



ಭಾ. ಕೃ. ಅನು. ಪ - ಭಾರತೀಯ ತೋಟಗಾರಿಕಾ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ  
ಹೆಸರಗಟ್ಟ ಕೆರೆ ಅಂಚೆ, ಬೆಂಗಳೂರು-560 089

भा.कृ.अनु.प.- भारतीय बागवानी अनुसंधान संस्थान  
हेसरगट्टा लेक पोस्ट, बेंगलूरु - 560 089

**ICAR-Indian Institute of Horticultural Research**  
**Hesaraghatta Lake Post, Bengaluru - 560 089**

EPABX: 080-23086100 Extn: 218 & 217

FAX: 080-28466291 – Email: [purchase.iihr@icar.gov.in](mailto:purchase.iihr@icar.gov.in)



F.No.18-01/2024-25/BS/IIHR/335934

Dated:08.11.2024

### **NOTICE FOR INVITING TENDER THROUGH E-PROCUREMENT**

Online Bids are invited from interested firms under **two bid systems (Technical bid/financial bid)** for **Procurement of Environment control chamber (2nos) at ICAR-IIHR H'ghatta**, Manual bids will not be entertained.

Tender documents may be downloaded from e-procurement website of CPPP <https://eprocure.gov.in/eprocure/app> as per the schedule given in CRITICAL DATE SHEET as under:

### **CRITICAL DATE SHEET**

<b>Tender No.</b>	F.No.18-01/2024-25/BS/IIHR/335934
<b>Name of Organization</b>	ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH, Hesaraghatta, Lake Post, Bangalore
<b>Date and Time for Issue/Publishing</b>	08.11.2024 at 05:30 PM
<b>Document Download/Sale Start Date and Time</b>	08.11.2024 at 05:30 PM
<b>Bid Submission start Date and Time</b>	08.11.2024 at 05:30 PM
<b>Bid Submission End Date and Time</b>	26.11.2024 at 03:00 PM
<b>Date and Time for Opening of Technical Bids</b>	28.11.2024 at 10:00 AM
<b>Address for Communication</b>	Senior Administrative Officer (Purchase), IIHR, Hesaraghatta Lake Post, Bangalore

Sd/-  
CHIEF ADMINISTRATIVE OFFICER (SG)

**INSTRUCTIONS FOR ONLINE BID SUBMISSION**

1. The Tender form/bidder documents may be downloaded from the <https://eprocure.gov.in/eprocure/app>. **Online submission of Bids through** Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.
2. Tenderers/bidders are requested to visit the website <https://eprocure.gov.in/eprocure/app> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.
3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Council reserves the right to accept or reject any or all the tenders.
4. The Firms are required to deposit (in original) **EMD of Rs.1,80,000/-** in the shape of Demand Draft in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be addressed to **Senior Administrative Officer(Purchase), IIHR, Hesaraghatta Lake Post, Bangalore-560089** on or before **26.11.2024 by 3:00 PM**.
5. **Please note that only online Bids will be accepted.**
6. Bidders need not to come at the time of Technical as well as Financial bid opening at IIHR. They can view live bid opening after login on CPPP e-procurement portal at their remote end. If any dispute arises, Within Bengaluru Jurisdiction only.
7. The firms are also required to upload copies of the following documents for Technical eligibility and Evaluation: -

**Technical Bid**

1. **Scanned copy of MSME or UdyogAadhar or NSIC is a must for EMD Exemption if eligible, otherwise firms have to furnish EMD.**
2. Scanned copy of valid firm's registration certificate from registered of companies,
3. PAN Card copy
4. GST Number with Registration Certificate
5. Bank details of the firm.
6. Income Tax Returns for the last three years (2021-22,2022-23,2023-24).
7. Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years (2021-22,2022-23,2023-24).
8. Turnover of the business should be Rs.1.80 Crore per year (2021-22,2022-23,2023-24). And Chartered Accountant certified profit and Loss account; Balance sheet to this effect may be enclosed.
9. **Tender acceptance letter (Annexure-V) is mandatory.**
10. **Latest copies of the GST return for six months (January,2024 to June,2024)**

