



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर-81, नॉलेज सिटी, प० ओ० मनोली, एस० ए० एस० नगर, मोहाली, पंजाब 140306

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Human Resource Development, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab

PAN No. - AAAAI1781K GSTIN No:- 03AAAAI1781K2ZS

• Phone : +91-172-2240086 & 2240121 • Fax : +91-172-2240124, 2240266 • <http://www.iisermohali.ac.in> • Email: stores@iisermohali.ac.in

CPPP/Institute Website

IISERM (1209)19/20Pur

Dated: 06th June 2019

NOTICE INVITING E-TENDER

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of Plant Growth Chamber for Arabidopsis** 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.

-sd-

(Mukesh Kumar)
Assistant Registrar (S&P)



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E-TENDER NOTICE

Tender Ref.- IISERM(1209)19/20Pur

Dated :- 06th June 2019

Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	06 th June 2019	6:00pm
2.	Tender Document download start Date & Time	06 th June 2019	6:00pm
3.	Bid Submission start Date & Time	06 th June 2019	6:00pm
4.	Bid Submission End Date and Time	26 th June 2019	Up to 11:00am
5.	Tender opening Date and Time	27 th June 2019	At 11:30am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and commercial separately} for the 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. Tender fee in shape of DD/Banker Cheque of Rs 590/- (Non-refundable) and EMD of Rs 40,000/- should be submitted by DD /Banker Cheque/FDR/ Bank Guarantee in favour of the Registrar, IISER Mohali payable at Mohali. However, scanned copy of the both tender fee and EMD should be upload on website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summerly.

The Original EMD and Tender Fee should be sent to:

Assistant Registrar (S&P)
Indian Institute of Science Education and Research Mohali
Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab,
India, Pin: 140306

Non-receipt of original EMD and Tender Fee will lead to rejection of tender.

Item Details: -

Sr.	Description	Qty. (in units)
1.	Supply and Installation of Plant Growth Chamber for Arabidopsis <u>Technical Specification</u>- AS PER ANNEXURE-A	01

NB:-

- 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.

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 except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), 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 duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- 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. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. 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. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY under notification no- TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
8. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.
9. The delivery period should be specifically stated. Earlier delivery will be preferred.
10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
11. Validity of offer: 90 days. 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/ Bank Performance Guarantee @ 10 % of the value of supply order 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 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. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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(Mukesh Kumar)
Assistant Registrar (S&P)

