

UNIVERSITY OF NORTH BENGAL
Office of the Registrar



সমানোমন্ত্র: সমিতি: সমানী

Notice inviting e-Tender

Following e-Tenders are invited from reputed Vendors, for details please visit
<https://wbtenders.gov.in>

SL.NO.	NIT NO.	TENDER ID
1.	33/R-2024	2024_DHE_722655_1
2.	34/R-2024	2024_DHE_722679_1
3.	35/R-2024	2024_DHE_722694_1
4.	37/R-2024	2024_DHE_722732_1

Registrar (Offg.)

University of North Bengal



P.O. Raja Rammohunpur
Dist Darjeeling
Pin 734013

Notice Inviting e-Tender- 33 /R-2024

e-Tenders are invited from reputed Vendors for supply and installation of the equipments in the UGC HRDC ,University of North Bengal, Rajarammohunpur Campus. For details please visit <https://wbtenders.gov.in>

Sl. No.	Item	Earnest Money	Completion Time
1.	As Per Annexure-I	20,000/-	15 days

TERMS AND CONDITIONS :

- 1) The base price and GST shall be shown separately
- 2) Taxes will be deducted at source as per prevailing rules of Central and State Government.
- 3) The terms and conditions of payment shall be declared clearly.
- 4) Copy of current year Trade License, PAN card, GST registration certificate shall be accompanied with the technical bid documents. [Non Statutory Documents]
- 5) The vendor shall submit authorization certificate from OEM along with the technical bid.(Non Statutory documents).
- 6) The vendor shall provide Company details as per Annexure-II.
- 7) The vendor shall have credential of supply of similar equipments in any University / institution / Govt. Organization. Copy of credential certificate shall be submitted along with technical bid (Non Statutory documents).
- 8) The vendor shall clearly state the pre-installation requirements and take all responsibilities to arrange the same.
- 9) The equipment shall carry minimum 3 (Three) year on site warranty from the date of installation.

- 10) The service engineer shall attend the call within 24 hrs for trouble shooting to be done on no wait basis.
- 11) The successful tenderer shall complete the installation of the equipment within 7 (seven) days from the date of issuance of the supply order.
- 12) A sum of Rs.20,000/- shall be deposited to the under noted account of the University through RTGS as earnest money and the copy of receipt challan of RTGS with UTR number shall be accompanied with the technical bid document (Statutory Documents) failing which the tender paper will be treated as cancelled. The earnest money of the unsuccessful quotationer(s) will be refunded without interest after one month of the opening of tender paper and the same of the successful candidate will be refunded without interest after three months of the satisfactory installation of the equipment subject to redressal of complaint, if any.

Name of the A/c: N.B.U (S/B).
Account Number: 10195736768
IFSC Code: SBIN0002096

- 13) The University authority reserves the right to accept or reject any/all quotations.
- 14) The quotation should be valid for at least 90 (ninety) days.
- 15) The brochure /catalogue of the equipment shall accompany the technical bid documents (Non Statutory documents).
- 16) Selection of the agency will be made on the basis of both technical and financial bids. Technical bids and financial bids shall be submitted by online only. Offline submission of tender paper will not be accepted.
- 17) 92% of the total order value shall be released after the successful installation / commissioning of the equipment against the submission of the test report duly certified by the concerned authority. The remaining 8% of the bill value shall be deducted and kept aside as security deposit which will be paid after 3(three) months from the date of satisfactory installation, subject redress of complaints, if any
- 18) The last date of submission of tender form is upto **05.08.2024 UPTO 11.00 A.M.** and to be opened on **07.08.2024. AT 11.00 A.M..**
- 19) The tenderers may remain present at the opening of tender.
- 20) All cases of disputes not covered under the terms & conditions of Tender will be referred to the Vice-Chancellor for a decision which shall be final and binding on both the parties.

21) For any clarification regarding tender please contact with Dr. Sanjib Bhattacharya ,UGC HRDC, (Mobile no. 9433144789) email Id- ddirhrdc@nbu.ac.in University of North Bengal.

22) Date & Time Schedule

SINO	Particulars	Date & Time
1	Publishing of Tender	26.07.2024 FROM 6.00 P.M
2	Documents download/sell start date (Online)	26.07.2024 FROM 6.00 P.M.
3	Bid submission StartDate	26.07.2024 FROM 6.00 P.M.
4	Bid Submission EndDate	05.08.2024 UPTO 11.00 A.M.
5	Technical BidOpening	07.08.2024 AT 11.00 A.M.
6	Offline Submission	NO OFFLINE SUBMISSION ACCEPTED
7	Financial BidOpening	To benotified

Sd/-
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BIDDERS DETAILS**(To be provided on company letter head)**

NIT NO.:

TENDER ID:

1	NAME OF THE BIDDER	
2.	ADDRESS	
3.	CONTACT NUMBER	
4.	CONTACT PERSON	
4.	EMAIL ID	
5.	BANK DETAILS A/c Name A/c Number Name of the Bank Name of the Branch IFSC	

