaration regarding clean track record

Annexure 4: Declaration for acceptance of terms and conditions

Annexure 5: Details of items quoted

- b. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

2. Envelop "B": Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No. & Due Date.