



INSTITUTE OF NANO SCIENCE AND TECHNOLOGY, MOHALI

(An autonomous Research Institute of Department of Science and Technology,

Government of India)

Knowledge City, Sector 81, Mohali – 140306, PUNJAB

Phone No: 0172 – 2297000

Website: www.inst.ac.in

F. No. INST/12(315)/2020-Pur

Date: 08/02/2021

To

NOTICE INVITING TENDER

Dear Sir,

Sealed Quotations are invited on behalf of Director, INST Mohali for the purchase of **Bipotentiostat Electrochemical Workstation with Impedance Spectroscopy, RRDE setup and Accessories** so as to reach latest by **2nd March, 2021** on or before 2.00 pm. The Quotations will be opened on the same day at 3.00 pm in the presence of tenderers, if any:

Before quoting, please read the instructions and technical specifications carefully as enclosed.

Note: Please attach the copies of previous supply order to any Government Institutes/ autonomous bodies/ PSU, if any, with the quotation and provide the contact person and his contact Nos.

Tender is also available on Institute website: www.inst.ac.in or CPPP website: www.eprocure.gov.in.

Yours faithfully

Sd/-
Chief Finance and Admin Officer



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INSTRUCTIONS

- Inquiry, if any, may be sent by Courier or Speed Post. INST will not be liable for any kind of postal delay.
- The Quotation Should be addressed to the Director INST, Mohali invariably giving on the envelop Quotation for _____, Reference No. With date and due date with time.
- The Quantity mentioned in this inquiry shall be deemed to be only approximate and will not in any manner be binding on the Institute.
- The quotation should be enclosed in a sealed envelope.
- Firms will quote separately for each article.
- The rates offered should be FOR Mohali in case of firms situated outside Chandigarh and free delivery at the Institute premises in case of local firms.
- GST: The Institute is not exempted from the payment of GST. The rate (i.e., percentage of taxes applicable should be clearly indicated, wherever chargeable.
- In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Current rate of GST must be mentioned. The institute is exempted from Customs and Excise Duty.
- The delivery period should be specifically stated. Ex-Stock and earlier delivery may be preferred.
- The firms are requested to give detailed description and specifications together with the detailed drawings, printed leaflets and literature of the Article quoted.
- The name of the manufacturers and country of manufacture should also invariably be stated. In the absence of these particulars the quotation is liable for rejection.
- Quotation should have minimum validity of 120 days from the date of opening.
- The rates quoted should be for each item separately otherwise your quotation is liable to be ignored.
- Late or delayed quotation will not be accepted.
- Director has the right to reject to the quotations and to split up the requirements or change any or all the above conditions without assigning any reason.



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NOTICE INVITING TENDER

INST invites tender from the reputed manufacturers or their authorized dealers so as to reach this office on or before scheduled date and time for the instrument, as per specifications given in the Annexure attached to the Tender form. All offers should be made in English and should be written in both figures and words. Tender forms can be downloaded from the website (www.inst.ac.in) of the Institute.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise. The Director, INST reserves the right to select the item (in single or multiple units) or to reject any quotation wholly or partly without assigning any reason. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

EQUIPMENTS LIST

S. No.	Item Description	Qty	Tender Submission Date and Time	Tender Opening Date and Time	Tender Fee	EMD
1	Bipotentiostat Electrochemical Workstation with Impedance Spectroscopy, RRDE setup and Accessories	01 No	02/03/2021 upto 2.00PM	02/03/2021 at 3.00PM	Rs.590/-	BID Security Declaration as per form attached

Note: The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to wrong addressee.

TERMS AND CONDITIONS

Important Conditions of the tender to be abide by the tenderer

- Due date:** The tender has to be submitted before the due date. The offers received after the due date and time will not be considered.
- Preparation Bids:** The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid. The Technical bid and the financial bid should be put in separate covers and sealed. Both the sealed covers should be put into a bigger cover along with letter of EMD/BID Security Declaration and to be sealed. The tender number and details should be superscripted on the left side of the outer cover. The Quotations should be valid for 180 days from the date of opening of tender. The Quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to **"The Director, Institute of Nano Science and Technology, Knowledge City, Sector 81, Mohali, 140306, Punjab, India"** so as to reach on or before the due date.
- Delivery of the tender:** The tender shall be sent to the addressee given in para 2 (above) either by post or by courier so as to reach our office before the due date specified in our Schedule. The offer/bid can also be dropped in the tender box on or before the due date specified in the schedule. The tender box is kept in Foyer area of INST.
- Opening of the tender:** The offer/bid will be opened by a committee duly constituted for this purpose. The bidders if interested may participate on the tender opening Date and Time. The



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bidder should produce authorization letter from their company to participate in the tender opening. Only one representative will be allowed to participate in the tender opening.

