



F.No. I-14/EF/Speed Breeding Facility/GeM/2025

Dated: 01/03/2025

TENDER NOTICE

Online tender under two bid system (Commercial /Technical bids) is invited by the Director, ICAR-IIRR from the reputed Manufacturers /Dealers/ Foreign Research Institute/CPWD/Central Govt./State Govt./PSUs/Autonomous bodies in India in the line for the Establishment of item namely **“Speed Breeding (Rapid Generation Advancement) Facility for Genome Editing Research”** at ICAR -IIRR, Hyderabad.

The details of the tender is as under:

1. Name of the equipment/item: **“Speed Breeding (Rapid generation advancement) Facility for Genome Editing Research” at IIRR, Hyderabad.** (As per detailed specification attached at **Annexure - A**)
2. Establishing Speed Breeding (Rapid generation advancement) facility for genome editing research at ICAR - IIRR, Hyderabad.
3. Pre-bid conference is scheduled on 04/03/2025 at 11.00 AM in Conference Room, IIRR, Hyderabad-500030.
4. Submission of tender documents: As per GeM tender document.
5. Last date of Tender - 22/03/2025 at 3.00 PM
6. Opening of the technical bid of tender – 22/03/2025 at 4.00 P.M
7. Earnest Money Deposit: Rs. 12,00,000/- (Rupees twelve lakhs only). The bid security may be accepted in the form of Account Payee Demand Draft, Fixed deposit receipt, Banker’s Cheque, or Bank Guarantee from any of the commercial banks in favor of the Director, ICAR-Indian Institute of Rice Research, Hyderabad. (To be enclosed with Technical bid) before the closing date of the tender.
8. Firms registered with the Central Purchase Organization/NSIC/MSME only are exempted from submitting EMD if they have experience in the relevant field of Speed Breeding (proof of registration must be attached, without which it will not be considered). Except for Micro and Small Enterprises (MSEs) as defined in the MSE Procurement policy issued by the Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department of Start-ups as recognized by Department of Industrial Policy and Promotion (DIPP).
9. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for ICAR- IIRR.

Chief Administrative Officer

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SCHEDULE OF TENDER
(OPEN TENDER ENQUIRY)
ICAR - IRR, Hyderabad – 500030

For and on behalf of the Director, ICAR - IRR sealed tenders are invited in Two Bid System (Technical and Commercial) on the prescribed forms in Chapters IV and V of the tender document for the purchase of the following stores as detailed in this schedule to tender. However, it may be noted that it will be at the discretion of the IRR authority whether to purchase the equipment below mentioned.

| Description of stores required | |
|---|--------------------------------|
| Supply and Installation of Speed Breeding facilities, details as per Annexure – A. | As given in the specification. |

1. This Tender Enquiry has the following Chapters and Annexures.

Schedule of Tender

| | |
|--------------|--|
| Chapter I : | Instructions to Bidders |
| Chapter II: | Conditions of Tender /Contract |
| Chapter III: | Schedule of Requirement |
| Chapter IV: | Proforma for Technical Bid |
| Chapter V: | Proforma for financial bid |
| Annexure -I | Performance Statement for last 3 years |
| Annexure-II | Certificate for compliance of instructions |
| Annexure-III | Checklist for tenderers |

2. Tenderers are requested to study the tender documents completely and ensure all documents and Annexures are correctly filled in, signed and stamped where applicable and then submit your offer.
3. Tenderers are advised to carefully go through all the conditions and documents attached with this tender inquiry, before filling in the tender. All tender documents attached with the tender are sacrosanct for considering any offer as a complete offer. All tender documents must be duly completed, signed by authorized signatory on each page and returned with the offer (from Page 01 to 16).
4. This tender is not transferable.

Signature of Tenderer with office seal

Chief Administrative Officer

CHAPTER-I
Instructions to Bidders
(THIS TENDER SET IS NOT TRANSFERABLE)

1. Name of Stores : Online procurement through GeM – **Establishment of Speed Breeding (Rapid generation advancement facility for the Genome Editing Research at ICAR-IIRR, Hyderabad.**
Tender Cost : As per GeM norms.
2. Last Date for submission of Tender document : **22/03/2025 at 3.00 PM**
Opening of Technical Bid : **22/03/2025 at 4.00 PM**
3. Place of Submission of Tender: document: GeM Portal
 - i. The ICAR-IIRR will not be responsible for tenders submitted at any place other than GeM. Tenders not received within the due date will not be considered under any circumstances or for any reason.
 - ii. Tenderers are requested to study the tender documents completely and ensure all documents, forms and annexure to the tender are completely and correctly filled in, signed and stamped where applicable, all necessary literature, brochures and pamphlets have been attached and then to submit their offer. An incomplete tender offer shall be rejected straightway without any reference to the tenderers. Leaving any column not filled in or with cuttings will lead to rejection of the tender
4. Earnest Money Deposit (EMD) and validity : Rs. 12.00 lakhs (Rupees twelve lakhs only) of the bid security may be accepted in the form of Account Payee Demand Draft, Fixed deposit receipt, Banker's Cheque or Bank Guarantee from any of the commercial banks in favour of the Director, IIRR payable at Hyderabad before the last date of submission of bid.
5. Bid Offer validity : Six months from date of opening of tender. In the absence of indication in the tender documents submitted, of the date up to which the offer has been kept valid, it will be taken that the offer will remain open for acceptance for the period specified in the Schedule to Tender.
6. Extension of validity & Earnest money : If the validity of the tender is extended, the validity of the Earnest Money will also have to be suitably extended by the tenderer failing which their tender shall not be considered by the purchaser after the expiry of the said period.
7. Eligibility for Responding :
 - i) Only those firms should respond who are the manufacturers or authorized dealers/agents of the stores specified in the tender specifications.
 - ii) The foreign manufacturers of the tendered stores will have to specify in the tender document, details of the sales service to be provided after expiry of warranty period.

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8. Delivery Required By : For Indian manufacturer - Within 180 days from the Date of issue of award letter or as specified in the supply order.
9. Terms of Delivery : For Indian\manufacturer/suppliers: For IIRR, Hyderabad.
Inspection after Receipt of Goods: The inspection will be done by the Technical Committee in the presence of firms representative. The successful tender will have to provide at his own cost and arrange technically qualified personnel at the consignee's location for joint inspection. These personnel must be able to unpack, assemble and demonstrate the use of the equipment fully and identify each Part/Machine supplied. Any consumables that are essential will be provided by the supplier free of cost. In case of receipt of materials in damaged condition, the suppliers will have to arrange the replacement of goods free of cost. All expenses in this regard will be borne by the supplier.
Purchaser : Director, ICAR-IIRR, Hyderabad – 500030
All damages which may occur as a result of defective packing shall be borne by the seller.
10. Compliance Statement : The firms must submit a compliance statement cum technical bid in the format given in Chapter -IV failing which their offer will be treated as incomplete and is liable to be rejected.
11. Earnest /Security Deposit : Rs.12,00,000/- (Rupees twelve lakhs only) to be deposited along with Technical bid in the form of Crossed Demand Draft/Pay Order/ Fixed Deposit receipt/ Bank Guarantee in the name of the Director, IIRR from any Commercial Bank payable at Hyderabad. No other form of deposit will be accepted.
In the absence of any indication in the tender documents submitted, of the date up to which the offer has been kept valid, it will be taken that the offer will remain open for acceptance for the period specified in the Schedule to Tender.
12. Guarantee/Warranty : Comprehensive on-site warranty i.e. 36 months is required. Warranty Term period will start from the date of installation of items. In case at installation stores/part of stores are found defective /damaged during or after delivery to consignee, the suppliers will replace or repair the store under warranty at consignee's location in India free of cost or if any case it is required to sent back to the foreign manufacturer. Bank Guarantee equivalent to the cost of equipment is required to be submitted before lifting the store. All expenses in this regard will be borne by the supplier.
13. Performance Security : The successful bidder will have to submit a Performance security of equivalent to 5 % of the Contract /Order value before the issue of award letter valid till 60 days + the period of expiry of the warranty/ Guarantee period in shape of crossed Demand Draft/Pay order/ Fixed Deposit Receipt/ Bank Guarantee from a commercial bank in favour of the Director, IIRR, Hyderabad. The performance security will remain valid till the expiry of the warranty period. This will be released after completion of the warranty period.