□ **Financial Bid:-**

- a) Price Bid as BOQ XXX.xls
- b) **Evaluation criteria: Tender will be awarded to the lowest quoted Firm among those firms qualified in the Technical Bid. In case, two or more firms quote the same amount in r/o all the items work together as a whole, then the tender will be awarded to the Firm which has got more average turnover in the last 3 years, based on IT returns/Profit & Loss account/Turnover duly certified by the CA and uploaded along with Tender through CPP.**

S/d

**CHIEF ADMINISTRATIVE OFFICER (SG)**

**Terms & Conditions**

1. The tenderer shall quote rates, which will include the supply, installation & other incidental charges. GST, if any, should be indicated separately.
2. The rates should be quoted as per the BOQ uploaded on the CPP Portal (reference may be obtained from Annexure-III). GST, if any, should be indicated separately. It must be noted that the contract shall be awarded to the firm which fulfils all the required terms and conditions and remains L-I for **Total cost**.
3. The firm must also possess valid PAN No. & GST registration number and a copy of the same must also be enclosed with the tender document.
4. **Latest copies of the GST return for six months (January,2024 to June,2024)**
5. Copy of Income Tax Return Statement may be furnished for the Financial year 2021-22,2022-23,2023-24.
6. Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years (2021-22,2022-23,2023-24).
7. **Turnover of the business should be Rs.1.80 Crore per year (2021-22,2022-23,2023-24). And Chartered Accountant certified profit and Loss account; Balance sheet to this effect may be enclosed.**
8. Modification in the tender documents after the closing date is not permissible.
9. The successful firm shall **commence work** within 10 days from the date of confirmed **work order** and if the work not completed in time then EMD shall be forfeited. The rates quoted shall be valid for one year from the date of opening of tender.
10. The contractor/bidder or his representative may contact the undersigned at **Tel. No. 080-23086100 Extn: 217 & 211** for any further clarification. No variation in terms and quality of the items/specifications shall be entertained or else EMD/Security deposit shall be forfeited.
11. The bidder is advised to visit the site of works at his own expenses and obtain all information that may be necessary for preparing the quotation. Submission of quotation is acceptance by the tenderer that he has inspected the site or he is aware of all conditions.
12. The Director, ICAR-IIHR, shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job without assigning any reason.
13. Merely quoting of lowest rates does not mean that order shall be given to that firm. The competent authority will finally decide on the basis of quality & performance of past installations.
14. The Firms are required to deposit (in original) an **Earnest Money Deposit of Rs.1,80,000/-** amount mentioned against item in the form of Demand Draft from any of the Commercial Bank in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be address to Senior **Administrative Officer (Purchase), IIHR, Hesaraghatta Lake Post, Bangalore-560089 on or before 26.11.2024 by 03:00 PM**. No quotation shall be considered without the earnest money deposit. Demand draft drawn in favour of any officer other than 'THE DIRECTOR, ICAR UNIT-IIHR payable at Bangalore' will not be accepted and the tender will be rejected. The earnest money will be refunded only after the finalization of the procurement and no interest will be paid on earnest money. The request letter for refund of EMD & performance security is to be submitted by the firm.
15. Rates once finalized will not be enhanced/reduced during the currency of the contract.
16. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the earnest money /performance security deposited would be forfeited.

17. The Director, ICAR-IIHR reserves the right to cancel the contract at any time during the currency period of the contract without giving any reason.
18. The firm, to whom the tender will be awarded, will have to deposit the performance security equal to 3% of the total amount at the time of installation of equipment. If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security. If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security.
19. If any dispute(s) arises between IIHR and the firm with reference to the contract, IIHR will decide it and its decision will be binding on the firms.
20. Bid Validity: 90 days
21. Payment:- No advance or part payment will be given. The payment will be released after satisfactory completion of the work and certificate from the Indentor/Engineer.
22. **The supplier/firm has to submit the GST return for having remitted the GST amount paid by the institute to the concerned authority within 30 days from receipt of payment from IIHR, otherwise their EMD and SD/PS will not be released and such firms shall be blacklisted.**
23. **GST extra as applicable should be indicated separately in the column provided. Otherwise such quotes will be rejected.**

**Payment Terms: In order to facilitate for speedy settlement of payment you are requested to Furnish the following details as below:**

1. **Name of the firm:**
2. **Name of the Bank:**
3. **IFSC Code of Bank:**
4. **Name of the Account & Account No.:**
5. **Branch Code:**
6. **Amount to be paid:**
7. **E-mail address of the party:**
8. **GST No. and Pan No. Copies**

