

Notice Inviting Tender

Supply and Installation of IVC units

Tender No. CAF-IISc/IVC /2021-2022



INDIAN INSTITUTE OF
SCIENCE

**Central Animal Facility
Division of Biological Sciences
Indian Institute of Science
Bangalore – 560012**

January 2021

Chair
Central Animal Facility
Indian Institute of Science
Bangalore - 560012

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SECTION 1 – BID SCHEDULE

1	Tender No	CAF-IISc/ IVC /2021-2022
2	Tender Date	20th January 2021
3	Item Description	Supply and Installation of IVC units
4	Quantity	AHU/Ventilator: 12 (mice – 10 and rat -2) Cage racks: 24 (mice – 20 and rat -4) Cages: 1500 (mice 1300 and rat 200) Cage changing station: 12
5	Tender Type	Two Bid System a) Technical Bid (Part-A) b) Commercial Bid (Part-B)
6	Place of Submission and tender opening	Chair Central Animal Facility Indian Institute of Science Bangalore – 560012, India
7	Last Date & Time for submission of tender	10th February 2021, 15:00 hrs
8	Date of opening of technical bids	15th February 2021, 16:00 hrs
9	For further clarifications	Chair Central Animal Facility Indian Institute of Science Bangalore- 560012, India Email: chair.caf@iisc.ac.in and office.caf@iisc.ac.in Phone : 080-2293 2734/2674

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.**

SECTION 3 – TERMS AND CONDITIONS

A) Submission of Tender:

- 1. All documentations 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, check list 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 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– 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– 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 requirement of the equipment 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 of items into India, necessary custom duty exemption certificate and other supporting documents to facilitate the import of the items will be provided.

H) Warranty:

The complete system is to be under warranty period of minimum 5 years (year wise breakup value should be shown in the commercial bid) including free supply of consumables, spare parts and data analysis software from the date of functional installation. If the instrument is found to be defective, it has to be replaced or rectified at the cost of the bidder within 30 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) Annual Maintenance Contract:

An annual maintenance contract for a period of 2 years post warranty should be provided on completion of warranty period.

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 120 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 and inspection of 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. No partial shipment is allowed.

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 may visit the installation site before submission of tender, with 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: Specifications for IVC units and Changing station

Part A. Individually Ventilated Caging (IVC) System with AHUs

Sl. No.	Technical Specifications
1	Each IVC system should include, <ol style="list-style-type: none"> 1. Air Handling Unit (AHU)/Ventilator 2. Single side racks (Separate quotations for all available sizes of racks with cages 60 and above for mice and 40 and above for rats) 3. IVC cages of suitable size for the racks
2	Air handling Unit: <ol style="list-style-type: none"> 1. Should be independent and not rack mounting type. 2. Should be able to deliver 50-80 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 grade), easily cleanable, compatible with gas/chemical sterilization. 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 and positioning. 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 (desirable) for setting and controlling supply and exhaust air quantity, and monitoring average cage temperature, humidity and pressure Mode. 10. HEPA Filters should be DOP Tested. The efficiency level of the filter should be 99.99% to prevent particles ≥ 0.3 micron. 11. Maximum air speed limit is 0.2 m/sec above animal level. 12. Pre-filters must be easily accessible and cleanable. 13. Power supply should be 220-240 V, 50 Hz AC. 14. Should provide validation certificate and reports with all parameters (sensor calibration, aeraulic test etc.) tested. 15. Manufacturer should be ISO certified. 16. Should have silent operation Fans with AC/EC motor and noise level should be ≤ 50 db. 17. Should have the provision for automatically regulate the fan speed.
3	IVC Racks <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. 2. Castor wheels should be 4 in number and with at least two wheels having locking system.

