



# 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 (1471-2)21/22-Pur

Dated: 23<sup>rd</sup> July 2021

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and installation of “Potentiostat system with channel boards and cables plus UPS”** 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-  
Assistant Registrar (P&S)

**NOTE: This is a domestic Tender according to the DPIIT Order dated 15/07/2017 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. The bidder required to declare on the letter head the percentage of Local content for the quoted instrument and submit with the Technical Bid. Bidder should also give details of the location(s) at which the local value addition is made**



# 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

## **E-TENDER NOTICE**

Tender Ref.- IISERM(1471-2)21/22-Pur	Dated : 23 <sup>rd</sup> July 2021
--------------------------------------	------------------------------------

### **Critical Date Sections**

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	23 <sup>rd</sup> July 2021	6:00pm
2.	Tender Document download start Date & Time	23 <sup>rd</sup> July 2021	6:00pm
3.	Bid Submission start Date & Time	23 <sup>rd</sup> July 2021	6:00pm
4.	Bid Submission End date and Time	12 <sup>th</sup> August 2021	Upto 11:00am
5.	Tender opening Date and Time	13 <sup>th</sup> August 2021	At 11:30am

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). Tender fee in shape of Demand Draft of Rs 590/- (Non-refundable) should be submitted by bidder in favour of the Registrar, IISER Mohali payable at Mohali or through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790) However, scanned copy of the Tender fee should be uploaded on website along with technical bid. The hard copy of the same in original to be sent to the address mentioned below duly superscribing the supply/work name and reference/tender ID on the envelope and same must reach before opening of the bid and if not received before due date the bid will be summarily rejected. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee/EMD 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 EMD.**

### **The Original 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 Tender Fee will lead to rejection of tender.**

## ITEM WISE DETAILS

Sr. No.	Description	Qty. (in units)
1.	<p data-bbox="240 253 1390 331"><b>Supply and installation of “Potentiostat system with channel boards and cables plus UPS”</b></p> <p data-bbox="240 367 564 400"><b>1. Basic requirements:</b></p> <ul style="list-style-type: none"><li data-bbox="288 405 1390 472">a) Multichannel Potentiostat-Galvanostat model - one chassis system with 5 or more independent channel slots</li><li data-bbox="288 477 1390 584">b) The number of channel boards and cables required: 5 or more; Cable length at least 1.5 meter; All cables must be calibrated with the supplied instrument with proper certification.</li><li data-bbox="288 589 1390 1144">c) All channels should have the following specifications:<ul style="list-style-type: none"><li data-bbox="352 622 1098 656">➤ Possibility of independent and simultaneous operation</li><li data-bbox="352 660 927 694">➤ Operate with 2, 3, and 4 electrode modes</li><li data-bbox="352 698 858 732">➤ Compliance Voltage: 18V or better</li><li data-bbox="352 736 1390 770">➤ Applied and measured voltage accuracy: <math>\pm 0.1</math> % of full-scale range or better</li><li data-bbox="352 775 1007 808">➤ Measurable current: 20 nA to 400 mA or better</li><li data-bbox="352 813 874 846">➤ Maximum current: 400 mA or better</li><li data-bbox="352 851 1070 884">➤ Current Resolution: 760pA on 10<math>\mu</math>A range or better</li><li data-bbox="352 889 1390 922">➤ Applied and measured current accuracy: <math>\pm 0.1</math> % of full-scale range or better</li><li data-bbox="352 927 874 960">➤ Applied voltage range: 18V or better</li><li data-bbox="352 965 842 999">➤ Voltage Resolution: 5<math>\mu</math>V or better</li><li data-bbox="352 1003 1102 1037">➤ Data Acquisition speed: 200,000 samples/sec or better</li><li data-bbox="352 1041 1078 1075">➤ AC sine wave amplitude – 1mv to 1000mV or better</li><li data-bbox="352 1079 1161 1113">➤ Should be equipped with Single sine and multi sine facility</li><li data-bbox="352 1117 1337 1151">➤ Future upgradation of 100Amps/50V should be possible for stack testing</li></ul></li><li data-bbox="288 1178 1390 1245">d) The instrument should operate in Bi-stat &amp; N-Stat mode, compatible to work with RDE and RRDE</li><li data-bbox="288 1249 1390 1317">e) Should work for microbial fuel cell/ electrolysis cell /solid-state materials/ Biomaterials testing.</li><li data-bbox="288 1321 1390 1388">f) The system should be able to control through multiple computers – preferably through Ethernet.</li><li data-bbox="288 1393 1390 1460">g) The system should be provided with minimum 2 nos. of external devices control/data recording facility for every channel</li></ul> <p data-bbox="240 1496 635 1529"><b>2. Software Requirements:</b></p> <ul style="list-style-type: none"><li data-bbox="288 1534 1390 1601">a) Voltammetry techniques – Cyclic Voltammetry (CV), Multiple CV, Square Wave Voltammetry, Staircase Voltammetry</li><li data-bbox="288 1606 1390 1673">b) Pulse: Differential Pulse Voltammetry, Normal Pulse, Stripping voltammetry, RNPV, Chronoamperometry, Chronopotentiometry</li><li data-bbox="288 1677 1390 1785">c) Corrosion: Linear polarisation with Tafel slope analysis, Polarisation resistance evaluation, Noise analysis, Critical pitting technique, Potentiostatic/Galvanostatic-Galvanodynamic.</li><li data-bbox="288 1789 778 1823">d) DC polarisation, charge-discharge</li><li data-bbox="288 1827 1390 2002">e) Battery and Supercapacitors Analysis- Rectangular CV analysis at varying scan rates for pseudo capacitor analysis, complete charge and discharge with built-in integration and linkable cut-offs, Galvanostatic charge-discharge with cycle number vs. specific capacitance plot, Voltage measurement on counter electrode, GITT and PITT.</li><li data-bbox="288 2007 1390 2040">f) Solar cell/Fuel cell Studies- Linear polarisation, I-V plotting, IMPS-IMVS</li></ul>	01

