

Notice Inviting Global Tender

Supply and installation of Automatic Cage Washer at the Central Animal Facility, IISc

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



Indian Institute of Science

Central Animal Facility
Indian Institute of Science
Bangalore — 560012

23rd February 2024

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SECTION 1 – Bid Schedule

1	Tender Number	CAF-IISc/CRW/2023-2024
2	Tender date	23 rd February 2024
3	Item description	Automatic Cage and Rack Washer at the Central Animal Facility, IISc
4	Quantity	01 Number (One number)
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	8 th March 2024 till 5.00 pm
8	Date of opening of technical bids	11 th March 2024
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 Original Global Equipment Manufacturer (OEM) or their authorized Indian 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/sea cargo shipped, insured and transported to the Bangalore International Airport/Sea Cargo (CIP/CIF). Necessary custom clearance will be done by IISc, Bangalore, from Bangalore International Airport/Sea Cargo.

G) Customs clearance:

The IISc, Bangalore will furnish the necessary papers for the import and customs 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 Cage & Rack washer

S. No	Description
1	<p>Supply and installation of electrically operated heavy duty, large capacity and hydro spray washer with the capability of washing most of the equipment and materials used in the lab animal facility such as animal cages, lids, trolleys, conventional racks, IVC racks, water bottles used in the care of laboratory animals (mice, rats and rabbits etc.).</p> <p>The whole machine should have exterior stainless covering along with applicable thermal insulation. The washing chamber, technical compartment, panels, spray headers, vertically translating and oscillating manifolds, wash and rinse tank, piping, door panels must be made of AISI 304 stainless steel. Pump housing and impeller, Process valves should be made of 316 stainless steel.</p> <p>It should be able to wash more than 120 standard mouse cages in a single cycle of a maximum of 7 minutes.</p> <p>External Dimension: 2300-2500 mm x 2400-2500 mm x 2500-2600 mm (WxLxH mm)</p> <p>Internal Chamber: 1100-1200 mm x 2100-2400 mm x 2200-2400 mm (WxLxH mm)</p>
2	<p>Washing Chamber: The washing chamber should have minimum dimensions to accommodate the racks of larger size and other large equipment easily for washing/cleaning. In order to avoid dirty traps inside the chamber, no static filters must be integrated in the floor and water vertical manifolds must be integrated in the chamber's frame and not exposed to water coverage. The washing cycle should have minimum 4 phases like, washing with temperature 50–60 degree celcius, dripping, rinsing with 82 degree and steam extraction.</p>
3	<p>Door: This machine should have Single door. The door should be with double-skinned sandwich construction, and tempered glass, and must consist of two 6 mm layers with Polyvinyl butyral film in between. Door (frames, glass and gaskets) to provide 100% airtight application, full vision inside the chamber, and reduced noise and heat transmission when the machine is running. The door opening needs to be provided as per space availability. The door should facilitate the easy handling and management of daily operations smoothly. The appropriate provisions should be present to assure the operator safety during operations. Door should come fitted with the active inflatable gasket to ensure the air-tightness of the chamber during operations, static gasket compression is unacceptable. During a standard cycle the maximum temperature measured on the external glass should not exceed 42°C.</p>
4	<p>Mechanical Core or Technical Compartment: The side of the mechanical core or technical compartment towards left or right side needs to be provided as per the space availability.</p>

5	<p>Monitoring, Control and Data Management System: The machine should have the built-in monitoring system that automatically controls all required process operations and functions. The control system or operator interface should be in place to program and pre-set several different cycles as per various washing requirements. It should be user friendly and allows easy parameters setting/controlling. It should have programmable security access. The machine should have the appropriate data management and retrieval system in place.</p>
6	<p>Spraying System: The machine should come with vertically translating and oscillating manifolds fitted all along the side walls of the chamber, with wash and rinse nozzles and the tilting of the arms should cover all the wash surfaces. The “WASH & RINSE” should have a separate circuit and separate self-draining nozzles to avoid cross-contamination. Rinse and Washing circuits must be nested within a single pipe in order to reduce the heat losses and nozzles must be AISI 304.</p>
7	<p>Water Tanks: Separate wash and rinse tank (respectively less than 135 L and 190 L in volume). It must include the maintenance and check from the top, such opening must be big enough to be comparable with the tank footprint. Equipped with level control, automatic fill, overflow safety and temperature control. Wash water tanks with radius corners and bottom slope to outlet. All tanks to be properly insulated.</p>
8	<p>Wash Pump: It should deliver the water from the wash tank to the washing circuit of the jet-spray manifold under inverter management technology for energy efficiency and process flexibility. It should be able to produce minimum 1.6 bar pressure at wash nozzles.</p> <p>Rinse Pump: It should able to deliver fresh clean and pressurised water to rinse circuit. Also, it should able to return the used rinse water to wash tank for re-use and conservation of heat load. The Pump has the capability to produce 3.1 bar pressure at the rinse circuit.</p>
9	<p>Self-Cleaning Filter: Tool-free self-cleaning in line wash water filtering system should be available and twice back-flushed at the end of each washing phase to ensure the debris removal from the mesh during the self-flushing phase. No static filters in the floor’s grid in order to avoid deposition of bedding inside the chamber. The self-cleaning filter should be equipped with safety electro-locks to hold in position the filter during operation. The Filter should be of stainless steel wedge wire with mesh perforation smaller than wash-jet orifices.</p>
10	<p>Detergent Dosing System: The machine should be equipped with a Peristaltic dosage pump type. Detergent dosing system with independent pumps for acid and alkaline washes. It should be equipped with filter, check valve and sensor to detect level of chemical in the drums</p>
11	<p>Bottle Washing System: The machine should come with a dedicated set-up for bottle washing and allows washing of the bottles crates on the required presentation rack/carts. The machine shall be free from any additional lock system for bottle washing. The machine should come with a dedicated two Presentation Racks with minimum holding capacity of 8 nos bottle crates (each crate should have minimum 18 bottles) each rack and processed using the dedicated bottle cycle. Full control on the main arms positioning and trajectories, without the need of a dedicated water line, allowing a precise cleaning and rinsing of bottles.</p>