14. Liquidated Damages : In case the firm does not complete the supply within the laid down agreed Security delivery period as per contract, liquidated damages will be charged @ 0.5% per week or part thereof subject to a maximum of 5% of the contract value. However, the Institute reserves the right to either further extend or cancel the contract after the expiry of the delivery date and recover the liquidated damages from the dues of the firm or by legal means.
15. Dispute settlement : The dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & court at Hyderabad. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding to both parties (Supplier and Purchaser).
16. Submission of the : The tenderers must submit the tenders in **Two Bid System** The price bid should be submitted in the BOQ provided on GeM Portal.
17. Two Bid System :
i) Rates for optional item if only should be submitted as per Chapter -V in a separate sealed cover along with the technical details/bid as per Chapter -IV in a separate sealed cover along with detailed specifications of the store offered supported by leaflets and brochure, if any.
ii) Rates of optional items can be provided by firm, if they want to. It will be submitted in a sealed envelope. EMD must be submitted in sealed envelope.
iii) Both the above-mentioned covers should be sealed separately and thereafter be kept in one big cover and again sealed.
iv) This big cover should also be superscribed with the Tender No., Stores and date of Tender opening.
v) Composite bid i.e. rates indicated in the technical bid openly in tender is liable to be ignored.
vi) Only the first cover i.e. Technical Bid shall be opened on the date of tender opening.
vii) Price bids of only those offers, that will be technically qualified, will be opened on Gem Portal.
viii) Technical comparative statement for technically qualified firms will be uploaded on the Gem portal. Any firm having any representation can submit through the GeM portal.
18. Onsite Maintenance : The successful bidder has to depute his team consisting of Maintenance Engineer (1) and Support Staff (1) at onsite for functioning /upkeep and maintenance for a period of 36 months i.e. during the warranty period. No separate charges shall be payable for the onsite maintenance team including staff and consumables/spare parts/equipment.

A. TECHNICAL BID

- a) **FIRST COVER should contain the following:**
i) Tender documents duly completed and signed but **WITHOUT INDICATING THE RATE QUOTED.**

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- ii) The technical details of the models offered along with the supporting original technical literature, leaflets, brochures etc. as per Chapter-IV.
- iii) Earnest Money: Rs. 12,00,000/- (Rupees Twelve lakhs only).
- iv) Details of supplies of similar item as per Annexure-A along with copies of supply orders.
- v) Latest income tax clearance certificate /copy of PAN card/TIN.
- vi) Latest GST clearance certificate.
- vii) Technical bulletin with specifications clearly stated with model.

b) **SECOND COVER should contain the following:**

- i) Details of rates, taxes, duties, and discounts, if any, quoted by the bidder, should be submitted as per Chapter-V.
- ii) Any documents in support of the price bid.
- iii) For Indian manufacturers rate should be at F.O.R. destination.

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NOTE: a) The word TECHNICAL BID should be written clearly and prominently on the first cover along with the tender number, name of stores and date of opening. Similarly, the word PRICE BID should be written clearly and prominently on the second envelop along with the Tender Number, Name of Store.

b) Full name and status of the person signing the tender documents must be clearly mentioned in the Tenders.

18. Evaluation of the Proposal :

A two-stage procedure will normally be adopted:

i) Stage-I:

Technical Evaluation

- a) Evaluation of Technical Bids to assess their suitability against the laid down parameters.
- b) Tenderers must ensure that they enclose all original technical literature and detailed documentary proofs that specifically bring out the compliance of the equipment being offered against the specifications. If necessary the Tenderers may be directed to give a presentation for evaluation by a technical committee constituted for the purpose.
- c) In case it is not possible to verify compliance of items as per technical bid due to lack of adequate documents, in original no reference will be made to tenderer and the bid will not be considered further and treated as cancelled.

ii) Stage-II:

Financial Evaluation

- a) The price bids of only those firms found meeting the laid down specifications at stage I shall be opened, evaluated and considered further.
- iii) It is in the tenderers interest to include all relevant and detailed technical data as supporting documents along with their bid.

19. Mode of Payment :

A. FOR INDIGENOUS SUPPLIES:

Payment on running bills basis after supply, satisfactory installation, commissioning and performance of the equipment at Hyderabad and after certification by our Scientists concerned/intender and Technical Evaluation Committee, will be made as per below schedule. Payment release will be against running bills submissions as under:

1. 15% against 1st RA bill on completion of Plinth Level completion of first project milestone.
2. 15 % against 2nd RA bill on completion of PEB steel structure and supply of cladding PUF panel and pre-coated sheets (against completion of 2nd project milestone).
3. 20 % against 3rd RA bill on completion of covering, floor C.C. and supply of HVAC and electric items (against completion of 3rd project milestone).
4. 20 % at the time of delivery of imported lights, instruments, control system, and benching system (against completion of 4th project milestone).
5. 30 % after completion of work and submission of handover documents and bill certification with measurement sheet (against completion of 5th project milestone).

A legal agreement/contract shall be executed with the contractor/firm by the Institute before installation of all/any type of instrument/machine as per the instructions of the Indian Council of Agricultural Research (ICAR).

- i. Training: The Tenderers shall provide training to the user as per the terms & conditions of the contract as has been specified in Technical & Financial Bids free of cost at the time of installation/commission of equipment at the consignees/users location. As specified by the purchaser. All expenses in this regard will be borne by the supplier.
- ii. Insurance: As applicable in the case of imported goods.
For indigenous item it will be the responsibility of the supplier to supply the material in good condition on FOR basis without involving the risk of the purchaser.

CHAPTER-II CONDITIONS OF TENDER/CONTRACT

1. All Annexures, attached with the Tender should be duly filled in and supported with requisite documents for considering any offer as a complete offer.
2. Director, IRR, Hyderabad, reserves the right to cancel/reject any or all the tenders without assigning any reason.
3. Earnest Money Deposit of Rs. 12,00,000/- (Rupees twelve lakhs only) must be deposited in the form of crossed Demand Draft/Pay Order / fixed deposit receipt/ Bank Guarantee in favour of the Director, IRR from any Commercial Bank payable at Hyderabad. No other form of deposit will be accepted. Technical bid without supported with earnest money, therefore will be rejected.
4. There will be no exemption for paying earnest money. However, Firms registered with the Central Purchase Organization/NSIC only are exempt from submitting EMD (proof of registration must be attached therefor without which it will not be considered).
 - a) No interest shall be payable by the purchaser on the EM deposited by the tenderer.
 - b) The EM deposited is liable to be forfeited if the tenderer withdraws or amends impairs or derogates from the tender in any respect within the period of validity of his tender.
 - c) If the successful tenderer fails to furnish the performance security as required in the contract within the stipulated period, the Earnest Money shall be liable to be forfeited by the purchaser.
 - d) EMD of the unsuccessful tenders shall be returned after finalization of the tender.

