



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI  
(Established by Ministry of Education, Govt. of India)  
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab  
PAN No. - AAAAI1781K GSTIN - 03AAAAI1781K2ZS

• Phone : +91-172- 2240121 • Fax : +91-172-2240124 • <http://www.iisermohali.ac.in> • Email: [stores@iisermohali.ac.in](mailto:stores@iisermohali.ac.in)

CPPP/Institute Website

IISERM (1627)23/24-Pur-GTE

Dated: 11<sup>th</sup> October 2023

## ई - निविदा आमंत्रण सूचना NOTICE INVITING E-TENDER

सहायक उपकरणों के साथ जलवायु नियंत्रित संयंत्र विकास कैबिनेट की आपूर्ति और स्थापना के लिए दो बोली प्रणाली में निदेशक, आईआईएसईआर मोहाली की ओर से ऑनलाइन निविदाएं आमंत्रित की जाती हैं। तकनीकी विनिर्देश और नीचे दिए गए विवरण के अनुसार और सीपीपीपी पर मूल निर्माता/आपूर्तिकर्ता से बीओक्यू सूची अर्थात् <https://eprocure.gov.in/eprocure/app> निविदा दस्तावेज ई-प्रोक्योरमेंट पोर्टल की वेबसाइट <https://eprocure.gov.in/eprocure/app> और संस्थान की वेबसाइट [www.iisermohali.ac.in](http://www.iisermohali.ac.in) से डाउनलोड किए जा सकते हैं।

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of Climate Controlled Plant Growth Cabinet with accessories** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in).

Sd/-

सहायक कुलसचिव (क्रय तथा भंडार)  
Assistant Registrar (Stores & Purchase)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI  
(Established by Ministry of Education, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab  
PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

• Phone : +91-172- 2240121 • Fax : +91-172-2240124 • <http://www.iisermohali.ac.in> • Email: [stores@iisermohali.ac.in](mailto:stores@iisermohali.ac.in)

CPPP/Institute Website

## ई - निविदा आमंत्रण सूचना / NOTICE INVITING E-TENDER

Tender Ref.- IISERM(1627)23/24-Pur-GTE	Dated : 11 <sup>th</sup> October 2023
--	---------------------------------------

### Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	11 <sup>th</sup> October 2023	6:00pm
2.	Tender Document download start Date & Time	11 <sup>th</sup> October 2023	6:00pm
3.	Bid Submission start Date & Time	11 <sup>th</sup> October 2023	6:00pm
4.	Bid Submission End date and Time	01 <sup>st</sup> November 2023	Upto 02:00pm
5.	Tender opening Date and Time	02 <sup>nd</sup> November 2023	At 3:30pm

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in). Online Tender fee of Rs 590/- (Non-refundable) should be submitted by bidder in favour of IISER Mohali through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790). However, scanned copy of the Tender fee/UTR copy should be uploaded on website along with technical bid. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.**

**Bidders will also be required to execute bond/undertaking Bid Security Declaration Form attached as ANNEXURE-I for availing exemption to submit Tender Fee.**

## ITEM WISE DETAILS

S. No.	Description	Qty. (in units)
1.	Supply and Installation of Climate Controlled Plant Growth Cabinet with accessories.  <b><u>Technical Specification: As per Annexure II.</u></b>	01

### **A) IMPORTANT NOTES:-**

- I. **The online updated Price BOQ is in INR format. If bidder want to quote other than INR please specify the quoted currency in the Technical Bid/Part and fill the amount in same updated BOQ.**
- II. **Please bifurcate the price on shipping terms i.e. Ex-works -> FCA/FOB -> CIP/CIF in price BOQ and specify the same in technical bid without price.**
- III. **If quoted in foreign currency, kindly clearly specify the terms of delivery/country of origin/bank details with swift code/weight/size/dimension of shipment.**
- IV. **Restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 under sub clause 3, in terms of DOE, MoF No. F.18/37/2020-PPD dated: 8<sup>th</sup> February, 2021:**
  - (i) A bidder is permitted to procure raw material, components, sub-assemblies etc. from the vendors from countries which shares a land border with India. Such vendors will not be required to be registered with the Competent Authority, as it is not regarded as "sub-contracting".
  - (ii) However, in case a bidder has proposed to supply finished goods procured directly/indirectly from the vendors from the countries sharing land border with India, such vendor will be required to be registered with the Competent Authority.
- V. **The Online bids should be submitted directly by the original manufacturer/supplier/OEM, the OEM is required to furnish certificate to this effect. If quotation is submitted/filled by any representative/ agent/dealer then they must upload a Authorization Authority certificate from the principal company/OEM.**
- VI. **All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.**
- VII. **Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.**

### **B) SUBMISSION OF TENDER**

- I. All bid/tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained. Also upload **Annexure I** (Bid Securing Declaration Form) if registered as **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments.** Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (S&P), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.