Authorized Signatory(with seal & Stamps)

Annexure-I

	Specification of Electrochemical Workstation with sample preparation Accessories
1	<p>i) High-performance Research-Grade Electrochemical Workstation for Application of Li-ion battery, solar cell, fuel cell, supercapacitors, corrosion study, electrochemical analysis & Biosensing</p> <p>Potentiostat/Galvanostat/EIS (integrated)</p> <ul style="list-style-type: none"> • Cell Connection/Electrode Configuration: 2,3,4 Electrode measurements • Applied Potential: ± 10 V or more • Compliance voltage: ± 20 V or more • Mini Current Range: ± 2 nA • Current sensitivity: pA or lower • Max Current: ± 2 A or higher • EIS Frequency Range: 10 μHz - 1 MHz or higher • Applied Potential Resolution: 15 μ V or less • Scan rate: 0.001 mV - 10,000 V/s • Reference electrode input impedance: 10^{12} or higher • USB/RS232 Communication • Windows Operating Software <p>Electrochemical Techniques & Application</p> <p>Stable polarization</p> <ul style="list-style-type: none"> • Open Circuit Potential (OCP) • Potentiostatic (I-T curve) • Galvanostatic • Potentiodynamic (Tafel) • Galvanodynamic (DGP) <p>Transient Polarization</p> <ul style="list-style-type: none"> • Multi Potential Steps • Multi Current Steps • Potential Stair-Step (VSTEP) • Galvanic Stair-Step <p>Chrono Methods</p> <ul style="list-style-type: none"> • Chronopotentiometry (CP) • Chronoamperometry • Chronocoulometry <p>Cyclic Voltammetry</p> <ul style="list-style-type: none"> • Linear Sweep Voltammetry (LSV) • Cyclic Voltammetry (CV) • Staircase Voltammetry (SCV) • Square Wave Voltammetry (SWV) • Differential Pulse Voltammetry (DPV) • Normal Pulse Voltammetry (NPV) • Differential Normal Pulse Voltammetry (DNPV) • AC Voltammetry (ACV) • 2nd Harmonic A.C. Voltammetry <p>Stripping Voltammetry</p> <ul style="list-style-type: none"> • Potentiostatic Stripping • Linear stripping • Staircase Stripping • Square Wave Stripping <p>Corrosion Test</p> <ul style="list-style-type: none"> • Cyclic polarization curve (CPP) • Linear polarization curve (LPR) • Electrochemical Potentiokinetic Reactivation (EPR)

- Electrochemical Noise (EN)
- Zero Resistance Ammeter (ZRA)
- Hydrogen Diffusion (HDT)

Battery Test & Super capacitor Test

- Battery Charge and Discharge
- Galvanostatic Charge and Discharge
- Potentiostatic Charge and Discharge
- Potentiostatic Intermittent Titration Technique
- Galvanostatic Intermittent Titration Technique

System Application

- Corrosion Test
- Batteries
- solar cell
- fuel cell
- supercapacitors
- new materials
- photoelectronic materials
- Electrochemical analysis
- sensor
- Reaction mechanism of electrosynthesis
- electrodeposition
- Anodic oxidation

Extensions (I/O)

- Data Logger
- Electrochemical Stripping/Deposition Bulk Electrolysis with coulometry (BE),
- RS measurement RDE setup

Electrochemical Impedance Spectroscopy (EIS)

- EIS vs Frequency (IMP)
- EIS vs Time (IMPT)
- EIS vs Potential (Mott-Schottky)

System should be in-built or fully future upgradable with the following

- Bi Potentiostat
- Power Booster up to 20A Current
- Spectro-Electrochemistry Setup

Data Acquisition System

Compatible PC for collecting and analyzing data

Accessories

Three Electrode Systems should be provided along with the system which includes Teflon Cell Stand with Two Glass Cell and Three Electrodes (Glassy Carbon Working Electrodes, Ag Ag/Cl Reference Electrodes, and Platinum Wire Counter Electrode)

Specification of Muffle Furnace for Research Laboratory

Electrically heated Muffle Furnace (Table top model) and digital microprocessor-based, Fully Automatic

Inner Chamber Size: 15 x 15 x 30 cm³

Maximum working temperature: 1550°C

Continuous working temperature: 1500°C

Heating Elements: Molybdenum Disilicide (MoSi₂)

Total Power: 6.0 KW

Thyristor power drive: Input - B Type Thermocouple.

Output: 0-5 V

Control System: PID, Microprocessor based with B-type Sensor.

Temperature PID Controller: Honeywell Make.

Outer Body: CRC Steel with Powder coated.

Supply: 220-230V, AC, Single Phase

Accessories with the Furnace:

B-Type Thermocouple, PtPt-Rh-10% -----1 no

Molybdenum Disilicide (MoSi₂) -----12 no

Tongue-----10 no.

Hand Gloves: 10 no

Sight Glass-----05 no

Fire Extinguisher-----02 no

Sd/-
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