TECHNICAL SPECIFICATIONS OF PLANT GROWTH CHAMBER FOR ARABIDOPSIS

A	<p>Important Technical Specifications:</p> <ol style="list-style-type: none"> 1. Interior dimension: 10'L x 8'W x 8'H 2. Growth height should be minimum 20 inches at each tier. 3. The total growth area should not be less than 75 square feet in the chamber. 4. Temperature range: 05 - 40°C; 5. Relative humidity range between 20°C~40°C: 60%~90%RH; 6. Temperature uniformity: $\leq 1^{\circ}\text{C}$ 7. Humidity accuracy: $\pm 3\%$ RH; 8. The noise from the machinery should be less than 70dB
B	<p>Cabinet Structural Features</p> <ol style="list-style-type: none"> 1. Exterior shell materials should be of PP with at least 0.5 mm thickness. 2. Interior shell materials should be stainless steel sheet with at least 0.5 mm thickness. 3. Heat insulation materials: Hard Poly Urethane foamed plastic of 4" thickness; 4. Puff density should be equivalent to 40kg/m³ 5. Door should be of Aesthetic, efficient, heavy-duty flush-fit with thermal break perimeter to avoid thermal conductivity. 6. Posi-lock locking assemblies that provide perfect alignment between walls, ceiling, floor, corners and doors frames. 7. Door hardware should be heavy duty cast alloy handles and hinges with attractive brushed chrome finish. 8. Single wing door of minimum 3feet W×6 feet H with inner viewing window facility with lock and key and fitted with sweeping gasket and glass.
C	<p>Air-conditioning System</p> <ol style="list-style-type: none"> 1. Regulation and control: Uniform re-circulated air (horizontal airflow) in the room by roof suspended SS cooling unit; 2. Heating: Tubular Stainless-steel sheeted heater (surface evaporating system). There should be no direct radiation of heater on the plants. 3. Ultra-fogging Humidification to be provided 4. Ultra-fine mist of 2-3 microns should be maintained. 5. Humidifiers should withstand operating temperature between 0 to 50 degrees. 6. Evaporating unit should be of stainless-steel body and inner grooved copper tubes for superior heat transfer. 7. Low noise level should be maintained by external rotor driven fans.
D	<p>Illumination and lights</p> <ol style="list-style-type: none"> 1. Light intensity over each growth area should not be less than 200 Micromoles. 2. Four white lights with complete fittings should be provided in each tier 3. Four Numbers of 4.6''W x 2.0''D x 6.0''H shelving systems each with three tier each and individual Light for each tier 4. Each shelf should be powder coated and should have Independent ON/OFF switch. 5. Each Shelf should be Corrosive resistance and height adjustable. 6. Lamp Heat to be removed by the conditioning system. 7. Programming (Light/Dark) control for the Lamps should be by Controller. 8. Dimmable light option is required 9. Additional lamps should be provided 10. Suitable photometer should be provided
E	<p>Cooling System</p> <ol style="list-style-type: none"> 1. Single Scroll Compressor system Should be used for maintaining the temperature in chamber. 2. Environment friendly refrigerant R404A to be used

F	Control system
	<ol style="list-style-type: none"> 1. Temperature measurer and sensor: Shielded heat resistance RTD 2. Actual Temperature displayed should be average of two sensors placed at different locations inside the chamber (which means more uniform/stable) 3. Humidity sensor should be Capacitive humidity sensor. 4. Touch screen controller should display all the parameters (Set & actual values) 5. Resolution: Temperature: 0.1°C, Humidity: 0.1%RH, 6. Set-range: Temperature: 05°C~ +40°C; Humidity: 60% ~ +90%RH 7. Audible and color-coded visual alarms should be provided. User-settable absolute alarms for all controlled processes 8. Password-protected levels for user menu & service menu 9. Chambers can be programmed with varying restart times to reduce start-up loads after a power failure. 10. Controller should be able to run in Manual mode (single setpoint without timelines) & Program mode (multiple setpoint with various timelines) 11. Complete diagnostics of the system to be checked independently from the controller directly 12. Chamber should be able to operate from desktop also. 13. Data and Graphs should be retrieved at any point of time after the test from the system connected to the chamber.
G	Security protection system:
	<ol style="list-style-type: none"> 1. User variable High temperature & Low temperature protection 2. Overload protection of motor 3. High Pressure & Low-pressure protection for compressor 4. Single Phase failure & preventer safety 5. Compressor feedback safety 6. Cooling Fan feedback safety 7. Fuse for control and lighting circuit 8. Flange mount disconnect for power 9. Humidity water shortage protection 10. Suitable voltage stabilizer should be provided
H	Equipment working condition
1	Ambient Environment: <ol style="list-style-type: none"> 1. Ambient temperature: 20°C~35°C; 2. Relative humidity: ≤75%RH;
2	Power supply: <ol style="list-style-type: none"> 1. Power voltage: AC415±10% V, 3-phase + ground wire protection; 2. Frequency: 50±0.5Hz; 3. Power switch: Air switch (knife-switch not allowed); Max. Current 35A.
I	Warranty and Maintenance
	Charge-free minimum 1-year warranty from the date of equipment installation.
	Additional key points: <ol style="list-style-type: none"> 1. Vendor/Agent turnover should not be less than Rs 100 Cr. 2. Vendor/Agent should have a branch office in Punjab for immediate response. 3. Vendor/Agent should have experience of the similar chambers more than 10 years.
K	Compliance sheet with Yes/No is required for each tender specification
	All the points should be highlighted with supporting technical literature and on site demonstration may be called if any doubt.
L	Optional quote separately