III. **The bidder shall upload the tender documents/NIT duly filled in and stamped by the authorized signatory on each and every page along with all Annexures as per NIT along with checklist. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.**

**Check List of Documents (signed & stamped) to be provided and uploaded by the bidder:**

S. No.	Particulars of Documents	Yes/No	Page No. (As per technical bid)
1.	<b>Tender Notice Document Copy of NIT (duly signed and stamped)</b>		
2.	Undertaking Bid Security Declaration Form – <b>Annexure-I (on letter head duly signed and stamped)</b>		
3.	<b>Technical Specification/Compliance Sheet with product catalogue/brochure etc. to be furnished in Annexure-II along with currency quoted.</b> (all technical requirements and specifications as per <b>Annexure-II</b> ). <b>(duly signed and stamped)</b>		
4.	<b>Pre-Qualification criteria:</b> a) The OEM must have supplied at least 5 similar cabinets to premier organizations / Reputed Private Industries. Please attach National / International reference list of supplies. b) Copies (2) of Purchase Orders must be attached. c) Authorization certificate for representation & service Support without which bid will be rejected. These criteria are proof of accountable service support by OEM & local partner.		
5.	<b>Authorization/MAF Certificate</b> from OEM (principle)/ Manufacturer certificate, if applicable <b>(signed copy)</b>		
6.	<b>Tender Fee</b> , if applicable or Exemption Certificate (NSIC/MSME Certificate) <b>(duly signed and stamped)</b>		
7.	<b>Attached copy of PAN Card</b>		
8.	<b>Attached copy of GST</b>		

*\* If checklist is not provided by the bidder alongwith ABOVE DOCUMENTS the bid shall be summarily rejected.*

IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. **Also bidders applying against ‘MSME/NSIC Certificate’ issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for “supply & installation of Desktop” the certificate should be issued for activity/area of “Computer supply and services activities etc” otherwise bid will be REJECTED without notice.**

V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

## **INSTRUCTIONS**

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.
3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside

Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Conditional tenders will be summarily rejected.

4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
5. **Custom Duty, applicable as per GOI Norms.**
6. **GST, applicable as per GOI Norms.**
7. **Bidder/s quoting in currency other than Indian Rupee (INR) should explicitly mention the currency (USD, Euro, JPY, CHF and Pound-Sterling etc.) in which tender quoted wherever applicable in Technical Bid along the tender documents. BOQ is in INR format.**
8. The delivery period should be specifically stated. Earlier delivery will be preferred.
9. **The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets & literature of the article quoted and also should enclose Technical Compliance Sheet. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars and documents, the quotation is liable for rejection. Tenders not accompanied by detailed information as required, are liable to be rejected.**
10. Validity of offer: 180 days.
11. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/Performance Bank Guarantee @ 5% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020, extension of vide circular no. F.9/4/2020-PPD dated: 30<sup>th</sup> December 2021 and No. F.1/2/2023-PPD Dated: 03.04.2023* as per norms may be sought from the firms.
12. The right to reject all or any of the quotation and to split up the requirements for itemized L-1 or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
13. If any information furnished by the bidder is, at any stage found to be incorrect, false or fabricated, the Institute/purchaser shall have the absolute right to forfeit E.M.D. and security deposits, in addition to cancellation of contract, forfeiting the warranty/performance Guarantees and other action in accordance with law, such as black-listing, risk & cost etc.
14. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-Sd-

सहायक कुलसचिव (क्रय तथा भंडार)  
Assistant Registrar (Stores & Purchase)

**ANNEXURE-I**

**Bid Securing Declaration Form**

Date: \_\_\_\_\_ E-Tender No. \_\_\_\_\_ E-Tender ID \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)  
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)  
Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)  
Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PS: *Furnish the above in original stationary/letter head with signed and sealed.*