‘Terms & Conditions are acceptable’

Dated

(Authorized signatory of the firm)

**Annexure-III**

---

(Reference for BOQ) (To be quoted in format provided on CPP Portal)

Price bid for: **Procurement of Environment control chamber (2nos)@ ICAR-IIHR H'ghatta.**

Sl. No.	Name of item	Quantity	Per unit price* (in figures/words) (as per BOQ)
01	<b>Procurement of Environment control chamber (2nos)@ICAR-IIHR H'ghatta</b>	01 Unit	

\*Annexure-VIII

- Items should be of reputed make and suitable for high end elite users
- GST extra as applicable should be indicated separately in the column provided. Otherwise such quotes will be rejected.**
- **ICAR-IIHR , Bangalore.**

**Note:** The above mentioned Financial Proposal/Commercial bid format is provided as BoQ\_XXXX/xls along with this tender document at <https://eprocure.gov.in/eprocure/app>. Bidders are advised to download this BoQ\_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the Financial bid. **Bidder shall not tamper/modify downloaded price bid template in any manner.** In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with IIHR.

**Annexure-IV**

EPABX: 080-23086100 Extn: 218 & 217  
FAX: 080-28466291 - Email: purchase.iihr@icar.gov.in



**ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH**

**HESSARAGHATTA LAKEPOST, BANGALORE-560 089**

Name of the Firm \_\_\_\_\_

Registered/Postal Address \_\_\_\_\_

1	Permanent Account Number (PAN)	
2	GST Registration No.	
3	Bank Details	
a	Bank Name	
b	Branch Address	
c	Account Number	
d	Type of account (current/saving) MICR No.	
e	IFSC Code	

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature

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

**Date:**

To,  
The Director,  
ICAR-IIHR,  
Hesaraghatta Lake Post,  
Bangalore-560089.

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 lime annexure(s), schedule(s), etc...) which form part of the contract agreement and I/We shall abide hereby 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 documents/corrigendum(s) in its totality/entirely.
5. I/we do hereby declare that our Firm has not been black-listed/debarred by any Govt. Department/Public sector undertaking.
6. I/we certify that all information furnished by 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 that bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)



## **INSTRUCTIONS 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**

- 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.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 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.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (class II or 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.
- 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.
- Bidder then logs in to the site through the secured log-in by entering their users ID/password and the password of the DSC/e-Token.

### **SEARCHING FOR TENDER DOCUMENTS**

- 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.
- 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/e-mail in case there is any corrigendum issued to the tender document.
- 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**

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 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.

- 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.
- 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.

## **SUBMISSION OF BIDS**

- 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 technical issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as 'offline' to pay the tender fee/EMD as applicable and enter details of the instrument.
- 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.
- Bidders are requested to note that they should necessarily submit their financial bids in the Format provided 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) cell 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.
- 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.
- 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 openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 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 and a bid summary will be displayed with the bid no. and the date and time of submission of the bid with all other relevant details.

- The bid summary has to printed and kept as an acknowledgement of the submission of the bid.

#### **ASSISSTANCE TO BIDDERS**

- Any queries relating to the tender documents and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.
- 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-VII**

**Details of Equipment& EMD**

Sl. No.	Purchase of item	Qty	Earnest Money in INR	File. No. for reference
01	<b>Procurement of Environment control chamber (2nos) @ICAR-IIHR H'ghatta</b>	02 UNIT	Rs.1,80,000/ -	F.No. 18-01/2024- 25/BS/IIHR/335934

Note:

- 1) EMD defined on to the Portal is MINIMUM. Bidder has to submit the EMD as per item for which quoting for.
- 2) **Scanned copy of MSME or Udyog Aadhar or NSIC is a must for EMD Exemption if eligible, otherwise firms have to furnish EMD**

\* ICAR-IIHR, Bangalore, Karnataka.