5. **Acceptance/Rejection of bids:** The INST reserves the right to reject any or all offers without assigning any reason.
6. **EMD:** Tender fee/EMD is to be obtained from the bidders except those who are registered with the Central Purchase Organisation, National Small Industries Corporation (NSIC) or the concerned Ministry or Department. The tenderer should submit Tender Fee/EMD amount as per tender ref. no. through NEFT/RTGS in INST Account. Account Details are as follows:
 - a. Name of Beneficiary: Institute of Nano Science and Technology (INST)
 - b. Account No. **2452201001102**
 - c. Name of Bank: **Canara Bank, Sector 34, Chandigarh**
 - d. IFS Code: **CNRB0002452**
 - e. MICR Code: **160015003**
 - f. Swift Code: **CNRBINBBFFC**

The details of transaction for EMD viz. Name of bidder firm, Tender Description, Transaction ID/No. of Transfer, Transaction date, Amount of Transaction, Name of Bank, Address of Bank shall be furnished by the tenderer on their letterhead separately along with their tender.

7. **Performance Security:** The supplier shall be required to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is equal to the 3% of Purchase value at the time of the installation of the equipment covering warranty period of the equipment and should be kept valid for a period of 60 days beyond the date of completion of warranty period.
8. **REASONABILITY OF PRICES :**

Please quote best minimum prices applicable for a premier Research Institution, **leaving no scope for any further negotiations on prices.** **The quoting party should give a certificate to the effect that** the quoted prices are the minimum and they have **not quoted** the same item on lesser rates than those being offered to INST to any other customer nor they will do so till the validity of offer or execution of the purchase order, whichever is later. We request you to fill the price reasonability certificate format in the enclosed file (Annexure "1")

The party must give details of identical or similar equipment, if any, supplied to any CSIR labs/DBT Institutes during last three years along with the final price paid and Performance certificate from them.
9. **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
 - For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
 - If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
10. **Risk Purchase Clause:** In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.



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11. **Packing Instructions:** Each package will be marked on three sides with proper paint/indelible ink, the following:
 - i. Item Nomenclature
 - ii. Order/Contract No.
 - iii. Country of Origin of Goods
 - iv. Supplier's Name and Address
 - v. Consignee details
 - vi. Packing list reference number
 12. **Delivery of Goods:**

Delivery should be given at **Institute of Nano Science and Technology, Knowledge City, Sector 81, Adjacent to IISER, Mohali - 140306, Punjab** within a maximum of one month's time from the date of placement of purchase order.
 13. **Delayed delivery:** If the delivery is not made within the due date for any reason, INST will have the right to impose penalty @ 0.5% per week and the maximum deduction is 10% of the contract value / price.
 14. **Prices:** The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated. The price should be quoted without custom duty and excise duty, since INST is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. **(Please refer Annexure – 2 for the price to be quoted).**
 15. **Notices:** For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.
 - i. **Purchaser:** The Director,
Institute of Nano Science and Technology,
Knowledge City, Sector 81, Adjacent to IISER, Mohali – 140306, Punjab
 - ii. **Supplier:** (To be filled in by the supplier)
.....
.....
.....
 16. **Resolution of Disputes:** The dispute resolution mechanism to be applied pursuant shall be as follows:
 - i. In case of Dispute or difference arising between the Purchaser and the supplier relating to any matter arising out of or connected with this contract, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, Institute of Nano Science and Technology (INST) Mohali and if he is unable or unwilling to act, to some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
 17. **Applicable Law:** The place of jurisdiction would be Mohali (Punjab) INDIA.
 18. **Right to Use Defective Goods**

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.



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19. **Training**

The Supplier is required to train the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.

20. **Installation & Demonstration**

The supplier is required to do the installation and demonstration of the equipment within one month of the arrival of materials at the INST site of installation, otherwise the penalty clause will be the same as per the supply of materials.

21. **Warranty:** Minimum Two Years Warranty shall have to be provided by the firm. The Warranty should be comprehensive on site.

Note: If the OEM warranty is for 12 Months, additional extended warranty of 12 months should be quoted separately with or without price.

22. **AMC:** Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next five years after warranty period is over should be quoted separately.