	<ol style="list-style-type: none"> 3. Each single side rack should accommodate minimum of 60 cages. 4. Entire rack with all parts should be easy to clean, disinfect and should be autoclavable. 5. The rack must have self-locking system for docking the cages properly.
4	IVC Cages <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 of Polysulphone material with good transparency. 3. Each cage should have all necessary components such as cage bottom, cage grill (SS 304 grade), cage lid with breathing filter, cardholder along with water bottles and locking system. 4. All components of the cages must be washable and should be able to withstand repeated autoclaving for at least 150 cycles. 5. Minimum floor area of the cage should be 360 cm². 6. Should have self-locking system onto the rack with a proper docking. 7. Water bottles (nozzles) should have ball bearing. 8. Cage lid should be fitted with 0.3µm filter in a retainer to allow air entry in case of power failure. 9. The cages should be fitted with appropriate gasket to ensure efficient air sealing. 10. Water bottle should be of self-centering type and should hold a minimum of 200 ml of drinking water. 11. Bottle cap should maximize water availability to animals. 12. The nozzle should be of high quality (SS 316 grade) and provide perfect sealing once the bottle is placed in position. 13. Air nozzles should be placed above animal height to prevent stress to the animals. 14. Water bottle port should be with self-closing isolators. 15. The vendor should quote for 30% extra cage units (in number) along with the set capacity of the racks.

Desirable specifications:

1.	Air handling unit: <ol style="list-style-type: none"> 1. Should have provision to control or access through any portable or fixed 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. 2. HEPA filter should be H13 or H14 grade and pre-filter should be of grade H4. 3. Provision for system alarm integration with the building management software. 4. Provision for wireless/remote alarm through SMS, data logger, multiple ventilator connectivity with PC for remote monitoring, control and data
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	download either through LAN or Wi-Fi.
	5. Provision for external communication ports
2. IVC racks:	<ol style="list-style-type: none"> 1. Duct couplers, end caps, cage supply air nozzles & cage exhaust air nozzles in special grade rubber construction. 2. Castor wheels with SS 304 casing should be maintenance free, lockable and should not damage the flooring. 3. Plenums for air supply and exhaust should allow equal air distribution.
3. Cages:	<ol style="list-style-type: none"> 1. The air supply inlet should be positioned to prevent direct exposure to animals.

General requirements:

1. The manufacturing company must comply with **ISO 9001** (quality management system) and ISO 14001 (environmental management system) standards.
2. Validation for the entire system including cages, racks and AHU along with filter integrity test for HEPA filter is mandatory (Aerolic test, DOP filter integrity test, electrical integrity, sensor calibration for temperature and humidity).
3. The vendor will be responsible for loading, unloading of material and provide installation at specified area.
4. The equipment should come with detailed instruction manual.
5. The vendor should furnish information about the availability of after sales service and ability to attend emergency calls for troubleshooting. Availability of local service support and response time for a service call during and after the warranty should be specified.
6. The vendor must furnish a list of users of the product in India and certificate of performance from users preferably from national level institutions.
7. The vendor should provide at least **5 years** warranty.
8. Post warranty AMC charges for two years should be quoted separately.
9. Hands on training should be provided at the site of installation, free of cost.
10. Sufficient numbers of spare parts such as tubings, gaskets, HEPA filters, air-nozzles for bottles and pre-filters etc should be provided by the vendor for initial period.

