भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुवनंतपुरम
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM
(भारत सरकार, शिक्षा मंत्रालय/ **Govt. of India, Ministry of Education**)
मरुतामला.पी.ओ/ **MARUTHAMALA.P.O**, वितुरा/ **VITHURA** / तिरुवनंतपुरम/ **THIRUVANANTHAPURAM** – 695 551
केरला/ **KERALAM**, भारत/ **INDIA** / फोन/ **Phone:** 0471-2778019 / ईमेल/ **email:** purchasestores@iisertvm.ac.in
GST 32AAAJI0299R1ZS

Tender No : IISER/PUR/1121/SK/SB//26-27 **Date:** 28.10.2026

नियत तारीख/Due Date 18.11.2026

खोलने की तारीख/Date of Opening 19.11.2026

निविदा के लिए आमंत्रण (इ-प्रोक्योमेंट मोड)/ INVITATION TO TENDER (E-Procurement mode only)

प्रिय महोदय/Dear Sirs,

विषय / Subject: Supply, Installation and commissioning of IVC system and accessories for animal housing and handling:

The Institute invites Single Cover Tenders as per DPIIT O.M. No.P45021/2/2017-PP (BE-II)-Part (4) Vol. II dated 8/7/2025, for the following items through the eProcurement System of National Informatics Centre that enables the Tenderers to download the Tender Schedule free of cost and then submit the bids online through Central Public Procurement Portal of Government of India (https://eprocure.gov.in/eprocure/app.).

SL No	Description of Goods	Quantity
1	Supply, installation and commissioning of IVC system and accessories for animal housing and handling as per technical specifications at Annexure 6.	1

ईएमडी/EMD: Rs.40,000/- (Rupees Forty Thousand only) स्टेट बैंक संग्रह द्वारा भुगतान करना चाहिए - निविदा संख्या और कंपनी का नाम उल्लेख किया जाना चाहिए। उद्धरण के साथ लेनदेन पर्ची / प्रिंट आउट या ईएमडी मूल्य के बराबर 90 दिनों की वैधता में बैंक गारंटी या बोलीदाता के उपक्रम जमा करना चाहिए।/ should be paid through State Bank Collect– Tender No & Company Name must be mentioned in the Remarks column (https://www.onlinesbi.com/sbicollect/icollecthome.htm - State Bank Collect- Accept-Terms and Conditions- Proceed-Select State Kerala-Select Type of Institution-Educational Institution- Select - IISER Thiruvananthapuram- Select Payment Category- Stores and Purchase) Quotes should accompany a copy of Transaction slip /Print out OR Bank guarantee equivalent OR Insurance Surety Bond to the EMD value with validity 90 days (should reach before tender due dates). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document with the bid. Under MSE category, only manufacturers for goods and Service. Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

भुगतान/ PAYMENT: आपूर्ति और स्थापना के बाद 30 दिनों के अंदर **आईआईएसईआरटीवीएम द्वारा कोई अग्रिम भुगतान नहीं किया जाएगा।**/ Within 30 days after supply and installation. Advance payment will not be made by IISER TVM

वितरण/ Delivery:	विथुरा कैंपस में वितरित करना है(मुफ्त वितरण)। अगर आयात करें तो स्पष्ट रूप से ब्रेकअप शुल्क के साथ पूर्व-कार्य / एफसीए / सीआईपी शर्तों का उल्लेख करें।/ To be delivered at **Vithura Campus** (Free delivery including unloading charges).
कर एवं कर्तव्य/ TAXES & DUTIES:	At actuals. Indicate taxes and duties. We are partially exempted for customs duty under 51/96 notification
छूट/ Discount:	अगर कोई है तो सूचित करें।/ Indicate, if any.
वितरण अनुसूची/Delivery Schedule:	अति आवश्यक है। अपना अनुसूची उल्लिखित करें।/ Required Immediately. Indicate your schedule
उद्धरण की विधिमान्यता Validity of quote:	90 दिन/90 days

Annexure 3,4,5, and 7: should be enclosed with the offer. **If not, the bid will be summarily rejected.**

Details: Annexure 1: Terms & Conditions, **Annexure 2:** Instructions to Bidder for Online Bid Submission, **Annexure 3:** Certificate by Bidder Annexure **4 :** Tender Acceptance Letter, **Annexure 5**: Certificate of not being blacklisted **Annexure 6 :** Detailed Specifications **Annexure 7**: Check list of documents required.