23. **Taxes and Duties**

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.

24. **Payment:** 100% payment shall be made by the Purchaser after delivery, inspection, successful installation, commissioning and acceptance of the equipment at INST in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 8 of tender terms and conditions.

25. **User list:** Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.

26. **Manuals and Drawings**

- Before the goods and equipments are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.
- Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.

27. **Site Preparation:** The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

28. **Acknowledgement:** It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.

SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE COMPANY WITH DATE



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BID PARTICULARS

1. Name of the Supplier :
2. Address of the Supplier :
3. Availability of demonstration of equipment : Yes / No
4. Tender cost enclosed: : Yes/No if yes
5. Online EMD submission information enclosed : Yes / No if Yes

Transaction ID/No. of Transfer_____

Transaction date: _____

Amount of Transaction_____

Name of Bank_____

Address of Bank_____

6. Name and address of the Officer/contact person to whom all references shall be made regarding this tender enquiry

Name:

Address:

Ph:

Fax:

Mobile:

Email:

Web:



Compliance statement for the tender specifications

Tender Ref No.: **INST/12(315)/2020-Pur**

S.No.	Check list of documents/Undertakings	Yes/No	Remarks (give explanation if the answer is No)
1.	Is EMD details attached? (if applicable)		
2.	Is the bidder original equipment manufacturer (OEM)/authorised dealer?		
3.	If authorised dealer, recent dated certificate to this effect from OEM, attached or not?		
4.	Undertaking from OEM regarding technical support & extended warranty period		
5.	Validity of 120 days or not?		
6.	Price Reasonability Certificate enclosed as per format??		
7.	Undertaking from bidder regarding acceptance of tender terms & conditions		
8.	Whether list of reputed users (along with telephone numbers of contact persons) for the past three years specific to the instrument attached?		
9.	Does the instrument comply with all the specifications detailed? Attach a separate sheet showing compliance with the specifications and explanations thereto if the equipment varies from the requested specifications.		
10.	Whether free Installation, Commissioning and Application Training offered?		
11.	Whether comprehensive onsite warranty offered?		
12.	Whether Annual maintenance after expiry of comprehensive onsite warranty quoted separately?		
13.	Whether free of cost shifting of instrument from transit campus to main campus offered?		



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Annexure – 1

PRICE REASONABILITY CERTIFICATE

This is to certify that we have offered the maximum possible discount to you in our Quotation No. _____ dated _____ for (Value Rs.) _____.

We would like to certify that the quoted price are the minimum and we have not quoted the same item on lesser rates than those being offered to INST to any other customer nor we will do so till the validity of offer or execution of purchase order, whichever is later.

Seal and Signature of the tenderer



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Annexure - 2

Name of Equipment with Model No: _____

Name & Address of Manufacturer: _____

Price Quoted

A. For Indigenous Equipment

- I. Cost of equipment (Rs.) _____
- II. GST (Rs.) _____
- III. Any other charges (Rs.) _____
- IV. Total cost of equipment (in Rs.) F.O.R, INST, Mohali _____

B. For Imported Equipment

- I. Cost of equipment (In Foreign Currency) _____
- II. Packing and Forwarding _____
- III. FOB/FCA Price _____
- IV. Freight charges upto Delhi Airport _____
- V. Insurance (110% of the cost of the equipment) _____
- VI. CIF/CIP upto Delhi Airport _____

Signature of Tenderer with date and seal



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Annexure 3

Local Content Certificate (Mandatory with Technical bid envelop)

This is to certify that the %age of Local content for the quoted tendered item is_____.

Seal and signature of the tenderer

Note:

1. As per revised Public Procurement order 2017 D.O. No. P – 45021/2/2017-PP(BE-II) dated June 4, 2020 Local content means Amount of value added in India which shall be total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item(including all customs duties)as a proportion of the total value, in percent.



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BID SECURITY DECLARATION

To
The Director,
INST Mohali

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Bank for the period of time of **3 years**, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity specified in the Letter of Bid; or
- (b) having been notified of the acceptance of our Bid by the Bank during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with tender terms and condition.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

For: Name of Company

Authorised Signatory

[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.]

