



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

• 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 (859)17/18-Pur

Dated :12.09.2017

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of Director, IISER Mohali in **SINGLE BID SYSTEM** for laundry services for **Supply and Installation of Electrochemical Workstation with Spectroelectro-chemical setup** from reputed companies/firms/ individuals/ societies etc. those are in the similar business 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)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

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## **E-TENDER NOTICE**

Tender Ref.- IISERM(859)17/18-Pur

Dated :- 12<sup>th</sup> Sept 2017

### **Critical Date Sections**

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	12 <sup>th</sup> Sept 2017	6:00pm
2.	Tender Document download start Date & Time	12 <sup>th</sup> Sept 2017	6:00pm
3.	Bid Submission start Date & Time	12 <sup>th</sup> Sept 2017	6:00pm
4.	Bid Submission End date and Time	03 <sup>rd</sup> Oct 2017	Up to 11:00am
5.	Tender opening Date and Time	04 <sup>th</sup> Oct 2017	At 11.30 am

Online tenders are invited on behalf of the Director, IISER Mohali in **SINGLE 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 DD/Banker Cheque of Rs 500/- (Non-refundable) and EMD of Rs.20000/- 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. No.	Details of Specifications of the Stores	Qty.
1)	<p data-bbox="233 257 1361 331"><b>Supply and Installation of Electrochemical Workstation with Spectroelectrochemical Setup</b></p> <p data-bbox="233 371 596 405"><b><u>Technical Specifications :</u></b></p> <p data-bbox="284 412 979 445"><b>1) Electro chemical Workstation Potentiostat</b></p> <ol data-bbox="284 450 1291 875" style="list-style-type: none"><li>2) Zero resistance ammeter</li><li>3) 2- or 3- or 4-electrode configuration</li><li>4) Floating (isolated from earth) or earth ground</li><li>5) Maximum potential: <math>\geq \pm 10</math> V</li><li>6) Maximum current: <math>\geq 200</math>mA</li><li>7) Compliance Voltage: <math>\geq \pm 12</math> V</li><li>8) Potentiostat rise time: <math>\leq 1</math> <math>\mu</math>s</li><li>9) Applied potential resolution: <math>&lt; 0.002\%</math> of potential range</li><li>10) Applied potential accuracy: <math>\sim \pm 1</math> mV, <math>\pm 0.01\%</math> of scale</li><li>11) Applied potential noise: <math>&lt; 10</math> <math>\mu</math>V rms</li><li>12) Measured current range: <math>\pm 10</math> pA to <math>\pm 0.25</math> A in 12 ranges</li><li>13) Measured current resolution: <math>0.0015\%</math> of current range, minimum 0.3 fA</li><li>14) Current measurement accuracy: <math>0.2\%</math> if current range <math>\geq 1e-6</math> A/V, <math>1\%</math> otherwise</li><li>15) Input bias current: <math>&lt; 20</math> pA</li></ol> <p data-bbox="379 882 395 904">I.</p> <p data-bbox="252 911 639 945"><b>Experimental Parameters</b></p> <ol data-bbox="284 952 963 1016" style="list-style-type: none"><li>1) CV and LSV scan rate: <math>&gt; 8,000</math> V/s</li><li>2) Potential increment during scan: <math>0.1</math> mV @ <math>1,000</math> V/s</li></ol> <p data-bbox="233 1050 416 1084"><b>Techniques</b></p> <ol data-bbox="284 1090 794 1440" style="list-style-type: none"><li>1) Cyclic Voltammetry (CV)</li><li>2) Linear Sweep Voltammetry (LSV)</li><li>3) Differential Pulse Voltammetry</li><li>4) Normal Pulse Voltammetry</li><li>5) Bulk Electrolysis with Coulometry (BE)</li><li>6) Open Circuit Potential – Time (OCPT)</li><li>7) Limited version of CV simulator</li><li>8) IR Compensation</li><li>9) External Potential Input</li><li>10) Auxiliary Signal Measurement Channel</li></ol> <p data-bbox="268 1473 549 1507"><b>Software Features</b></p> <ol data-bbox="284 1514 1374 1827" style="list-style-type: none"><li>1) <b>CV simulation and fitting program, user-defined mechanisms / Digisim Equivalent</b></li><li>2) Automatic and manual iR compensation</li><li>3) Current measurement bias: full range with 16-bit resolution, <math>&lt; 0.005\%</math> accuracy</li><li>4) External potential input</li><li>5) Potential and current analog output</li><li>6) Digital input/output lines programmable through macro command</li><li>7) Flash memory for quick software update</li><li>8) Serial port or USB selectable for data communication</li><li>9) Cell control: purge, stir, knock</li></ol>	01 No

## **Spectro electrochemistry Setup**

### **2) Spectrophotometer**

**Spectrometer sensitive from < 250nm to > 950nm.**

**Replacable slits for various slit.**

Dynamic range:	> 1000:1 for a single acquisition
Integration time:	~ 1 ms – 65 seconds
Corrected linearity:	> 99%

#### **ELECTRONICS**

A/D resolution:	16 bit
Strobe functions:	Yes
Gated delay feature:	Yes

### **3) Spectro-Electro Chemistry Cuvette with Accessories**

Quartz Cuvette with 1mm path length

Pt Gauze electrode

Special Pt counter electrode

### **4) Cuvette Holder**

Cuvette Holder optimized for applications from ~ 200-2000 nm, need to have built-in filter slot and spring-loaded ball plungers for precise cuvette positioning.

### **5) UV-VIS-NIR Light Source with optical Fibers**

Deuterium, halogen light source

<b>Specifications</b>	<b>DT-MINI-2-GS</b>
Sources:	Deuterium & Tungsten Halogen
Wavelength Range:	~ 215-1000 nm
Nominal Bulb Power:	> 3W (deuterium)
	> 1 W (tungsten halogen)
Source Lifetime:	~ 1,000 hours

### **6) Software for saving spectra with Kinetics**

A software is needed to create, configure, and connect schematic nodes to read data from devices, transform and combine that data through a library of built-in spectroscopic functions, and then output the results to visual graphs and CSV files. Software should also provide several color-processing features to quickly compute CCT, CRI, chromaticity and other color models.

### **7) Accessories**

Non Aqueous Reference electrode with extra frit – 3Nos

Platinum counter electrode – 1Nos

Glassy Carbon Work

**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 VAT return, Service tax registration 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-TU/V/RG-CDE( 1062)1 201-CUSTOM DATED 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. The bidder are quote and indicate the prices in **[Euro/Dollars]** wherever applicable in Technical Bid furnished along the tender documents.
8. The delivery period should be specifically stated. Earlier delivery will be preferred.
9. 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.
10. 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.
11. 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>
12. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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