भवदीय/ Yours Sincerely,

Assistant Registrar
Purchase & Stores

ANNEXURE: 1

निविदाकारों के लिए निर्देश (स्वदेशी)/ INSTRUCTION TO TENDERER

1. कर अन्य कर्तव्य अधिभार निविदा में अलग से दिखाया जाना चाहिए। Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
2. (a) आपका उद्धरण निविदा खोलने की तारीख से 90 दिनों के लिए मान्य होता है। निश्चित कीमत के साथ के संविदा दर को प्राथमिकता दी जाएगी। Your quotation should be valid for a minimum period of 90 days from the date of opening of the Tender. Quotation with firm prices will be preferred.
   (b) निविदा के आमंत्रण में संकेतित इकाइयों के अनुसार कीमत उद्धृत करना है। जब निविदा फॉर्म में उल्लिखित इकाइयों के अलावा संविदा दर दिए जाने पर दो इकाइयों के बीच के संबंध प्रस्तुत किया जाना चाहिए। Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
3. **(a) तैयार माल से आपूर्ति करने वाले निविदाओं** को वरीयता दी जाएगी। वितरण का आधार आईआईएसईआर के साइट पर मुफ्त में है।/ Preference will be given to those tenders offering supplies from ready stocks. The basis of delivery is at IISER site free of cost.
   (b) हमारी भुगतान की शर्तें माल की प्राप्ति और स्वीकृति के 30 दिनों के भीतर होगा। our payment terms are within 30 days of receipt and acceptance of the item at our site.
4. (a) वस्तुओं के सभी उपलब्ध तकनीकी साहित्य, सूचीपत्र और अन्य आंकडे प्रस्ताव के साथ प्रस्तुत किया जाना चाहिए।/All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
   विशेष विवरण/ Specifications: **प्रस्तावित** भंडार हमारे विवरण के अनुरूप होना चाहिए। अगर विचलन है तो निविदाकार अपने उद्धरण में संकेत दिया जाना चाहिए। निविदाकार भंडार के प्रारूप सूचित करना चाहिए और आवश्यक होने पर संविदा दर के साथ सूचीपत्र, तकनीकी साहित्य और नमूने प्रदान करना चाहिए। आवश्यक होने पर परीक्षण प्रमाण पत्र आपूर्ति के साथ अग्रेषित किया जाना चाहिए। निविदाकार को उपयुक्त कारणों के साथ विनिर्देशों में परिवर्तन का सुझाव दे सकता है।/ Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
5. आईआईएसईआर को निम्नतम या किसी भी निविदा को स्वीकार करने के लिए कोई दायित्व नहीं होगा और पूरे या निविदा के किसी हिस्से के स्वीकृति का अधिकार सुरक्षित रखेगा और निविदाकार उद्धृत दरों पर समान की आपूर्ति करना चाहिए।/ IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
6. अगर संवुदा दर में कोई सुधार होने पर इसे प्रमाणित किया जाना चाहिए। सभी राशी शब्दों और आंकड़ों में भी सूचित किया जाना चाहिए। यदि शब्दों और आंकड़ों में उद्धृत राशि के बीच अंतर होने पर शब्दों में उद्धृत राशि प्रबल होगी। संविदा दर में प्रत्येक वस्तु के मूल्य होना चाहिए और कर और कर्तव्यों सहित मूल्य की कुल राशि का स्पष्ट रूप से उल्लेख किया जाना चाहिए।/ Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Quotation must have price for each line item and totaling of the price including taxes and duties should be clearly mentioned.
7. निविदाकार निविदा में अपने बैंकर, कर पंजीकरण, पैन नंबर आदि उल्लिखित करना चाहिए।/ The tenderer should mention the name of his bankers, Tax Registration, PAN number etc. in the tender.
8. निविदा पर हस्ताक्षर करने वाले व्यक्ति बुलाने पर उपस्थित होना चाहिए। The authority of the person signing the tender, if called for, should be produced.
9. IISER being a Govt of India Educational and Research Institute, is exempted from payment of Customs Duty under Notification No. 51/96- Customs dated 23rd July 2009.
10. आपूर्ति की गई भंडार आपूर्ति, स्थापना और कमीशन की तारीख से 1 वर्ष वारंटी में होगा।/ The stores supplied should be covered with minimum of 1 year warranty from the date of supply, installation and commissioning, if not stated otherwise in tender specification.
11. निविदा के आमंत्रण में उल्लिखित के अनुसार धन जमा / बोली सुरक्षा जमा उद्धरण के साथ जमा किया जाना चाहिए। ईएमडी भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान तिरुवनंतपुरम के पक्ष में 90 दिनों के लिए मान्य होगा।/ Earnest Money Deposit/ Bid Security should be submitted along with your quote as mentioned in Invitation for Tender. EMD should be in favour of Indian Institute of Science Education and Research Thiruvananthapuram valid for 90 days.
12. IISER-TVM comply with order No. P-45021/2/2017-PP(BE-11) dated 04 Jun 2020 (Public Procurement/ Preference to Make in India) and its order 2017 revision.
13. LD Clause: LD may be imposed @ 0.5% per week after stipulated delivery period.
14. Award of Contract (AOC) would be issued to the technically qualified lowest bidder.
15. Tender due date would be auto-extended upon non-receipt of sufficient number of bids.
16. If the bidder withdraws or modifies or amends its tender or impairs or derogates from its bid during the bid validity period or if awarded the contract and fails to sign the contract or fails to furnish order acceptance or performance security before the deadline defined by the Institute, they will be suspended for the period of time as decided by the administrative competent authority of IISER Thiruvananthapuram from being eligible to submit bids for contracts floated by the Institute in accordance with GoI MOF Office memorandum NO. F/9/4/2020-PPD dated 12 Nov 2020 and GFR