**TECHNICAL SPECIFICATION FOR: Procurement of Environment control chamber (2nos) at Block-III @ ICAR-IIHR H'ghatta.**

1. The design of chamber should be reach in and serve the purpose of growing Plants/tissue culture
2. The capacity of chamber should be 700 to 800 ltr or 25-30ft<sup>3</sup> volume
3. The Interior dimensions of the chamber should be 800-900mmW x 500-600mmD x 1200-1300mmH approx.
4. The construction should be made up of corrosion resistant wet-painted galvanized steel
5. The property of material or insulated cover should be CFC-free polyurethane spray-foam insulation with low-zero ODP (Ozone Depletion Potential) and low-zero VOC's (Volatile Organic Compounds).
6. Full-width flush door with keyed lock and magnetic gaskets for positive perimeter seal
7. Two (2) adjustable tiers of growth area (third and fourth tier optional).
8. The instrument should be able to adjust the outside fresh air manually
9. The chamber should have controller to control the fan speed of the chamber
10. Chamber should be flexible to change the direction of internal air circulation/flow uniformly in both vertical & horizontal direction
11. Lighting Intensity Approximately 500-600 micromoles/m<sup>2</sup>/s intensity, uniform distribution by Light & Ballast combination with Minimum IP 66 Rating system for lighting system Broadband spectrum using LED fixtures Open loop dimming Control.
12. The Environment control chamber must maintain temperature Range: +5°C to +40°C lights OFF and +10°C to +45°C lights ON (±0.5°C, at control point).
13. The refrigeration system should ensure uniform temperature across the shelves within the chamber and uniform flow of air horizontally across the shelves when multiple shelves are under use.
14. Refrigeration System consisting of air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended compressor life and close temperature control.
15. Electronic modulating 2-way stepper valve and Copper-tubed heat exchanger coil that smoothly regulates the temperature function of the chamber.
16. Chamber should have heavy duty lockable castors which enable the chamber to be moved.
17. The chamber should have provision to maintain precise humidity at set point.
18. Chamber should control humidity from ambient to 90%RH and should have provision for dehumidification.
19. Chamber should not use pan base method to create humidity inside. Humidity should be created through use of ultrasonic humidifier
20. Humidity Control: (Based on +21°C and 50% RH ambient condition) Resultant to 90% RH lights OFF, 75% RH lights ON, limited by a +25°C dewpoint.
21. Control: ±6% RH. System uses a dry humidity sensor to directly measure humidity in %RH (no wet sock).
22. Electrical Services: 50Hz: 230-1 -50Hz-2 wire plus ground – 16 Amp service, fixed cord no plug with power efficient technology
23. Illuminating LEDs should emit low heat and should have programmable dimmable option from 100% to 15%.
24. Chamber should provide data interphase option to download the data through the USB port of the chamber and archived on the touch screen logged every 30 seconds with minimum fifteen days of history.

25. Chamber should come with a drain inside the system and diurnal lighting system to simulate day and night conditions.
26. The Light Cycle screen should have parameters that can be set up for various conditions such as Timer set up, Active lightning, Continuous lightning, or start/ stop timer to operate light cycle of different span such as 12h:12h (day: night), 14h: 10h (day: night) etc.
27. Each tier of shelves should be lighted from top and light banks of each shelf should be controllable independently.
28. A robust industrial grade controlling system should have following provisions
  - A. High resolution coloured touchscreen with an intuitive graphic interface.
  - B. Programmable for key parameters such as temperature, lighting and humidity and receive audible, visual and email notifications of alarms.
  - C. Chamber should be able to store minimum 15 real-time user-entered programs (minimum 40 lines) with one minute resolution. Each program should define a single 24-hour period and a "Schedule" to create a single day, multi day or seasonal schedule.
  - D. Should have password-protected security levels reserved for users, administrators and service personnel.
  - E. Controller should be capable to track the amount of time on the basis of hour for each lighting output. The run time of each output should be viewed and reset using the local display.
  - F. HMI should display the day light integral (both accumulated and estimated) for present day, as well as for the previous 10-15 days.
29. Warranty: 3 Years
30. Chamber should be CE certified
31. Chamber should have optional provision of supply of CO<sub>2</sub> in the range of 0-20%
32. Provided with suitable servo stabilizer, laptop for data management
33. Original manufacture must have a track record of making this model for 5 more years., user list of minimum 20 installation in India
34. All the specification should be clearly highlighted in the product brochures, offered model should be standard model and catalogue should be on OEM Website.

Sd/-

**CHIEF ADMINISTRATIVE OFFICER(SG)**