



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास 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 Human Resource Development, Govt. of India)

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

PAN No. - AAAAI1781K TAN NO. PTLI10692D

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*CPPP/Institute Website*

IISERM(910)17/18Pur

Dated- 22<sup>nd</sup> November 2017

### **E-TENDER NOTICE**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial} for the supply & installation of **Multichannel Electrochemical Workstation** as per technical specification given below and BOQ list 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 (S&P)



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### E-TENDER NOTICE

Tender Ref.- IISERM(910)17/18 Pur	Dated :- 22 <sup>nd</sup> November 2017
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#### Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	22 <sup>nd</sup> November 2017	6:00pm
2.	Tender Document download start Date & Time	22 <sup>nd</sup> November 2017	6:00pm
3.	Bid Submission start Date & Time	22 <sup>nd</sup> November 2017	6:00pm
4.	Bid Submission End date and Time	13 <sup>th</sup> December 2017	Upto 11:00am
5.	Tender opening Date and Time	14 <sup>th</sup> December 2017	At 11.30 am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial separately} 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 DD/Banker Cheque of Rs 500/- (Non-refundable) and EMD of Rs. 1,20,000/- 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 summarily.

#### **The Original EMD and tender fee should be sent to:**

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

**Non-receipt of original EMD and tender fee will lead to rejection of tender.**

**Item Details:-**

Sr.	Details of Specifications	Qty.
1.	<p><b><u>Multichannel Electrochemical workstation</u></b></p> <ol style="list-style-type: none"> <li>1. No of channels: 15 (Fifteen) or more, channels.</li> <li>2. System may be supplied in 2 or 3 chassis.</li> <li>3. Electrode type: 2/3/4 electrode mode. Should work for microbial fuel cell/microbial electrolysis cell /solid state materials/ Biomaterials testing. Temperature measurement option should be provided for every channel along with the cell voltage.</li> </ol> <p><b><u>4. Basic requirements:</u></b></p> <ol style="list-style-type: none"> <li>I. All the channels should be independent</li> <li>II. Should be able to operate simultaneously</li> <li>III. All channels must have floating facility</li> <li>IV. Instrument should operate in Bi-stat &amp; N-Stat mode</li> <li>V. Should be compatible to work with RRDE &amp; RDE</li> <li>VI. All channels must have option to access from several individual computers</li> <li>VII. Compliance Voltage Range: +/- 10V</li> <li>VIII. Voltage accuracy: 0.1% or lesser</li> <li>IX. At least 10 channels must have 16V or more compliance voltage</li> <li>X. Compliance current: 100 nano amps to 400 mAmps</li> <li>XI. Current Accuracy: 0.1% or lesser</li> <li>XII. Minimum two channels with EIS facility.</li> <li>XIII. EIS Freq Range:</li> <li>XIV. 10uHZ to 1Mhz or more for one channel</li> <li>XV. 10uHZ to 7 Mhz or more for one channel</li> <li>XVI. Sweep Mode: Potentio/ Galvano mode –</li> <li>XVII. Sine amplitude: 1mV to 1000mV or more, few mA to 100mA or more</li> <li>XVIII. Electrometer Bias current: 5pA</li> <li>XIX. Data acquisition rate should be 200000 samples/sec or more</li> <li>XX. Additional Voltage recording: In addition to 2/3/4 electrode, min 2 or more additional synchronised voltage recording facility. (Should be synchronised along with Main I/V measurement)</li> <li>XXI. Additional Recording Voltage range: +/- 10V, with 16 Bit resolution</li> <li>XXII. At least 6 nos. channels should be supplied along with 2 M or higher length cable – cable must be calibrated with the supplied instrument with proper certification. All other channels must have 1 M or higher length cable with calibration certification form the factory.</li> </ol> <p><b><u>5. Software options: Software Requirements:</u></b></p> <ol style="list-style-type: none"> <li>I. Voltammetry techniques- CV, Multiple CV, SWV, Staircase Voltammetry, ACV</li> <li>II. Pulse: DPV, Normal Pulse, RNPV, Chronoamperometry, Chronopotentiometry</li> <li>III. Energy: charge/discharge Constant potential, Constant current, Constant power, Constant resistance/load, Calculation efficiency of cycle, Columbic efficiency Determination</li> <li>IV. EIS: freq sweep – Log / linear, Sweep DC bias with freq</li> <li>V. Software should have facility to control external thermostat/ chambers etc. (Neslab/ Espec etc..)</li> <li>VI. Should have facility to record voltage input from External signal</li> <li>VII. Should be able to deliver +/-10V output to control devices.</li> <li><b>VIII.</b> EIS &amp; CV analysis &amp; simulation software should be available.</li> </ol>	01

**NB:-** 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.

**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.
- 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- 51/96 – CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2016 DT. 30/08/2016 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. The delivery period should be specifically stated. Earlier delivery will be preferred.
8. 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.

9. 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.
10. 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>
11. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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