ANNEXUE: 2
Instructions To Bidder for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
More information useful for submitting online bids on the CPP Portal may be obtained at: https://eprocure.gov.in/eprocure/app.

REGISTRATION

1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
   Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5) Bidders are requested to note that they should necessarily submit their technical & financial bids in PDF format only and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

Annexure 3

CERTIFICATE BY THE BIDDER (FOR TENDERS)
(ON COMPANY LETTER HEAD)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that this bidder is not from such a company or, / if from such a country, has been registered with the Competent Authority (copy of the Registration Certificate enclosed). I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Date:

Place: **Signature with Date and Stamp of the Bidder**

ANNEXURE: 4

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

To, Date:

The Director, Indian Institute of Science Education and Research – Thiruvananthapuram,
Maruthamala P.O, Vithura, Thiruvananthapuram, Kerala -695551, India.

Sub: Acceptance of Terms & Conditions of Tender.
Tender Reference No: _____
Name of Tender / Work: -_____
Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: _____ _____ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.
7. I / We declare the following information provided are correct to the best of my knowledge:

1	Name and Address of the bidder	
2	Manufacturer / Dealer / Agent	
3	Contact Person	
4	Phone	
5	Email	
6	Mobile Number	
7	GST No	
8	PAN No	
9	UTR No / DU No (in case of online transfer of Tender Fee) (if any)	
10	UTR No / DU No (in case of online transfer of EMD)	
11	Warranty, if any	
12	Delivery period	
13	Payment terms	
14	PO to be placed in favour of	

Yours Faithfully,

Date:

Place: **Signature with Date and Stamp of the Bidder**

Annexure 5

CERTIFICATE
(ON COMPANY LETTER HEAD)

I hereby certify that we M/s _____

_____

_____ (name and address of the firm) is neither blacklisted by any Central/ State Government / Public Undertaking/ Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every aspect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

Date:

Place: **Signature with Date and Stamp of the Bidder**

Annexure 6

TECHNICAL SPEICIFCATIONS

Part A. Air handling Unit (1 number):

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 upto 4 single sided racks.
8. Should have built-in safety devices/ alarm system for fault indication.
9. Should have microprocessor based control panel for setting and controlling supply and exhaust air quantity, and monitoring average cage temperature, humidity and pressure.
10. HEPA Filters should be DOP tested. The efficiency level of the filter should be 99.99% to prevent particles ≥0.3micron.
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, around 1meter in a closed environment.
17. Should have the provision to regulate the fan speed automatically.
18. 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.
19. HEPA filter should be H13 or H14 grade and pre-filter should be of grade H4.
20. Provision for system alarm integration with the building management software.
21. Provision for wireless/remote alarm through SMS, data logger, and multiple ventilator connectivity with PC for remote monitoring, control and data download either through LAN or Wi-Fi.
22. Should come with provision for external communication ports.
23. The system should be upgradable in future.
24. Provision to record and save functional data.
25. Touch screen alpha-numeric display 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.