evaluation, EQE/IPCE Analysis, Charge extraction, Photo-current response, Mott-Schottky plots for frequency scan, bandgap analysis.

- g) Electro-catalysis/Electro-deposition- ORR analysis using RDE/RRDE at varying rotation speeds and built-in Kotecky-Levich plot generation, HER and OER Tafel based analysis for water splitting, spectro-electrochemistry based LSV, CV and Chrono evaluation
- h) Polarography/Sensors- DPSV, ASV, Chrono Coulometry, etc., amperometric detection protocol, EIS measurement with real-time equivalent circuit fit option.
- i) Electrochemical Software- For all the techniques mentioned above, Equivalent circuit fitting software, CV simulation software, Hybrid measurements such as Spectro electrochemistry, E-SPR, SECM, IMPS-IMVS and EQCM.

### 3. Warranty:

- a) Product warranty against manufacturing defects for at least 2 years and 2 years free of cost AMC after the warranty period.
- b) The supplier should provide free maintenance services during the warranty period. These include Preventive & Routine Maintenance and Breakdown and corrective maintenance.

### 4. Important notes:

- a) A compatible UPS of at least 2 KVA capacity should be provided (preferred makes: Eaton/Emerson/APC/Toshiba/General Electric)
- b) The vendor should have ISO 9001 certification.
- c) All the technical and other specifications must be carefully read and understood before claiming your equipment as “complied.”
- d) Vendors must provide the compliance statement sheet, and any deviation in the specifications mentioned above should be highlighted in remarks.
- e) Valid and authentic supporting documents should be submitted along with the technical bid.
- f) The vendor should have an office or authorized agent in India. Qualified technical and service personnel should be available in/around the region of the installation site in India.
- g) The price should be quoted FOR destination and include freight, installation, and other miscellaneous charges.

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

- I. **This is a domestic Tender according to the DPIIT Order dated 15/07/2017 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. Bidders should also give details of Localtions(s); at which the local value addition is made. Bidders are requested to furnish the declaration regarding local content/locations in Annexure II.**
- II. **The online updated Price BOO is in INR format. Bids are invited in INR only against domestic tender.**
- 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. **All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.**

V. **Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.**

VI. **Warranty: One year, if not specified above.**

## **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 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.

## **C) 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.
12. 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 @ 3% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020* and as per norms may be sought from the firms.
13. 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>
14. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-Sd-  
Assistant Registrar (P&S)

**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 he 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**

**SELF DECLARATION**  
[For Local Content of Products, Services or Works]

To,

The Director  
Indian Institute of Science Education and Research  
(Established by Ministry of Education, Govt. of India)  
Sector-81, Knowledge city, PO-Manauli,  
SAS Nagar Mohali-140306, Punjab

1. With reference to Order no P.-45021/2/2017 PP (BE-II) dated 04.06.2020 and No. P-45021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry, Govt. of India, we fall under the following category of supplier (please tick the correct category) for the items for which this tender has been floated and being bided.

- Class I local supplier – has local content equal to more than 50%. Local contents added at \_\_\_\_\_ (name of location).
- Class II local supplier – has local content more than 20% but less than 50%. Local contents added at \_\_\_\_\_ (name of location).
- Non-local supplier – has local content less than or equal to 20%. Local contents added at \_\_\_\_\_ (name of location).

2. We are solely responsible for the abovementioned declaration in respect of category of supplier. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature & seal of the company

Name and address of the organization

.....  
.....  
.....

**Note:** In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.