5. GUARANTEE/WARRANTY

- I. Except otherwise provided in the invitation to tender the contractor hereby declares that the goods/stores/articles/equipment sold/supplies to the purchaser/consignee under this contract shall be of the best quality and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars mentioned/contained in the contract. The contractor hereby guarantees that the said goods/stores/articles would continue to confirm to the description and quality aforesaid for a period of 36 months from the date of receipt of goods/articles/equipment in good condition at site by the consignees in case of supply contract and 36 months from the date of installation and satisfactory taking over of the goods/stores/articles/equipment at site by consignee where installation and commission is involved and notwithstanding the fact that the purchase /inspection authority has inspected and/or approved the said goods/stores/articles equipment or such if during the 36 months the said goods/stores/articles/equipment be discovered not to confirm to the description and quality aforesaid or not giving satisfactory performance or have deteriorated and the decision of the purchase /consignee in that behalf shall be final and binding on the contractor/seller and the purchaser shall be entitled to call upon the contractor/seller to rectify the goods/stores/articles/equipment or such specified period as may be allowed by the purchaser in his discretion on application made thereof by the contractor/seller, and in such an event, the above period shall apply to the goods/stores/articles/equipment rectified from the date of rectification mentioned in the warranty thereof, otherwise the contractor/seller shall pay the purchaser such compensation as may arise by reason of the breach of warranty therein contained. Notwithstanding anywhere else mentioned to the contrary in this document, 9 of 16 of the bids would be evaluated on the price of the equipment and accessories, charges including AMC/maintenance for the evaluation of the financial/commercial bids.

- II. Guarantee that they will supply the spare parts, if and when required on an agreed basis for an agreed price. The agreed basis could be and include but without limitation an agreed discount on the catalogue price or an agreed percentage of profit on landed cost.
- III. Warranty to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment so that the later may undertake the balance of lifetime requirements.

6. AMC of Equipment:

- I. After the warranty/Guarantee term of the initial 3 years is over, the firm should mention the charges of AMC at least for next three years separately. It will be submitted along with second cover i.e optional item cover.
- II. The successful bidder has to depute his team consisting of Maintenance Engineer (1) and Support Staff (1) at onsite for functioning /upkeep and maintenance for a period of 36 months i.e. during the warranty period. No separate charges shall be payable for the onsite maintenance team including staff and consumables/spare parts/equipments.
NOTE: -In case of any discrepancy in the period of and/or AMC mentioned anywhere else in this Tender document, the stipulations as mentioned in chapter III (specification of the equipment/ item to be purchased) would prevail.

7. The bidder shall necessarily be a legal valid entity either in the form of a registered firm or Limited company or a Private Limited Company registered under the Indian Companies Act, 1956 or sole proprietorship or country of origin.
8. The Bidder should have registered with (the Department of Scientific and Industrial Research (DSIR) Govt. of India, Documentary proof should be attached.
9. An understanding (Self Certificate) is to be submitted that the Organization has not been blacklisted during the last 3 years by any central/state Government Department/organization/Autonomous Body/PSU etc.
10. Joint Venture / Collaboration for the said project is not allowed.
11. The Bidder should quote for all items of the tender. Any tender for part item will be rejected out rightly.
12. Bidders who meet the criteria given above are subject to be disqualified if they have made untrue or false representation in the forms, statements, and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc.
13. Financial bids will be opened/considered only for the bidders who have qualified in the essential technical criteria/bid.
14. **The detailed breakup of the Financial Bid as per the Area measurements indicated at Annexure-A of page No. 19 may be furnished separately in a sealed cover and the same may be attached along with BoQ on GeM portal.**

15. Penalty for use of undue influence:

The seller should undertake that he has not given offered or promised to give directly or indirectly any gift, consideration, reward, commission, fees brokerage of inducement to any person in service of the Purchaser or otherwise in procuring, the contract or forbearing top do or for having done or for borne to do any act in relation or execution of the contract or any other contracts with the Institute for showing or for bearing to show favour or disfavor to any person in relation to the contract or any other contract in the IIRR. Any breach of the aforesaid undertaking by the seller or

any one employed by him or acting his behalf whether with or without the knowledge the seller or the commission of any offers by the seller or any one employed or acting on his behalf, as defined in Chapter-IX of the IPC, 1860 or the Prevention of Corruption Act, 1947 or any other Act enacted for the Prevention of Corruption shall entitle the purchaser to cancel the contract and all or any other contract with the Institute seller and recover from the seller the amount of any loss arising from such cancellation. A decision of the purchaser or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the seller. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the seller towards any officer /employee of the purchaser or to any other person in a position to influence any officer /employees of the purchaser for showing any favour in relation to this or any other contract shall render.

16. Laws governing the contracts:

The contracts shall be governed by the laws of India for the time being in force. The contract shall be interpreted in accordance with these laws.

17. Jurisdiction of Court:

The court of Hyderabad shall have a Jurisdiction to decide any dispute arising out of or in respect of the contract.

18. Force Majeure Clause:

The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, and floods. Epidemics, quarantine restrictions, strikes, lockout, or any act of war. Notice of the happening of any such event is given by either party to the other within 15 days from the date of occurring thereof. However either party at its discretion can terminate the contract in such cases.

19. Termination of contracts:

- I. Time shall be the essence of the contract. The purchaser shall have the right to terminate the contract without any notice in part or in full in any of the following cases.
 - a) The delivery of the material is delayed for causes not attributed to Force Majeure after the scheduled date of delivery.
 - b) The seller is declared bankrupt or becomes insolvent.
 - c) The delivery of material is delayed due to causes of Force Majeure by more than reasonable time.
 - d) In case Performance Security is not furnished within the time period specified by the purchaser.
- II. Supply in the case of successful Tenderer should strictly confirm to the specifications of the equipment being purchased.
- III. Any change in Address /Telephone/Fax/e-mail of the tenderer should immediately be informed. The state of non-communication by the firm will make the offer liable for rejection.

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20. The successful bidder will have to provide the original proforma invoice from the foreign principal (duly signed in ink), in case of imported item/equipment, within 15 days of the date of receipt of purchase order, otherwise the purchase order will automatically stand cancelled without any further communication.

21. Govt. Regulations:

It shall also be confirmed that there are no Govt. restrictions or limitations in the country of the supplier or countries from which sub-components are being procured and/or for the export of any part of the system being supplied. Supplies/Contracts shall provide a certificate this effect.

22. Late /Delayed tenders shall not be considered at all. These will be returned to the firm as it is at their expense. Post tender revision/correction shall also not be considered.

23. Acceptance or rejection of offer:

The Director, ICAR-IIRR reserves the right to accept or reject any tender in part or full without assigning any reason thereof. The successful bidder should submit order acceptance letter within 15 days from the date of issue.

24. Page Numbering & Signatures:

Every page of the tender must be numbered and signed by the authorized signatory giving his/her name and designation below the signature.