28/10/25

Assistant Registrar
Purchase & Stores

Part B. IVC Racks (2 numbers)

1. Frame structure, supply and exhaust air headers with air distribution system should be of stainless steel above SS 304 quality.
2. Should be provided with four heavy-duty polyphenylsulfone (PPSU) castor wheels with atlest two wheels with lockable/braking mechanism, suitable for long-term use, capable of withstanding repeated autoclave/decontamination cycles, and compatible with epoxy-coated flooring.
3. Each single side rack should accommodate 48 cages.
4. Entire rack with all parts should be easy to clean, disinfect and should be capable of withstanding repeated autoclave/decontamination cycles.
5. The rack must have self-locking system for docking the cages properly.
6. The vendor should provide two rack-to-AHU connecting pipes and one AHU exhaust pipe of more than 5 metres in length, preferably 6 metres, complete with all necessary fittings and accessories for installation.
7. Duct couplers, end caps, cage supply-air nozzles and cage exhaust-air nozzles should be made of special-grade rubber/silicone material, capable of withstanding repeated autoclave cycles and washing without degradation or loss of functionality.
8. Castor wheels with SS 304 casing should be maintenance free, lockable and should not damage the flooring.
9. Plenums for air supply and exhaust should allow equal air distribution.
10. ACH within the cages at all rack levels should not vary by more than ±15% from the mean ACH value and should remain within this range even when up to 50% of the cages are removed from the rack.
11. Then vendor should provide third party validation with certificate.

Part C. IVC Cages (144 in number)

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 500 cm^2.
6. Should have self-locking system onto the rack with a proper docking.
7. Water bottles should be without any 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.

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12. The nozzle should be of high quality (SS 316 grade) and provide perfect sealing once the bottle is placed in position.
13. Water bottles should be made of polysulfone (PSU) and mounted externally on the top cover of the cage. The bottle connection/nozzle should provide a secure, leak-proof seal when inserted into or removed from the cage.
14. Air nozzles should be placed above animal height to prevent stress to the animals.
15. Water bottle port should be with self-closing isolators.
16. Microbiological filters should be third party certified.

Part D. Cage changing station (1 number)

1. Should be suitable to use in GLP standard Lab/Clean Animal facility to change rodent cages.
2. Should be compact in size and overall dimension should not be more than 1400 x 800 x 2000 mm, and should have an adjustable working height.
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. The working height should be adjustable over a suitable range to accommodate operators of different heights and ensure comfortable and ergonomic cage-changing operations.
7. Should ensure protection and should be safe to use during cage changing.
8. There should not be any sharp corners or edges and surface should be clean.
9. Microprocessor driven airflow speed should be adjustable to provide safe working conditions.
10. The Barrier Air Flow Speed should protect the operator from allergens and particles while manipulating cages inside the cabinet.
11. 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 to avoid cross contamination.
12. Should ensure protection to the animals from contamination by minimizing the exposure to aerosols.
13. The incoming and outgoing air should be filtered through a particulate pre-filter (G4 efficiency) and then through an H13/H14 HEPA filter.
14. Filters efficiency should be of laminar air flow grade.
15. Integrity of HEPA should be DOP Tested and should meet ISO standards.
16. Efficiency should be more than 99.50% at 0.3 µm to create a containment level as per ISO 4 standards.
17. 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.
18. 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.

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19. Should be equipped with EC motors and energy consumption, noise (<50db) and vibration should be minimum.
20. Should have LED lighting and two power sockets protected with drip-proof covers
21. Worktop surface of the cage-changing station should be made of autoclavable, scratch-resistant Trespa/high-pressure compact laminate (HPL) or SS 304 grade stainless steel or above, suitable for repeated cleaning, disinfection and animal-house use.
22. Power Supply should be 220-240 V, 50 Hz. AC.
23. Power cord should be at least 4 m length with 5/15 Amp. 3-pin plug.
24. Overall weight should not be more than 200kg.
25. Viewing screen should be made of high-quality, scratch-resistant glass with good optical clarity and should maintain transparency without significant scratching or clouding during prolonged use.
26. Should provide validation certificate and test reports with all parameters.
27. The manufacturer should be ISO certified.
28. 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.
29. Vendor should furnish details of the local service support and response time for a service call during and after the warranty period.
30. The equipment should come with detailed instruction manual.
31. 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.

Part E. Veterinary Hematology Analyzer (1 number)

1. The system shall be a fully automated veterinary hematology analyzer suitable for hematological analysis of mice, rats and other small laboratory animals.
2. The analyzer shall provide a complete CBC with minimum 4-part differential WBC count including lymphocytes, monocytes, granulocytes/neutrophils and eosinophils.
3. The analyzer shall provide RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV/RDW-SD, PLT, MPV, WBC and differential absolute and percentage counts.
4. The system shall provide automated abnormality flags and histograms/scattergrams.
5. Open-tube sample volume shall not exceed 100 µL and micro-sampling volume shall not exceed 20 µL.
6. The analyzer shall be optimized for low-volume samples from mice and other small laboratory animals.
7. The system shall have pre-installed species profiles for mouse, rat, rabbit, guinea pig, hamster, dog and cat, with provision for user-defined profiles.
8. The minimum throughput shall be 40 samples per hour with continuous operation suitable for research laboratory workflows.
9. Reagents shall be ready-to-use, with a minimum shelf life of 24 months at the time of supply and local availability for at least five years.