## ANNEXURE-II

### Technical Specification of Climate Controlled Plant Growth Cabinet

S. No.	Category	Specification details
1.	Type	<b>Plant Growth Cabinet 540 litres or more</b>
2.	Tiers / No. of shelves	4 tier, easily removable and height adjustable, 4 shelves or more
3.	Total Internal Area	600 mm width x 680 mm depth x 1330 mm height
4.	Total Growth Area	≥ 1.36 m <sup>2</sup> ; at least 0.34 m <sup>2</sup> area per shelf.
5.	Maximum Growth Height	Growth height of at least 200mm in 4 tier operation required. Going up to 1.33m with multi step adjustable shelves to decrease / increase the working height according to the experiment demand.
6.	Door	Light tight solid door, should be scratch and alcohol resistance, condensation free. Magnetic Gasket providing tight Seal door frame.
7.	Outer material	Galvanized steel in light gray plastic powder coated (long lasting) finish or better.
8.	Exterior Dimensions	Not more than 960 mm Width x 750 mm Depth x 2000 mm Height
9.	Interior housing	Rust Free durable Reflective coated / highly resistant Stainless Steel Interior with white epoxy paint (SS 304 / SS316 or better). With 1 port hole for external device, 2 <sup>nd</sup> port hole for fresh air, with water drain in floor.
10.	Insulation	Polyurethane foam (PUF). CFC-free with air tight seal between panels.
11.	Temperature range	+ 5°C to 45°C lights ON ; -5°C to 45°C lights OFF With Independent adjustable thermostats for maximum & minimum temp. safety limits.
12.	Temp. uniformity	+/- 0.5 °C Uniformity in time ; +/- 1.0 °C Uniformity in space
13.	Temp. Accuracy	+/- 0.1 °C increments on the controller
14.	Humidity range & System	40% to 80% rH lights ON ; 40% to 95% rH lights OFF Humidification with Ultrasonic Humidifier. Dehumidification & Drying by condensation effect on the cooling evaporator. Should have configurable Humidity Safety Alarms, with adjustable maximum and minimum humidity limits, Visual and audible alarms. Zero maintenance capacitive humidity sensor.
15.	Humidity Uniformity	+/- 1% Uniformity in time ; +/- 2% Uniformity in Space
16.	Humidity	+/- 1% increments on the controller

	accuracy	
17.	Air circulation / Air Speed control	Horizontal uniform air flow 0.2 m/s in the cabinet. User specific control of speed of the circulating air, from 50% to 100% with variable speed fan.
18.	Light period control	Required , programmable on controller with LCD / TFT display
19.	Required Light modules	Red (630nm) Light LED Shelf 1 no., Blue (450nm) Light LED Shelf 1 no., Far Red (730nm) Light LED Shelf 1 no., White (Warm 5700K) Light LED Shelf 1 No. upto 450 $\mu\text{mol}/\text{m}^2\text{s}$ intensity
20.	Type of & quantity of light source	The light sources used should be patented / trade mark technology of the PGC manufacture like scibrite / gBrite / 8IIA etc. or from a LED manufacture firm specialized in making plant grow and research lights like Phillips / Osram / Valoya / Heliospectra ( exact make, model & spectra to be provided with full details and description).
21.	Lights module/canopy requirement	LED modules should be available with each shelf / tier. They should be easily detachable without any tools to increase/decrease growth heights and change light types. LED light modules to have long life up to 50000 Hrs.
22.	Light type and direction	All LED tubes lighting downwards; configured for extreme uniform light throughout the shelves with high degree of scattering (preferably 120°)
23.	Intensity Regulator	Facility to independently regulate each color light intensity (separately in each canopy / tier); range of intensity control for each color light should be at least between 10-100%. The intensity regulation shall be through microprocessor- based controller applicable to all fixtures of light modules.
24.	Refrigeration system	Self-contained air-cooled condensing unit with hot gas bypass system, extended life and close temperature control; Solenoid valves for quiet and long-life operation; heating and cooling system adapted to temperature control range; refrigeration system has to be on top of the machine for good heat dissipation and easy service access. CFC/HCFC – Free
25.	Controller Type	Microprocessor based programmable logic or PID 5” Touch screen controller with graphic LCD / TFT display; up to 32 programs; controller on top of chamber with 3 level pass word protection facility; with audio-visual alarm for high/low value display set; with facility to regulate light and day/night cycles; with variable scheduling for day/night timings for temp., humidity and lights; controller to have machine overview function with 10 inbuilt sensors (pressure & temp.) with visibility of all internal machine parameters (suction/discharge pressures & temps. of refrigeration unit, condenser & evaporator etc.) on control panel. A log of all machine parameters to be available for quick analysis and fast rectification of machine faults.
26.	Safety Feature Required	Over temperature alarm and protection device; compressor over temperature; over pressure protection; Over current protection; Compressor delay start protection.