Signature of Tenderer with office seal

Chief Administrative Officer

CHAPTER-III
ICAR - IRR, Hyderabad – 500030

Specification of the equipment/item (in detail) to be purchased.

| | | |
|---|--|--|
| 1 | As per Annexure “A” as per Conceptual Layout and Specifications | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

Signature of Tenderer with office seal

Chief Administrative Officer

CHAPTER-IV
ICAR- IIRR, Hyderabad – 500030

Technical Bids
(To be sealed in separate cover)

Technical Bid evaluation sheet for the Specification of the equipment/ item (in detail)
to be purchased

| S. No | Essential Criteria | Whether complied with YES/NO | If yes, please Tech literature of the equipment duly printed & clearly specify page No. of Bulletin which specifically confirm this | If no, attach deviation statement | Remarks (if any) |
|-------|--|------------------------------|---|-----------------------------------|------------------|
| 1. | The Bidder should have completed at least 3 project of establishing the fully climate-controlled speed breeding facility from initial stage to till project completion with any Foreign Research Institute/CPWD/Central Govt./State Govt./PSUs/Autonomous bodies in India. List of projects with purchase order and completion certificate issued by the client. | | | | |
| 2. | The Bidder/Applicant should have registered with valid ISO Certifications like ISO 45001:2018, ISO 9001:2015 & ISO 14001:2015. | | | | |
| 3. | The Bidder/Applicant should have registered with PF & ESIC Govt. of India, Documentary proof should be attached. | | | | |
| 4. | The Bidder must submit Purchase Orders for the establishment of Speed Breeding Facility in Government/State Government/Autonomous Bodies in India. One order costing more than Rs.5.00 crore or Two orders each costing more than Rs. 2.50 crore | | | | |
| 5. | Performance Statement for last 3 years as per Annexure-I | | | | |
| 6. | The Applicant must be a legal entity like Private Limited/Public Limited/Government Registered Company registered under the Companies Act, Limited Liability Partnership (LLP) under the Partnership Act, Partnership Firm, Societies Registration Act, etc. The agency/s must have valid PAN card and GST Registration. | | | | |
| 7. | The bidder shall have Annual turnover for the last three financial (2021-22, 2022-23 & 2023-24) years, ending on 31 March 2024, should not be less than INR 10 Crores. The copies of the Profit & Loss statement also to be provided. The bidder should not be in loss in the last 03 financial years. The Turnover certificate duly signed & stamped by Chartered Accountant. | | | | |
| 8. | The Bidder/Applicant should provide ITR (Income Tax Return) for last three financial (2021-22, 2022-23 & 2023-24) years. | | | | |

Note: All the bidders are requested to provide true statements in the columns. Concealing of facts will result into rejection of the tender completely. No communication will be made in this regard.

Signature of Tenderer with office seal

CHAPTER-V

ICAR- IIRR, Hyderabad – 500030

PROFORMA FOR PRICE BID FOR OPTIONAL ITEMS ONLY

(Compulsory to be filled up with details by the bidder & sealed in separate cover)

Tender Inviting Authority:

Contract No:

| Name of the Bidder/ Bidding Firm/ Company: | | | | | | | |
|---|--|----------------------------|--|---------------------------------------|---|------------------------------|----------------------|
| PRICE SCHEDULE (DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only) | | | | | | | |
| NUMBER # | TEXT # | NUMBER # | NUMBER # | NUMBER | NUMBER # | TEXT # | Grand Total in words |
| Sl. No. | Item Description | Quantities /Number of Jobs | Enter for bidder of each job BASIC RATE In Figures To be entered by the Bidder in Rs. P | GST Amount in INR Rs. P | TOTAL AMOUNT With Taxes Rs. P | TOTAL AMOUNT In Words | |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
| 1.00 | Supply and Installation of Speed Breeding Facility details as per Annexure "A" | 01 | | | | | |
| | | Total in Figures | | | | | |
| Quoted Rate in Words | | | | | | | |

Note: Financial bid without optional items should be quoted in the BOQ in Gem portal. Further, sealed cover along with the technical bid in separate envelope for optional items must be submitted to office before the last date of submission of tender.

| | | |
|---|--|--|
| I) Ex factory price offer (excluding agency commission, to be invariably separately shown and if nothing is claimed reasons thereof must be indicated failing which the bid will not be considered) | | |
| II) Training Cost, if any | | |
| Packaging & handling charges | | |
| FOB Price excluding agency commission | | |
| Any payment to be paid in Indian Rupees towards agency commission, supply of Indian made item and other charges like GST. | | |
| Name of the items: | | |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| Total | | |

*Components to be supplied locally to be clearly indicated.

Signature of Tenderer with office seal

Annexure-I

PERFORMANCE STATEMENT FOR LAST 3 YEARS

| S. No. | Name of the items | Name of the office by whom order was placed | Order No. & date (Please enclose copy of supply orders) | Value of supply order | Delivered in time or not | If not please specify the reason | Attach satisfactory working report from each office (Yes/No) |
|--------|-------------------|---|---|-----------------------|--------------------------|----------------------------------|--|
| | | | | | | | |

Signature of Tenderer with office seal

CERTIFICATE TO BE SIGNED BY THE TENDERER

CERTIFICATE

It is certified that I have read and understood and will comply with all instructions contained in the tender inquiry and its schedule. All pages of schedule to tender from page _____ to _____ have been filled properly and signed.

Signature of tenderer:

Name in block letters:

Name of firm:

Full address:

i) Telephone No. _____

ii) Mobile No. _____

iii) Fax No. _____

iv) Email id _____

v) Website _____

Signature of Tenderer with office seal

Checklist for Tenderers

Before submission of tender documents, Tenderers should check they have complied with the following requirements