Technical Specifications for Bipotentiostat Electrochemical Workstation with Impedance Spectroscopy, RRDE set up and Accessories

No. of channels required:

- Two Channels (One with EIS Facility) and possibility to add atleast Three channels or more in future in same chassis
- Bi-Potentiostat facility/ Multichannel Facility and Booster Upgrades should be possible
- Single Chassis only with Multichannel Modular Slots option for Future expansion
- Cell Connection: 2, 3, 4 and 5 electrode and ground or more
- Compliance voltage: 20 V or better
- Applied Voltage: ± 10 V or better
- Maximum Output Current: ± 400 mA or better at ± 10 V
- Current Ranges: ± 10 μ A to 400 mA or better
- Accuracy of applied and measured current: ± 0.1 % of Full scale range or better
- Accuracy of applied and measured Voltage: 0.1% of Full scan range or better
- Potentiostat Rise/fall Time: $< 2\mu$ s or better

Electrochemical Impedance Spectroscopy:

- One or more channel should have EIS measurement option
- Frequency range: 10 μ Hz to 1MHz or better
- Impedance accuracy of 1%
- Input Impedance: 1T Ω or better
- Bandwidth of electrometer: 1 MHz or better
- Input bias current: less than 10pA or better
- Acquisition speed: 200,000 samples/second or better
- Min acquisition time should be around 200-400 μ s
- Possibility to upgrade to high current up to 200A using external booster in future
- Interface: Ethernet LAN /USB

Auxiliary inputs/outputs: 2 Analog Inputs and 1 Analog Output, 2 Digital Inputs and 1 Digital Output to control external accessories like RRDE, Temperature Probe, Temperature and Humidity Chambers, etc.

Calibration of Channels: Calibration of potentiostat channel should be available on-site and calibration reports must be printed as on when required.



Safety limits in software on the current and voltage Max and Min values to avoid hazards.

Should have a possibility to resume an experiment after a power cut and to merge the files before and after the power cut.

Possibility to Record/Measure and control E_{WE} (potential difference between Working and reference) and E_{CE} (potential difference between Counter and Reference) simultaneously in one experiment and in real time

Rotating Ring Disk Electrode Apparatus/System for Reaction Kinetics Studies (1 No. each)

including motor, shaft and Electrodes with Accessories:

- *Rotational range: 100 to 8000 rpm*
- *Accuracy: ± 1 rpm or better*
- *Minimum control step increment: 10 rpm or better*
- *Possibility to control start/stop and increase/decrease speed of RRDE motor using Software*
- *Compatible Cell and stand should be supplied with holes for Electrodes and Gas pugging*
- *One Reference Electrode Ag/AgCl– length: 80 mm , OD: 6 mm*
- *One Platinum coil counter electrode*
- *One 3 mm Glassy carbon disk (RDE) electrode with Peek body*
- *1 mm Pt Ring and 3 mm GC disk (RRDE) electrode Peek body*

Data Acquisition Control and Software:

1. *Multigraph window or mutiwindow capable of displaying up to 5 graphs at a time*
2. *Customize variables graph plot for each axis*
3. *Customized data acquisition speed*
4. *Fundamental Electrochemistry – OCV, CV, LSV, Amperometry, Galvanostatic Charge/Discharge, Batteries, Fuel cell/photovoltaic testing Techniques*
5. *GEIS, PEIS -Electrochemical Impedance Spectroscopy Technique*
6. *Corrosion software including LPR, Tafel etc.*
7. *Pulse software including DPV, NPV, RNPV, SWV etc*
8. *Equivalent EIS fitting circuit software from the same company*
9. *Analysis tools for Corrosion Rp and Tafel Fit, battery CED fit*

Computer Station:

A suitable branded All-in-one desktop Computer for system control & data acquisition should be offered with the system. It should have following minimum specs: CPU Intel Core i7, RAM 8 GB RAM, HDD 1 TB, GPU DirectX 9.0c compliant display adapter with 1GB RAM, DVD writer: one; Operating system: Windows 10 + MS office home & student 2016; WLAN; Wi-Fi and Bluetooth combo; Wireless mouse and keyboard



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Additional Necessary Requirement:

- Installation and Commissioning: An estimated time schedule for installation, commissioning and training must be provided with free of cost.
- Catalogues related to quoted machine should be enclosed in the offer. Dimensions of equipment, weight and space requirements should be submitted in technical offer.
- Pre-installation requirements should be furnished. Hard copy of all the operational manuals related to the system have to be provided while supplying the system.
- The compliance statement should include sufficient details in support of the claim against each of the desired specifications. Just mentioning 'complied' against the desired specification will not lead to qualification.
- Upgrades / Option items should also be quoted with description
- **Warranty:** 2 yrs or more
- Company must have a direct service support in India along with ready availability of spare parts.