



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

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CPPP/Institute Website

IISERM (1471-3)21/22-Pur-GTE

Dated: 09th November 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.

-Sd-

Assistant Registrar (P&S)



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E-TENDER NOTICE

Tender Ref.- IISERM(1471-3)21/22-Pur-GTE	Dated : 09 th November 2021
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	09 th November 2021	6:00pm
2.	Tender Document download start Date & Time	09 th November 2021	6:00pm
3.	Bid Submission start Date & Time	09 th November 2021	6:00pm
4.	Bid Submission End date and Time	02 nd December 2021	Upto 11:00am
5.	Tender opening Date and Time	03 rd December 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. 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/UTR copy should be uploaded on website along with technical bid. The hard copy (if tender fee is paid) 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 Tender Fee.

The Original Tender Fee should be sent to (if not paid online/NEFT):

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 or ANNEXURE-I will lead to rejection of tender.

ITEM WISE DETAILS

Sr. No.	Description	Qty. (in units)
1.	<p>SUPPLY AND INSTALLATION OF “POTENTIOSTAT SYSTEM WITH CHANNEL BOARDS AND CABLES PLUS UPS”</p> <p><u>TECHNICAL SPECIFICATIONS</u></p> <p><u>1. Basic requirements:</u></p> <ul style="list-style-type: none"> a) Multichannel Potentiostat-Galvanostat model - one chassis system with at least 5 independent channel slots b) The number of channel boards and cables required: 6 or more; Cable length at least 1.5 meter; All cables must be calibrated with the supplied instrument with proper certification. c) All channels should have the following specifications: <ul style="list-style-type: none"> • Possibility of independent and simultaneous operation • Operate with 2, 3, and 4 electrode modes • Compliance Voltage: 18V or better • Applied and measured voltage accuracy: ± 0.1 % of full-scale range or better • Measurable current: 20 nA to 300 mA or better • Maximum current: 300 mA or better • Current Resolution: up to 800pA on 10μA range or better • Applied and measured current accuracy: ± 0.1 % of full-scale range or better • Applied voltage range: 18V or better • Voltage Resolution: 5μV or better • Data Acquisition speed: At least 200,000 samples/sec or better • AC sine wave amplitude – 1mv to 1000mV or better • Should be equipped with Single sine and multi sine facility • Future upgradation of 100Amps/50V should be possible for stack testing d) The instrument should operate in Bi-stat & N-Stat mode, compatible to work with RDE and RRDE e) Should work for microbial fuel cell/ electrolysis cell /solid-state materials/ Biomaterials testing. f) The system should be able to control through multiple computers – preferably through Ethernet. g) The system should be provided with minimum 2 nos. of external devices control/data recording facility for every channel <p><u>2. Software Requirements:</u></p> <ul style="list-style-type: none"> a) Voltammetry techniques – Cyclic Voltammetry (CV), Multiple CV, Square Wave Voltammetry, Staircase Voltammetry b) Pulse: Differential Pulse Voltammetry, Normal Pulse, Stripping voltammetry, RNPV, Chronoamperometry, Chronopotentiometry c) Corrosion: Linear polarisation with Tafel slope analysis, Polarisation resistance evaluation, Noise analysis, Critical pitting technique, Potentiostatic/Galvanostatic-Galvanodynamic. d) DC polarisation, charge-discharge 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 	01

number vs. specific capacitance plot, Voltage measurement on counter electrode, GITT and PITT.

- f) Solar cell/Fuel cell Studies- Linear polarisation, I-V plotting, IMPS-IMVS 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 Koutecky-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 Spectroelectrochemistry, E-SPR, SECM, IMPS-IMVS and EQCM.

3. Warranty:

- a) Product warranty against manufacturing defects for at least 3 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) All the technical and other specifications must be carefully read and understood before claiming your equipment as “complied.”
- c) Vendors must provide the compliance statement sheet, and any deviation in the specifications mentioned above should be highlighted in remarks.
- d) Valid and authentic supporting documents should be submitted along with the technical bid.
- e) 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.
- f) The price should be quoted for CIP Delhi and include freight, installation, and other miscellaneous charges.

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. **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.**

- V. **All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.**
- VI. **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 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)/2016 CUSTOM DT. 12.10.2018.
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 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.*