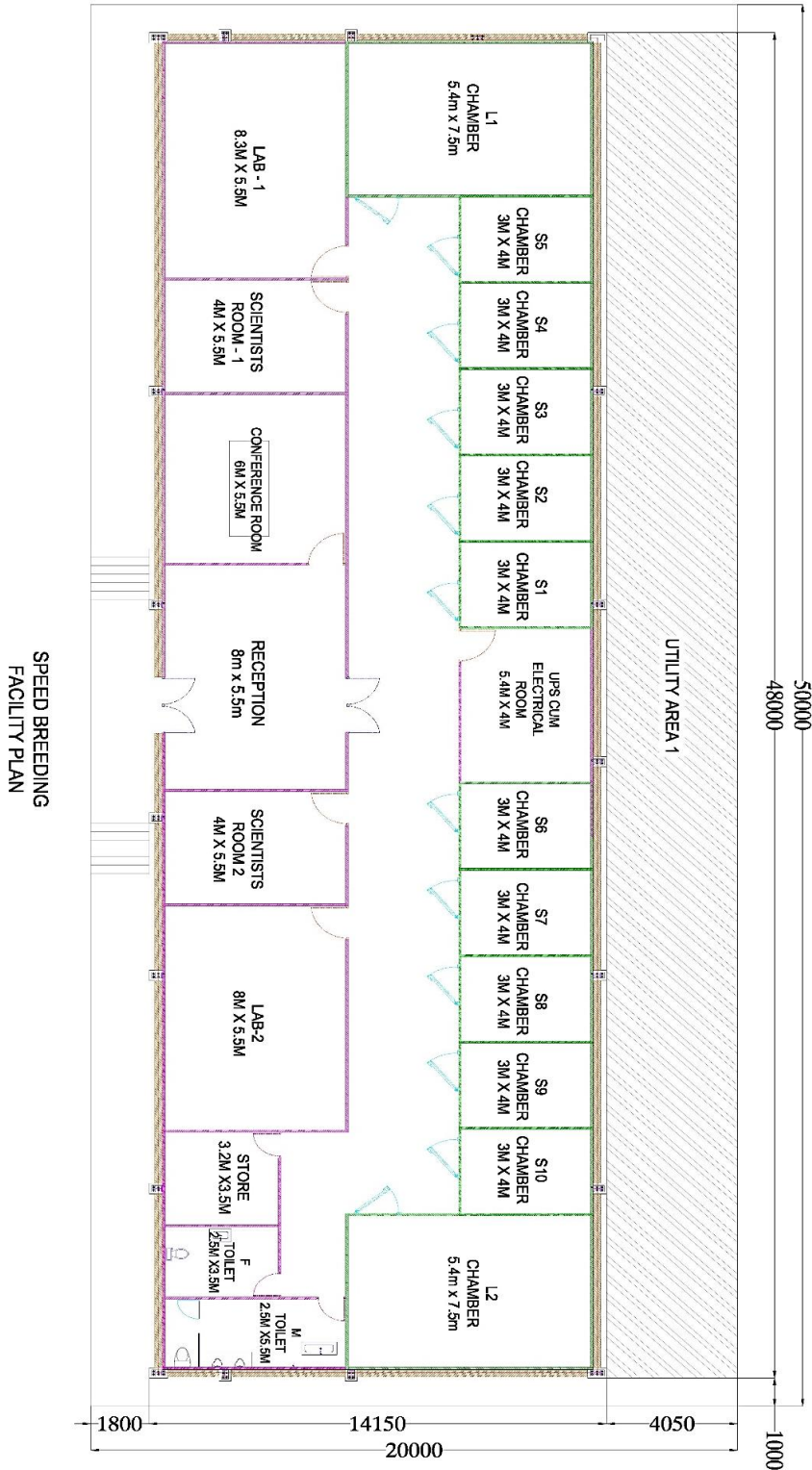
| Sl. No. | Requirements to be checked before submission of the tender | Compiled (Please indicate) <u>Yes</u> after complying with the requirement) |
|----------------|---|--|
| 1. | Earnest money Deposit (EMD) has been enclosed. | |
| 2. | Complete tender documents have been enclosed, after signature & stamping on ALL pages. | |
| 3. | Signatures of witnesses with full names and addresses have been added whenever required on tender document. | |
| 4. | The proposal has been submitted in two bid system – Technical Bid & separate price Bid as per tender enquiry. | |
| 5. | Offer validity as required in the tender has been accepted & clearly mentioned in the tender document. | |
| 6. | Delivery Terms & Period as per tender have been accepted and mentioned in tender. | |
| 7. | Payment Terms as per tender have been accepted and mentioned in tender. | |
| 8. | The compliance statement as per chapter-IV has been enclosed along with supporting technical documents /proof for each point/parameter clearly showing it is complied with or not. | |
| 9. | Performance statement for 3 years as required in tender, in the laid down format as per annexure-I, has been enclosed. If not, reasons be specifically given in writing. | |
| 10. | Warranty terms as per tender accepted. | |
| 11. | Annexure II regarding compliance of all conditions mentioned in the tender form has been enclosed. | |
| 12. | The status of the tenderer has been clearly written in the tender – manufacturer or manufactures authorized agent. If an authorized agent, valid latest agreement authority letter/agreement for the stores quoted from the manufacturer has been enclosed. | |
| 13. | Free Training on use of equipment after supply, as specified tender, has been accepted in writing. | |
| 14. | Technical and financial bids along with necessary documents have been sealed in separate envelopes and both envelopes again sealed in big envelopes with prescribed writing on envelopes. | |
| 15. | The tenderer has clearly mentioned in writing that business dealings with their firms have not been banned by any Govt./Private agency. | |
| 16. | If the tenderer wants to mention any specific condition, it must be mentioned on the covering/forwarding letter only which will be placed on the first page of the technical bid. Such conditions mentioned in any other document shall not be given any consideration. | |

Signature of Tenderer with Office Seal

The purpose of this project is to establish a fully operational facility with synchronized equipment to grow crops (mainly rice) promoting Speed Breeding Research in Rice and other crops.

The Walk & Reach in Chamber should be housed inside a fencing which consists of a working chamber with all advanced facilities promoting early maturity of crop plants and an Ante-room. The drawing of proposed structure is given below.

CONCEPTUAL LAYOUT



Technical Specifications for Establishment of Speed Breeding Facility at ICAR-IIRR, Hyderabad**MAIN BUILDING STRUCTURE WITH COVERING:**

Speed Breeding Facility should be of Specific Design Based on PEB structure which can withstand wind velocity up to 140 km/hr.

Main facility structure should be made of PEB structure type with epoxy coating on metal parts. Roof and all side outer covering by 0.5mm PPGL sheet

UTILITY STRUCTURE:

It should be made by hot dip galvanized pipe & roof covered with PPGL sheet & side wall covered with galvanized mesh with lockable provision.

Area Measurements

| Item Name | Dimension | Total Area | Units |
|---|--------------|------------|---------|
| Main Facility Covered Area | 14.15m x 48m | 679.2 SQM. | 01 Set |
| Total Covered area including Utility | 18.15 x48m | 871.2 SQM. | 01 Set |
| Big Speed Breeding Chamber Area (L1 & L2) | 7.5m x 5.4m | 40.5 SQM. | 02 Nos. |
| Small Speed Breeding Chamber Area (S1 to S10) | 4m x 3m | 12 SQM. | 10 Nos. |
| Entry/Reception Area | 5.5m x 8m | 44 SQM. | 01 No. |
| Research Lab – 1 & 2 | 5.5m x 8.3m | 45.65 SQM. | 02 Nos. |
| Scientists Room - 1 & 2 | 5.5m x 4m | 22 SQM. | 02 Nos |
| Conference Room | 5.5m x 6m | 33 SQM. | 01 No. |
| UPS Cum Electrical Room | 4m x 5.4m | 21.6 SQM. | 01 No. |
| Common Corridor | 3.5m x 36m | 110 SQM. | 01 No. |
| Utility Area (around the speed breeding chambers) | 4m x 48m | 192 SQM. | 01 No. |
| Storeroom | 3.5m x 3.2m | 11.2 SQM. | 01 No. |
| M-Washroom | 5.5m x 2.5m | 13.75sq.m. | 01 No. |
| F-Washroom | 3.5m x 2.5m | 8.75sq.m. | 01 No. |
| Structure Centre Height | 7.3m | | |
| Structure Side Height | 6.2m | | |
| Shape | Hut | | |

1. CONSTRUCTION OF LARGE SIZE SPEED BREEDING CHAMBERS – L1 & L2:

Dimensions: 7.5m x 5.4m x 4m. (L x W x H) - 02 Chambers

- 1) **Growth Area:** 40.5m²
- 2) **Height:** 4m (4000mm) inside height from floor.
- 3) **Fresh Air:** Filtered inlet 50 cfm per days.
- 4) **Exterior Finish:** Polyurethane coated Sheet
- 5) **Interior Finish:** Interior surface in SS (stainless steel) 316 sheet with smooth surface
- 6) **Cabinet Insulation:** 60mm thick polyurethane filled insulation

:20:

- 7) **Door with Glass view window Size:** 1200mm x 2100mm with inside safety release latch and cam-type self-closing hinges. Door should have positive closer device, thermal plastic gasket with magnetic core, and door stop. – 01 No. in each chamber x 2 chambers = 02 Nos.

A) LOCAL CONTROL SYSTEM:

The CCM-C to control the climate conditions using a 7-inch touchscreen HMI display on the control panel. The CCM-C should be equipped with CCM-C V4.5 control software designed to match the required condition for the facility.