Part B. Cage changing stations

1.	Specifications: <ol style="list-style-type: none">1. Should be suitable to use in GLP standard Lab/Clean Animal facility to change rodent cages.2. Should be compact in size and over all dimension should not be more than 1400 x 800 x 2000 mm.3. Should be calibrated and validated.4. Should be mobile and allow the user to easily move the cabinet inside animal room with lockable castor wheels.5. Should have dual access so that users can work from both sides.6. Should ensure protection and should be safe to use during cage changing.7. There should not be any sharp corners or edges and surface should be clean.8. Microprocessor driven airflow speed should be adjustable to provide safe working conditions.9. The Barrier Air Flow Speed should protect the operator from allergens and particles while manipulating cages inside the cabinet.10. Should ensure protection to the animals from contaminant by minimizing the exposure to aerosols.11. The Incoming and outgoing air should be filtered through a particulate pre-filter (G4 efficiency) and then through an H13/H14 HEPA filter.12. Filters efficiency should be of laminar air flow grade.13. Integrity of HEPA should be DOP Tested and should meet ISO standards.14. Efficiency should be more than 99.50% at 0.3 µm to create a containment level as per ISO 4 standards.15. Protective net or equivalent protection should be provided to avoid bedding and dust particles clogging the exhaust pre-filter, preserving the lifespan and the efficiency of the HEPA filters.16. Should have acoustic and/or optical alarm indicator system according to performance criteria for microbiological safety cabinets. It should indicate when the system is out of range for airflow velocity, front air barrier flow rate, HEPA filters clogging and motor blower fault.17. Should be equipped with EC motors and energy consumption, noise (<65db) and vibration should be minimum.18. Should have LED lighting and two power sockets protected with drip-proof covers19. Work top surface should be scratch resistant stainless steel material of SS 304 grade or above.20. Power Supply should be 220-240 V, 50 Hz. AC.21. Power cord should be at least 4 m length with 5/15 Amp. 3 pin plug.22. Should provide validation certificate and test reports with all parameters.23. Manufacturer should be ISO certified.
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	<p>24. The vendor should provide at least 2 years warranty.</p> <p>25. Post warranty AMC charges for three years should be quoted separately.</p> <p>26. The vendor should provide transportation, installation at the designated site and should provide hands on training to the staff free of cost at the installation site.</p> <p>27. Vendor should furnish details of the local service support and response time for a service call during and after the warranty period.</p> <p>28. The equipment should come with detailed instruction manual.</p> <p>29. The vendor must furnish a list of users of the product/s in India and certificate of performance from users preferably from national level institutions.</p>
2.	<p>Desirable specifications</p> <ol style="list-style-type: none"> 1. Provision to record and save functional data. 2. Provision for adjusting height. 3. Microprocessor based display & controller for airflow speed, barrier flow rate for easy monitoring of the working conditions, such as display for airflow velocity, front air barrier velocity, display of residual lifetime of HEPA filters, display of total time of cabinet operation etc. 4. The average airflow must be higher than 0.30 m/s in the whole internal chamber, equally distributed in the working area for animal protection and avoid cross contamination. 5. The vendor should provide a list of installations in India. 6. Should have regional service center. 7. At least 2 years of warranty should be provided.

Note:

- 1. The vendor should visit the site and make a detailed drawing if required. Inferior designs will be rejected.**
- 2. Both 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**
- 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.

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 - 560012, India**

Annexure-1:**Details of the Bidder**

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

Details of the Bidder

Sl 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 No	
7	Email ID	
	Website	
8	PAN No. (attach copy)	
9	GST No. (attach copy)	

Signature of the Bidder**Name****Designation, Seal****Date:**

Annexure-2:

Declaration regarding experience

To,

**The Chair
Central Animal Facility
Indian Institute of Science
Bangalore – 560012, India**

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and Installation of IVC units

Sir,

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

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3:

Declaration regarding track record

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

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and Installation of IVC units

Sir,

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, Seal

Date:

Annexure – 4:

Declaration for acceptance of terms and conditions

To,

**The Chair
Central Animal Facility
Indian Institute of Science
Bangalore – 560012, India**

Ref: Tender No: XXXXXX

Dated: XXXX

Supply and installation of IVC units

Sir,

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 items quoted:

Company Name	
Product Name	
Part / Catalogue number	
Product description / main features	
Detailed technical specifications	
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:

Sl No	Description	Catalogue Number	Quantity	Unit Price	Sub Total
1	Instrument price				
2	Accessories for operation and installation				
3	All Consumables, spares and software to be supplied locally				
4	Warranty (5 years)				
5	Cost of Insurance and Airfreight				
6	CIP/CIF IISc, Bengaluru				

Buyback, if any

Sl No	Description	Quantity	Unit Price	GST	Total

Addressed to:

The Chair
Central Animal Facility
Indian Institute of Science
Bangalore – 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.