12	<p>Safety System: The machine should have the personal safety system in place such as emergency bars/stop inside the chamber and emergency switches outside the chamber as an integrated option.</p> <p>Safety Door Switch</p> <p>Requires doors to be completely closed to start or continue operation.</p> <p>Stops operation if door is opened during operation.</p> <p>Electro-mechanic pumps shut off when door open.</p> <p>Door gaskets keep inflated in case of a sudden utility interruptions.</p> <p>Emergency Stop</p> <p>External emergency push buttons near each door to stop operation.</p> <p>Internal emergency devices: one per each chamber side, full chamber length.</p> <p>When internal emergency is triggered, system must allow free and easy exit with no additional steps required to release doors (gasket deflating and door locker release).</p> <p>Dedicated UPS device for granting internal emergency management even in case of power failure.</p>
13	Noise level generated by the machine should be less than 70 decibels.
14	Electricity requirements should be Approx. 70KW and the cleaning cycle should consume less than 50 Litres water per cycle.
15	Should provide the details about the Wash cycles validation support and accomplishment.
16	The required wash cycle should be completed in 7 minutes and also specify the different cycle stages time as applicable for this machine
17	Should mention or provide the applicable international standard certifications for quality, safety and environmental impact for this machine.
18	Bid should include all the required accessories required for the machine to maximize the wash load like presentation racks (dedicated/universal/baby for cages, lids etc.), bottle processing racks/carts, baskets/crates and other accessories as applicable. Presentation racks should be able to accommodate different size of cages, tops, grills.
19	<p>The following documentation should be included along with the machine:</p> <ul style="list-style-type: none"> a. User and Maintenance Manual b. P&I Diagram c. Pneumatic diagram d. Wiring Diagram
20	The vendor should specify and provide full validation documents (IQ, OQ, PQ etc.) as applicable.
21	Should indicate the year in which the model was introduced in the market and confirm whether the spares and consumables for the machine would be available for a minimum period of next 10 years.
22	Detailed literatures with technical specifications and features for the machine and all the

	related accessories to be enclosed with the offer.
23	Prospective bidders must visit the site and offer suitable bids in the required format along with literatures.
24	Manufacturer should have standard certifications (ISO 9001 and ISO 14001).
25	The machine should have the applicable International standards for quality, safety and environmental impact such as AK-KAB or equivalent standards.
26	Should ensure that the specifications mentioned in the offers must cover all the parameters listed in our enquiry and should attach the supporting documents. Unspecified parameter will be treated as non-compliant.
27	Installation testing, checking of specifications and the validation should be done at the specified area. Training of users to be done free of cost at the site.
28	Pre-installation and utility requirements for installation and running the system should be clearly mentioned.
29	Availability of local service support at Bangalore and response time for a service call during and after the warranty to be specified
30	List of users in India and abroad of the Similar Models (Cage & Rack Washers) as the one(s) offered along with the names, addresses, telephone numbers and mail ID's to be enclosed separately. There should be a minimum of 5 reference installations in India.
31	Technical presentation and Demo on the systems offered is to be made on request from the Institute. In case any of the invited parties fail to demonstrate their compliance as per the specifications, the party will be treated as disqualified.

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 Automatic Cage and Rack Washer 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 Automatic cage washer.

(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 Automatic Cage and Rack Washer 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 Automatic Cage and Rack Washer 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.