Features

- Control system should be capable of Real time clock programming of temperature, relative humidity, lighting status & CO₂ (Optional).
- Industrial PLC based control system.
- 7-10-inch touch display
- Multi set-point programming.
- 15 time-based programs to form a schedule for a complete crop cycle
- Measuring parameter high & low deviation alarm
- Security: Multi-level password protection
- Auto restarts in case of power failure with in-built battery
- Alarm history of last 30 alarms
- Data recording facility of 3 months with 1-minute interval
- Data logging in graphical format & can be exported to Excel using Pen drive
- Audio/visual alarm in case of alarm trigger
- Remote access of local computer

VIRTUAL CHAMBER SOFTWARE:

- To access & monitor the chamber from one location with following features
 - To work on networked Windows computer
 - To facilitate user to communicate directly with the local control system
 - Same programming facilities as local control system
 - Accessible via. Internet from anywhere
 - Online service diagnostic by service personal
 - Chamber usage tracking and reporting by user
 - Global email alerts

B) LIGHTING SYSTEM:

A separate technical brochure (hard copy as well as web link for online verification) of lights to be provided for verification

- Light Grid: system bench wise, 03 Nos. in each chamber.
- Total No. of light grid in Both Chambers – 06 Nos.
- Programming and control: Independent level programming to set up day/night programming.
- Light Grid system mechanism customized modules with gear motor, driving shaft, special cable drum with S.S. wire rope. Grid Integrated with following Adjustable Spectrum Lights
- **LED Grow Light:** The Grow light to deliver crop quality, delivering the ideal light spectrum for promoting robust plant growth.

Features

- Light intensity (PPF) up to 1140µmole/s
- PPF: 750 µmole/(m²-s) measured from 18 inch
- Light spectrum range: 400-750 nm
- Up to 46% Energy saving using LED

- Up to 05 tunable wavelength
- Wavelength-1: Blue (450nm)
- Wavelength -2: Red (660nm)
- Wavelength -3: White (5700K)
- Wavelength -4: Far-Red (735nm)
- Wavelength -5: White (3600K)
- Adjustable spectrum using variable light intensities
- Time based scheduling
- Individual and/or Group wise light control

| Wattage | Voltage | Dimension | Weight | Thermal Management | Beam Angle | Lifetime |
|-----------|--------------------------|---------------|--------|--------------------|------------|----------|
| 10.5-600W | 220V, 1phase, 50Hz | 199x219x425mm | 7-8Kg | Active Fan Cooling | 120° | >50,000h |

- Total adjustable spectrum lights per Bench = 6 Nos.
- Total lights per chamber = 18 Nos.
- Total lights in both chamber= 36 Nos.

C) TEMPERATURE CONTROL:

- Temperature Range: 18°C to 42°C
- Temperature accuracy: +/- 0.5°C at set temperature point
- Temperature Safety Limits:
 - a) Programmable High and Low temperature limits tracking alarm, automatically following programmed set point.
 - b) Independent, high and low temperature limits for secondary safety.
 - c) Audible alarm for both safety devices and automatic chamber power off on reaching limits.
- Vertically adjustable sensing device in the growth area to sample chamber area of accurate temperature and humidity control and recording to avoid measurement error by lamp radiation.

D) REFRIGERATION:

- Air-cooled condenser (RAC outdoor only): capable of trouble-free working at outside temperature of 45°C
- **Evaporator:** Copper – tube construction.
- **Refrigerant:** CFC-free refrigerant.
- **Circulation:** Internal Circular of air smooth modulation using of air for smooth modulation of heating and cooling.

E) AIR FLOW:

- Upward airflow through uni-floor less than 15.2m/min. flow rate and having minimum impact on rate of transpiration of plant entire growth area, filtered fresh air, adjustable input and exhaust.
- Fresh air exchange approx. Filtered inlet, 50 cfm per days.

F) HUMIDITY CONTROL:

Ultra Sonic humidity System with fine water particles to attain humidity level up to 85% ± 5%.
Capacity: 10Ltrs / Hrs. capacity. 02 humidifiers in each chamber, Total no of humidifier- 04 Nos.

Range: Up to 85% RH lights OFF and 80% Light ON,

1) Control: +/- 5% RH.

2) System: It should have a dry sensor to direct measure humidity in % RH.

PVC connection for de-ionized water supply from a single point source.

G) CARBON DIOXIDE CONTROL SYSTEM:

CO2 Range: 350-1200 ppm with CO2 Cylinder, manifold, pressure regulators, automatic solenoid valve, SS 304 Pipelines and fixing accessories.

H) SSBF CUSTOMIZED BENCHES:

Bench Size: 6m x 1.2m, Material: Extruded Anodized aluminium with food grade material customized top tray to keep pot plants.

Total benches in each chamber= 03 nos. (total 6 benches for large speed breeding chambers)

The benches should have provision for movability with minimum force. A single average man/woman should be able to move the bench without applying much power.

2) CONSTRUCTION OF SMALL SPEED BREEDING CHAMBERS – S1 to S10

CONSTRUCTION:

Each Chamber Dimensions: 4m x 3m x 4m. (L x W x H)

1. **Growth Area:** 12 m²
2. **Height:** 4m (4000mm) Inside height from floor.
3. **Fresh Air:** Filtered inlet 50 cfm per day.
4. **Exterior Finish:** Polyurethane Coated Sheet.
5. **Interior Finish:** Interior surface in SS (stainless steel) 316 sheet, smooth surface
6. **Cabinet Insulation:** 60mm of Polyurethane filled insulation.
7. **Door with Glass view window:** Size 1000mm x 2100mm with inside safety release latch and cam-type self-closing hinges. Door should have positive closer device, thermal plastic gasket with magnetic core, and door stop. – 01 No. in each chamber x 10 chambers 10 Nos.
8. **Control Panel:** Left hand side and details specification mentioned in control system.
9. **Instrument Ports:** Two ports, 50mm diameter with light tight cap

A) LOCAL CONTROL SYSTEM:

The CCM-C to control the climate condition using a 7-inch touchscreen HMI display on the control panel. The CCM-C should be equipped with CCM-C V4.5 control software designed to match the required condition for the facility.

Features

- Control system should be capable of Real time clock programming of temperature, relative humidity, lighting status & CO2 (Optional).
- Industrial PLC based control system.
- 7-10-inch touch display
- Multi set-point programming
- 15 time-based programs to form a schedule for a complete crop cycle
- Measuring parameter high & low deviation alarm.
- Security: Multi-level password protection.
- Auto restarts in case of power failure with in-built battery.
- Alarm history of last 30 alarms
- Data recording facility of 3 months with 1-minute interval.
- Data logging in graphical format & can be exported to Excel using Pen drive
- Audio/visual alarm in case of alarm trigger
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VIRTUAL CHAMBER SOFTWARE:

- To access & monitor the chamber from one location with following features
 - To work on networked Windows computer
 - To facilitate user to communicate directly with the local control system
 - Same programming facilities as local control system
 - Accessible via. Internet from anywhere
 - Online service diagnostic by service personal
 - Chamber usage tracking and reporting by user
 - Global email alerts

B) LIGHTING SYSTEM:

A separate technical brochure (hard copy as well as web link for online verification) of lights to be provided for verification

- Light Grid system for Table size: 2.4m x 1.2m
- Light Grid – 01 Nos. in each bench wise
- Total No. of grid in all 10 Chamber – 10 Nos.
- Programming and control: Independent level programming to set up day/night programming.
- Light Grid system mechanism customized modules with gear motor, driving shaft, special cable drum with S.S. wire rope. Grid Integrated with following
- LED Light: for four chambers – S1, S2 & S6, S7
Adjustable Spectrum Lights with 09 tuneable channels & ability to dim from 0 to 100%, Output at full intensity 1300 $\mu\text{mol/s}$, 1.9 $\mu\text{mol/J}$ -380nm -630nm, -400nm -660nm, - 415nm -735nm, - 450nm -White Horticulture, 530nm, Lifetime of Q90 >50 000h.
- LED Grow Light: (for six chamber S3, S4, S5, S8, S9 & S10) The Grow light to deliver crop quality, delivering the ideal light spectrum for promoting robust plant growth.