27.	Electrical Operation	The equipment's should be functional under standard Indian electricity supply condition (i.e., 1/N/PE AC 220-230V $\pm$ 10%; 50Hz); with auto-restart facility after power failure. Machine supplied to be as per international norms and with UL/CE certification of unit and all electrical & mechanical components. Certificates to be enclosed with bid.
28.	<b>Warranty</b>	<b>Minimum 2 Years (comprehensive)</b>
29.	Other Mandatory Requirements	Without the exact mention of specification details & description for all points of the plant growth chamber model (being proposed) the presented model will be liable for disqualification in the technical verification round.
30.	Other Mandatory conditions	<ul style="list-style-type: none"> <li>• Assurance for availability of all spares for at least 10 years after procurement.</li> <li>• Major machineries should not occupy bottom space of the growth chamber and should be top/side mounted to make plant samples easily accessible to researchers with short height and for small footprint of the chamber; an actual image of quoted PGC model is required in/with provided catalog/documents.</li> <li>• Exact specification and detailed description of various system/ accessories that will be provided in the model need to started clearly which must include (but not limited to) the following: <ul style="list-style-type: none"> <li>a) Exact growth area (per tier and total)</li> <li>b) Exact growth height (for all the tier separately)</li> <li>c) Exact description of heating and cooling system</li> <li>d) Exact humidity range/uniformity /accuracy and humidifier type/ model and description</li> <li>e) Exact modal and supplier of light module with specific and exact description of provided colors, wavelength, (w/exact intensity and each color), light regulation etc. per point no.</li> </ul> </li> </ul> <p>The specifications &amp; offered equipment in the tender must be confirmed by a statement by OEM (if they are not part of standard configuration) and if not depicted on the website of OEM. Mere statement by local dealer will not qualify the offer technically.</p>
31.	Manufacture, Availability Assembly and Testing	<ul style="list-style-type: none"> <li>• The model, its specification and its available modification/ accessories must be presented in the manufacturer's catalogue on day before the first day of public display of the tender call. The product must be part of serial production of the OEM and not a one-off model.</li> <li>• Mere copy-pasting from the asked specification list (completely or partially) will lead to disqualification in technical verification round.</li> </ul> <p>Provide user list (with contact details) where same unit has been delivered.</p>
32.	<b>Special Care while mentioning price</b>	<b>All quoted price must be inclusive of all accessories/requirements.</b>

33.	We reserve the right to accept or discard the offer if any specification other than what has been mentioned is presented and also the validity of the document presented in support of claim or exact specification/desired specification.
34.	<b>All documents / catalogue to prove the claim and description needs to be furnished with bid, without which claim will not be acceptable.</b>
35.	<b>Vendors must provide authorized documents of distributor / dealership from the OEM for selling the specific Equipment.</b>
36.	<b>Assurance for on-site service</b> by authorized personal within 3-4 working days in case of any future complaints about the equipment malfunction.
37.	<p><b>Pre-Qualification criteria:</b></p> <ol style="list-style-type: none"> <li>1. <b>The OEM must have supplied at least 5 similar cabinets to premier organizations / Reputed Private Industries. Please attach National / International reference list of supplies.</b></li> <li>2. <b>Copies (2) of Purchase Orders must be attached.</b></li> <li>3. <b>Authorization certificate for representation &amp; service Support without which bid will be rejected. These criteria are proof of accountable service support by OEM &amp; local partner.</b></li> </ol>
	<ul style="list-style-type: none"> <li>• Technical bids will be evaluated based on the information provided in the specification sheet and will be corroborated with supporting documents and information available on the website of supplier/manufactures</li> <li>• <b><u>Compliance sheet with Yes/No is required for tender specifications</u></b></li> </ul>