



# 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](mailto:stores@iisermohali.ac.in)

CPPP/Institute Website

IISERM (1313-C) 19/20Pur

Dated: 04<sup>th</sup> February 2020

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply & installation of Various Lab Instruments/Equipment's for TBI** 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-

(Mukesh Kumar)  
Assistant Registrar (P&S)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर-81, नॉलेज सिटी, पं० ओ० मनोली, एस० ए० एस० नगर, मोहाली, पंजाब 140306  
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## **E-TENDER NOTICE**

**Tender Ref.- IISERM(1313-C)19/20Pur**

**Dated :- : 04<sup>th</sup> February 2020**

### **Critical Date Sections**

<b>Sr.</b>	<b>Description</b>	<b>Date</b>	<b>Time</b>
1.	Tender Publishing Date and time	04 <sup>th</sup> February 2020	6:00pm
2.	Tender Document download start Date & Time	04 <sup>th</sup> February 2020	6:00pm
3.	Bid Submission start Date & Time	04 <sup>th</sup> February 2020	6:00pm
4.	Bid Submission End date and Time	24 <sup>th</sup> February 2020	Up to 11:00am
5.	Tender opening Date and Time	25 <sup>th</sup> February 2020	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](http://www.iisermohali.ac.in). Tender fee in shape of DD/Banker Cheque of Rs 590/- (Non-refundable) and **EMD of Rs.45,000/-** 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 (P&S)  
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.	<p><b>Supply &amp; installation of Rotary Evaporator System complete with Vacuum Pump &amp; Vacuum Controller and chiller</b></p> <p><b><u>Technical Specifications:</u></b></p> <p><b>A. <u>ROTARY EVAPORATOR</u></b></p> <ol style="list-style-type: none"><li>1. Electronic lift with provisions for automatic lifting of the flask in case of power failure.</li><li>2. Rotation speed up to 250 rpm or better with microprocessor control.</li><li>3. Vertical Glass Assembly with Cooling surface area of 1400 cm<sup>2</sup> or better</li><li>4. Multifunctional combi-clip for easy removal and fixation of evaporating flask</li><li>5. Immersion angle for the use of different flask sizes should have adjustable angle</li><li>6. Digital display for set and actual bath temperature as well as rotation speed .</li><li>7. Digital display for rotation speed.</li><li>8. Microprocessor controlled bath temperature ranging from ambient to 180 deg C or better with an accuracy of <math>\pm 1</math> deg C.</li><li>9. Automatic over heat cut-off protection</li><li>10. Bath capacity- 4 – 5 Liters .</li><li>11. Evaporating flask from 50-3000 ml can be used on the same joint adapter without additional connections. Flasks of 50ml,100ml,250ml and 500ml – 1 each</li><li>12. Vacuum seal – 1 No</li><li>13. 1 liter evaporating flask and receiving flask should be provided in standard scope of supply.</li><li>14. IP 20 Protection Class</li><li>15. CE Certified</li></ol> <p><b>B. <u>VACUUM CONTROLLER</u></b> Measurement range 1000 – 2 mbar</p> <p><b>C. <u>VACUUM PUMP</u></b></p> <ol style="list-style-type: none"><li>1. Two Stage (Heads)/ Speed based vacuum pump</li><li>2. Ultimate vacuum – 2mbar</li><li>3. Chemically resistant diaphragm made of PTFE</li></ol> <p><b>D. <u>RE-CIRCULATING CHILLER</u></b></p> <ol style="list-style-type: none"><li>1. Compact and Robust Re-circulating Chiller</li><li>2. Temperature Range: -10 to RT or more</li><li>3. Temperature display resolution 0.1 °C/K</li><li>4. Chamber Volume 4-5 L</li><li>5. Coolant: CFC Free</li></ol>	01
2.	<p><b>Supply &amp; installation of VACUUM PUMP</b></p> <p><b><u>Technical Specifications:</u></b></p> <ol style="list-style-type: none"><li>1. Two Stage (Heads)/ Speed based vacuum pump</li><li>2. Ultimate vacuum – 2mbar</li><li>3. Chemically resistant diaphragm made of PTFE</li></ol>	01
3.	<p><b><u>Supply &amp; installation of Thermal Cycler for PCR</u></b></p> <p><b><u>Technical Specifications:</u></b></p>	01