Features

- Light intensity (PPF) up to 1140 $\mu\text{mole/s}$
 - PPF: 750 $\mu\text{mole}/(\text{m}^2\text{-s})$ measured from 18 inch
 - Light spectrum range: 400-750 nm
 - Up to 46% Energy saving using HPS
 - Up to 04 tunable wavelength
 - Wavelength-1: Blue (450nm)
 - Wavelength -2: Red (660nm)
 - Wavelength -3: White (5700K)
 - Wavelength -4: Far-Red (735nm)
 - Adjustable spectrum using variable light intensities
 - Time based scheduling
 - Individual and/or Group wise light control
- Total adjustable spectrum lights per Bench = 02 Nos.
 - Total lights per chamber = 02 Nos.
 - Total lights in all chambers= 20 Nos.

| Wattage | Voltage | Dimension | Weight | Thermal Management | Beam Angle | Lifetime |
|-----------|--------------------------|---------------|--------|--------------------|------------|----------|
| 10.5-600W | 220V, 1phase, 50Hz | 199x219x425mm | 8Kg | Active Fan Cooling | 120° | >50,000h |

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- Temperature Range: 18°C to 42°C
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 - c) Audible alarm for both safety devices and automatic Chamber power off on reaching limits.
- Vertically adjustable sensing device in the growth area to sample Chamber area of accurate temperature and humidity control and recording to avoid measurement error by lamp radiation.

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- Air-cooled condenser (RAC out door only): capable of trouble free working at temperature 45°C
- **Evaporator:** Copper – tube construction.
- **Refrigerant:** CFC-free refrigerant.
- **Circulation:** Internal Circular of air smooth modulation using of air for smooth modulation of heating and cooling.

E) AIR FLOW:

- Upward airflow through uni-floor less than 15.2m/min. flow rate and having minimum impact on rate of transpiration of plant entire growth area, filtered fresh air, adjustable input and exhaust.
- Fresh air exchange approx. Filtered inlet, 50 cfm per days.

F) HUMIDITY CONTROL:

Ultra Sonic humidity System with fine water particles to attain humidity level up to 85% ± 5%. Capacity: 10Ltrs / Hrs. capacity. 01 humidifiers in each chamber total no all 10 chambers 10 Nos.

Range: Up to 85% RH lights OFF and 80% Light ON,

1. Control: +/- 5% RH.

2. System: It should have a dry sensor to direct measure humidity in % RH.

PVC connection for de-ionized water supply from a single point source.

G) CARBON DIOXIDE CONTROL SYSTEM:

CO2 Range: 350-1200 ppm with CO2 Cylinder with manifold, pressure regulators, automatic solenoid valve, SS 304 Pipelines and accessories.

H) SSBF CUSTOMIZED BENCHES:

Bench Size: 2.4m x 1.2m, Material: Extruded Anodized aluminium with food grade material customized top tray for keep pot plants.

Total bench per chamber = 01 no.

Total benches in all small chamber- 10 Nos.

The benches should have provision for movability with minimum force. A single average man/woman should be able to move the bench without applying much power.

3. RESEARCH LAB – 1 & 2
CONSTRUCTION:

Dimensions: 8.3m x 5.5m x 4m. (L x W x H)

1. Working Area: 45.65 m²

2. Height: 4m (4000mm) inside height

3. Air- Conditioning System: Split type Air conditioning system.

4. **Exterior Finish:** Polyurethane Coated Sheet
5. **Interior Finish:** Interior PPGI Sheet
6. **Cabinet Insulation:** 60mm of Puff Polyurethane filled insulation.
7. **Door:** Size: 1200mm x 2100mm with glass view window. 01 No in each Lab
8. Each lab should have a working platform made from granite stone from all slides
9. Each lab should have an installed washbasin and associated three-way taps and plumbing accessories.
10. Electric switches and sockets (15 in each lab) to be installed for plugging the instruments.
11. Each lab is to be installed with four 2 feet x 2 feet Backlit Panel (LED) – Cool White Light (6500K)
12. A Total of ten laboratory stools of branded company to be provided for both the labs.
13. The lab should have chemical storage cabinets installed on sidewalls.

4. ENTRY HALL/RECEPTION AREA **CONSTRUCTION:**

Dimensions: 5.5m x 8m x 4m. (L x W x H)

1. **Air-conditioning System:** Split type Air conditioning system.
2. **Exterior Finish:** Polyurethane Coated Sheet
3. **Interior Finish:** Interior PPGI Sheet
4. **Cabinet Insulation:** 60mm of Puff Polyurethane filled insulation.
5. **Main double leaf door** size: 1800mm x 2400mm. – 02 Nos.

5. SCIENTIST ROOM - 1 & 2 **CONSTRUCTION:**

Dimensions: 5.5m x 4m x 4m. (L x W x H)

1. **Air-conditioning System:** Split type Air conditioning system.
2. **Exterior Finish:** Polyurethane Coated Sheet
3. **Interior Finish:** Interior PPGI Sheet
4. **Cabinet Insulation:** 60mm of Puff Polyurethane filled insulation.
5. **Door:** Door Size: 1170mm x 2100mm with glass view window
6. Each room should be provided with a storage cabinet (Almira) and a bookshelf
7. Each room should be provided with a ceramic sink and taps.

6. CONFERENCE ROOM **CONSTRUCTION:**

Dimensions: 5.5m x 6m x 4m. (L x W x H)

1. **Air-conditioning System:** Split type Air conditioning system.
2. **Exterior Finish:** Polyurethane Coated Sheet
3. **Interior Finish:** Interior PPGI Sheet
4. **Cabinet Insulation:** 60mm of Puff Polyurethane filled insulation.
5. **Door:** Door Size: 1170mm x 2100mm with glass view window

7. STORE ROOM **CONSTRUCTION:**

Dimensions: 3.5m x 3.2m x 4m. (L x W x H)

1. **Air-conditioning System:** Split type Air conditioning system.
2. **Exterior Finish:** Polyurethane Coated Sheet

3. **Interior Finish:** Interior PPGI Sheet
4. **Cabinet Insulation:** 60mm of Puff Polyurethane filled insulation.
5. **Door:** Door Size: 1170mm x 2100mm . 01 No.

7. UPS CUM ELECTRICAL ROOM CONSTRUCTION:

Dimensions: 4m x 5.4m x 4m. (L x W x H)

1. **Air-conditioning System:** Split type Air conditioning system.
2. **Exterior Finish:** Polyurethane Coated Sheet
3. **Interior Finish:** Interior PPGI Sheet
4. **Cabinet Insulation:** 60mm of Puff Polyurethane filled insulation.
5. **Door:** Door Size: 1170mm x 2100mm . 01 No.

8. WASH ROOMS CONSTRUCTION:

- A. **He Washroom Dimensions:** 5.5m x 2.5m x 4m. (L x W x H) x 1 No
- B. **She Washroom Dimensions:** 3.5m x 2.5m x 4m. (L x W x H) x 1 No
 1. **Exterior Finish:** 60mm of Puff Polyurethane filled insulation
 2. **Interior Finish:** with cemented brick wall & tiles finishing.
 3. **Door:** Size: 900mm x 2100mm– 02 Nos.
 4. **Sink:** ceramic sink with cabinet and accessories.
 5. Good Quality washroom accessories.

9. COMMON ITEMS FOR COMPLETE FACILITY

1. **COMPUTER SYSTEM:**

- i. 22" monitor
- ii. CPU with i7 Processor 13th Generation
- iii. Window-11 home
- iv. 240 gb SSD + 1 TB HD
- v. 8 GB ram
- vi. 600VA ups system

2. **CENTRAL CONTROL SYSTEM COMPATIBLE FOR INTEGRATED OPERATION OF ALL SPECTRUM LIGHTS:**

Requirement of advanced and compatible control software for LED lighting systems for precise light management to optimize plant growth and quality in controlled environments. Software should offer scheduling, dimming, and spectrum control with function to create grow zones and strategies with real-time monitoring and data-driven insights to enhance productivity and energy efficiency.