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10. The system shall be supplied with analyzer, printer, startup reagents, quality-control and calibration materials, UPS with minimum 30-minute backup, software, cables and required accessories.
11. The system shall have a minimum 5-year comprehensive warranty including installation, commissioning, user training and preventive maintenance.
12. Local technical support shall be available with a service response time not exceeding 48 hours.

Part F. Digital Rodent Thermometer with Rectal Probe (1 Number)

1. The system shall be a portable digital thermometer suitable for accurate body-temperature measurement in mice and rats.
2. The temperature measurement range shall be at least 0–50°C, with resolution of 0.1°C or better and accuracy of ±0.1°C or better within the physiological range of rodents.
3. The thermometer shall provide fast response, continuous measurement and a minimum sampling rate of 2 measurements per second.
4. The system shall be supplied with a dedicated reusable rectal probe suitable for adult mice and rats, with a smooth rounded tip and diameter not exceeding 1.5–2.0 mm.
5. Replacement probes shall be commercially available in India or with the vendor.
6. The system shall provide real-time temperature display, hold, maximum/minimum temperature, stabilization indication and low-battery indication.
7. The instrument shall be lightweight, portable, durable and suitable for single-operator use in a laboratory environment.
8. The system shall be supplied complete with thermometer unit, rodent rectal probe, batteries, cables and required accessories.
9. The system shall provide reproducible measurements suitable for repeated and longitudinal studies in mice and rats.
10. The system shall have a minimum 5-year comprehensive warranty with technical support and availability of spare probes and accessories for at least five years.

Part G. Mouse Restrainer (2 numbers)

1. The mouse restrainer shall be specifically designed for tail-vein injection, tail-vein blood collection, intravenous administration and short-term restraint of laboratory mice.
2. The restrainer shall comprise a cylindrical restraining tube, adjustable rear stopper/plunger, tail-access opening and secure locking mechanism.
3. The restrainer shall have a firm and stable base with a suction pad or equivalent mechanism to prevent movement during procedures.
4. The restraining tube shall be made of transparent or translucent impact-resistant polymer, acrylic or polycarbonate to allow visual monitoring of the animal.
5. The design shall allow rapid placement and removal of mice, with a smoothly adjustable and securely lockable rear stopper.

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6. The restrainer shall be suitable for adult mice approximately 15-50 g in body weight and shall have an internal diameter of approximately 28-38 mm or equivalent.
7. The design shall provide full-length tail exposure and unobstructed access to the lateral tail veins for venipuncture and injection.
8. Adequate ventilation shall be provided and the design shall minimize animal stress during restraint.
9. All surfaces and edges shall be smooth and free from sharp projections.
10. The restrainer shall be resistant to routine laboratory disinfectants, easy to clean and suitable for repeated use.

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 providing 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. Hands on training should be provided at the site of installation, free of cost.
9. Sufficient numbers of spare parts such as tubing, gaskets, HEPA filters, air-nozzles for bottles and pre-filters etc. should be provided by the vendor for initial period of three years.
10. The supplier should provide at least two complete set of replacement HEPA filters and pre-filters for each cage changing station and IVC ventilator, unless otherwise specified.
11. The vendor should provide at least 5 years warranty.
12. Post warranty AMC charges for three years should be quoted separately.
13. The vendor should have an authorized local service centre/service support facility in India. Should respond to service complaints within 24 hours, and the equipment should be restored to working condition within a turnaround time of 48-72 hours. wherever feasible.

Commercial Payment Terms and Conditions and Post warranty AMC Payment Terms and Conditions should be uploaded separately.

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Annexure 7

CHECK LIST OF DOCUMENT REQUIRED

SL. No	List of documents required	Enclosed Yes / No
1.	Certificate by the bidder as per Annexure 3 of the tender document	
2.	Tender Acceptance Letter as per Annexure 4 of the tender document	
3.	Certificate by the bidder as per Annexure 5 of the tender document	
4.	Technical Compliance statement with tender specifications	
5.	EMD Details	
6.	Brochure/ Catalogue/ Datasheet	
7.	BoQ	
8.	Statutory Registration Certificates	
9.	Previous purchase orders (if any)	
10.	Tender document duly signed on all pages along with bidders seal.	
11.	Other documents pertaining to technical aspects	
12.	Any other document as provided in technical specifications	