1. The system should have at least 96 reaction wells for 0.2ml tubes.
2. Temperature of blocks should be selectable between 4°C to 99°C.
3. The minimum temperature regulation accuracy per well should be  $\pm 0.5^\circ\text{C}$ .
4. The system should have gradient temperature range: 30-99°C.
5. Heating rate of the blocks should be  $\geq 3^\circ\text{C}/\text{sec}$ .
6. Cooling rate of the blocks should be  $\geq 2^\circ\text{C}/\text{sec}$ .
7. The system should have the 'maximum ramp rate'  $4^\circ\text{C}/\text{sec}$  or higher.
8. The system should have similar ramp rates in both gradient and normal operation.
9. The system should have dynamic ramping to ensure all well reach the annealing temperature at same time.
10. The system should have at least  $\pm 0.5^\circ\text{C}$  well-to-well uniformity within 30 sec of arrival at target temperature
11. The minimum temperature regulation accuracy for gradient should be  $\pm 0.5^\circ\text{C}$
12. The system should have gradient capability to optimize PCR reactions in a single run by simultaneously testing minimum eight different temperatures across a range of 20-25° C
13. The system should have at least  $\pm 0.5^\circ\text{C}$  well-to-well uniformity within a row within 30 sec of arrival at target temperature
14. Reaction volume should be 1 to 100  $\mu\text{l}$
15. The system should have high-resolution LCD touch screen display to control and run the system, and to manage files
16. The system should have auto shut off mode when the cycler is idle
17. The system should have auto recovery option in the event of power failure.
18. Customized programming should allow upto 20 steps and 99 cycles.
19. The memory of the system should allow to store at least 400 programs, and it should have the option for unlimited storage with a USB flash drive
20. Power consumption of the system should not be more than 700 watt.
21. Vendors should also supply a 1 KVA online compatible UPS with power backup for minimum 30 min.

4. **Supply & installation of UV-Vis Spectrophotometer with variable temperature and ramping mode accessory**

01

**Technical Specifications:**

1. Optics: Double beam, double monochromator for high resolution with double cuvette option and low stray light.
2. Source: Long-life light source
3. Detector: PMT /Silicon diode detectors for simultaneous sample beam and reference beam measurements with double cuvette options.
4. Measurable range: 190-1100 nm
5. Spectral Bandwidth:  $< 0.2$  nm or better and an option of variable slit width (with 0.02 nm increment or better) range should be clearly mentioned
6. Stray Light:  $\leq 0.02\%T$  at 300 nm
7. Photometric Linear Range: 4 Abs or better
8. Wavelength Accuracy:  $\pm 0.3$  nm or better
9. Wavelength reproducibility: 0.05-0.01 nm or better
10. Photometric Accuracy:  $\pm 0.005$  Abs or better at 1 Abs
11. Baseline Flatness:  $\pm 0.001$  Abs or better throughout UV-Vis range
12. Photometric Stability:  $< 0.004$  Abs or better
13. Photometric noise:  $\leq 0.0003$  Abs or better at 1 Abs

14. Scanning rate: >125,000 nm/min
15. Data collection rate: >200 data points per second
16. Temperature controller: Peltier temperature control system: System having the possibility of ramp sample temperatures up and down between 0 and 100 °C . Necessary accessories like temperature probe, clamps, and water circulation kit, etc. (if any) related to Peltier temperature control system should be supplied. The supplying accessories should be indicated in the bid.
17. Standard Accessories: PC preloaded with UV Workstation and 64-bit operating system and 21.5 inch Widescreen LCD Monitor, Printer & 3 KVA online UPS with 30 min backup. One Pair Quartz Cuvettes 10mm, Peltier temperature controller, software & temperature probe.
18. 1 additional PC (i5) for data analysis and storage
19. **Warranty:** One year from the date of installation.
20. **Extended Warranty/AMC:** Two and Three years from the date of installation (To be quoted as an option). A separate quote for the AMC up to five years should be quoted as an option.
21. **Upgradation:** Future upgradation possibilities and relevant accessories should be indicated
22. **Note:** In case of Proprietary/Patented instrument technology. Relevant documents like manuals, installation files (in a CD/DVD or USB flash drive) should be enclosed. Hardware and software support for extended period of time should be given and indicated.
23. Pre-requirement details for the installation such electrical, and environmental conditions need to be provided.
24. List of installations in academic institutions in India, preferably near to Chandigarh region should be indicated.

**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.**
- III. **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.**
- IV. **Kindly do not quote end of life model.**
- V. **Warranty: All items One year, where not specified against the item.**

### **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 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 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. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-sd-  
(Mukesh Kumar)  
Assistant Registrar (P&S)