3. **DOOR ACCESS SYSTEM:**

Biometric magnetic door access for secured door opening and closing with PC interface communication or card for access for each growth room.

DOOR: - Specially designed for Speed Breeding/Clean Room Facility

- Heavy duty reinforcement in double blade for extreme rigidity.
- Minimalist design & smooth surface enabling highest standard of hygiene.
- Design bottom gasket for complete hermetic sealing.

- 60-80mm PU Insulation
- Door Integrated with Airtight gasket and magnetic lock.
- **Emergency Door:** These should be Fire Rated Doors consisting of hardware such as Panic Bar, door closers, handles etc. 1 Nos.
- **Main Entrance Door Size:** 2200 x 2400mm

4. FIRE SAFETY:

- Provide Fire Extinguisher Cylinder in each chamber.
- Designed to ensure safe passage through limited visibility conditions.
- Fire Detection systems equipped with a variety of detectors that can sense smoke, heat & flames as well.

5. CCTV SYSTEM:

CCTV camera 18 Nos. with cabling and fitting complete accessories

- CP-PLUS NVR 16 Channel 4K
- Camera – 4MP
- CP-PLUS Full Giga Switch 24 port POE Switch
- Surveillance 4TB Hard Disk
- Camera boxes
- Cat6 Cable

6. RO SYSTEM:

RO System-150 LPH capacity to be provided along with plumbing fittings for humidifier with 5000Ltrs storage tank for fresh water.

7. CIVIL WORK:

Civil construction including foundation and base platform of the facility as per our approved design drawing

Foundation wall – 9” wide good quality brick wall 1.5ft below and 4ft above ground level wall duly plastered and painted

RCC Columns: 5ft deep and 4ft above ground level

Base PCC 75mm thick entire floor area

M-25 flooring 100mm thick on main facility area and 75mm thick on utility area.

TMT Bar winding for columns RCC Tie Beam and floor.

Floor & wall tiles of reputed make in washroom area.

Plinth Protection of 1.5m wide and 75mm thick all around the facility. (Made up of 2" thick crushed bricks with 20mm graded stone (1:3:6 Cement: Sand: Rodi) and 25mm thick 1:2:4 ratio cement slurry on top of it.

Cemented platform for RO Storage tank.

8. FENCE WORK:

The covered facility of nearly need to be fenced with high quality and strong link chain net wire 5ft height with galvanized pole and with entry / exit gate along with locking facility. An approach passage with paver blocks from main entry fenced area up to entry door needs to be provided. Gate: GI frame.

9. FRONT FACIA:

Made by good quality ACP Sheet finished with supporting structure, colour as per user requirement:

10. SS RAILING:

SS railing on front entry step area on left & right-hand side made by SS – 304 pipe material.

11. FURNITURE:

Sofa set for reception, half circle reception desk, 4 executive chairs, 4 visitor chairs, 2 executive tables, one conference room centre table with six chairs.

12. BIG LED TV TOUCH SCREEN: 48” Android based screen with Bluetooth

13. GENERATOR:

- 200 KVA, 3 phase capacity genset with canopy & AMF Panel.
- Shelter of DG Set made by Hot Dip Galvanized pipe & roof covered with 0.5mm thick PPGL Sheet covering
- Cemented platform including PCC & RCC as per platform size requirements.

14. ANTI-TERMITE & ANTI RODENT TREATMENT: -

Pre-Construction, The Anti Termite Treatment to be done on building construction area. The soil foundation, building pillars, and other joints to be treated using chemicals to keep termites and Rodent out of the premises.

15. ELECTRICAL WIRING:

For entire facility including Main DB Panel with Individual control MCB for each chamber

All wires should be of copper and desired load (Make-Finolex/Havells) and switches imported make, extra switches (10% of total) also to be provided as stand by. Each feature should have own electric line with MCB and should be underground in PVC conduit pipe complete set with A grade work.

Chamber to be compatible with Power supply 440 Volts,1-3-Phase- 50 Hz-A.C. supply Neutral and Ground.

One main DB Panel with MCCB Protection independent for each chamber including safety norms for entire facility.

Hot Dip galvanized earthing arrangements for each equipment's and main structure building.

Separate Neutral earthing for DG Set

Separate Body earth for DG Set as per guidelines.

16. UPS SYSTEM FOR POWER BACK-UP: 50KVA capacity ups system with half hour backup for PAR Lights & Automation with accessories

17. FLOORING:

International standard “Resin based Epoxy” flooring of 2mm thickness on concrete surface. Provide and apply a thick primer & thick self-levelling topping. As per IS: 4631 standards.

18. ADDITIONAL ITEMS:

1. Speed Breeding Light – 10 Nos.
2. Stand By Cooling System:

19. ADDITIONAL DISMANTLING WORK:

Demolition of existing warehouse and land levelling work.

20. Experience of firm:

The firm should have experience in installation of at least three speed breeding facilities which are in operation for minimum one year. Verifiable documents to be submitted.

21. Onsite training: The firm needs to make arrangements for onsite training of IIRR staff (**5Nos**) for one complete crop cycle.

22. Warranty: The quotation should be inclusive of three-year comprehensive warranty and complete maintenance.

23. Onsite Maintenance:

The successful bidder has to depute his team consisting of Maintenance Engineer (1) and Support Staff (1) at onsite for functioning/upkeep and maintenance for a period of 36 months i.e. during the warranty period. No separate charges shall be payable for onsite maintenance team including staff and consumables/spare parts/equipments.

Undertaking for Custom Bid / BoQ Creation on GeM
(to be filled by the competent Authority)

File number: I-14/EF/Speed Breeding Facility/GeM/2025

Date: 01/03/2025

Subject: Undertaking for Creation of Custom Bid / BoQ for Goods / Services required on GeM

1. Goods / Services Required (Please specify the exact goods / services required):

Speed Breeding Facility

2. Search String Used in the GeM Availability Report & Past Transaction Summary
(Please state the exact search string used to find suitable categories):

Speed Breeding Facility

3. GARPTS ID (mention GeM Availability Report ID):

GEM/GARPTS/01032025/0S6RA6YRT9CH

4. Categories which will be selected for sending notification from GeM:

Category 1: **Naturally Ventilated Poly House**

Category 2: **Shade Net House**

Category 3: **Bunk House**

5. Undertaking:

I acknowledge that the creation of a custom bid/BOQ is an exceptional process, warranted only when categories are unavailable on GeM for the required goods/services. I, **(DIRECTOR)**, undertake to the following:

1. Our office/organization has diligently conducted a comprehensive search using the provided search parameters, confirming the absence of relevant categories for goods/services.
2. To the best of our knowledge, our office/organization has provided an accurate and detailed description of the required goods/services in para 1 above.
3. We have meticulously selected the most relevant categories for notification in para 4 above.
4. Our office/organization stands fully prepared to justify the necessity for accustom bis/BOQ to GeM upon request.

Signature


01/03/25

(Director, ICAR-IIRR, Hyderabad)

Note – This undertaking will be attached to BOQ/Cusom bid published and will be available in public domain.

HEMANT NAKSHI SUNDARAM

निदेशक / DIRECTOR

भाकृअनुप-भारतीय चावल अनुसंधान संस्थान
ICAR Indian Institute of Rice Research
राजेन्द्रनगर, हैदराबाद-५०००३०. (तेलंगाना)