



## MAHATMA GANDHI UNIVERSITY

MGU/SCS/ Etender/2022-23/01

22/11/2022

### NOTICE INVITING TENDER

The Registrar, Mahatma Gandhi University, Kottayam for and on behalf of Dr. Ditty Dixon, Associate Professor, School of Chemical Sciences, Mahatma Gandhi University invites online bid (technical and financial bid) for supply and installation of the Scientific equipment Multichannel Upgradable Battery test system/Electro Chemical Workstation from reputed firms.

1	Name of the scientific equipment	Multichannel Upgradable Battery test system/Electro Chemical Workstation
2	Earnest money deposit (EMD)	Rs. 7,000/-
3	Tender submission fee	Rs. 1,400/-
4	Period of supply and installation	Within 90 days from the LC Opening Date
5	Mode of submission of Bid	Online
6	Tender Documents	Can be downloaded from the website <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>
7	Last date and Time of submission of tender by online	05/12/2022, 4.00 pm
8	Last date and Time of submission of relevant documents by speed post	07/12/2022, 12.00 pm
9	Date and time of opening of technical bid	07/12/2022, 12.00 pm

General tender documents and tender schedule can be downloaded in A<sub>4</sub> plain size paper free of cost from the website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in). Duly filled up and signed tender schedule along with relevant documents should also be sent to “**Dr Ditty Dixon, Associate Professor, School Of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala Pin-686560**”, by speed post so as to reach before the date and time specified. The cover containing the documents should super scribe the name of the scientific equipment, tender number, and last date of submission of tender.

**Documents to be submitted along with bid through online/speed post**

<b>Sl.No</b>	<b>Through online</b>	<b>Through speed post</b>
1	Scanned copy of valid registration certificate/dealership certificate	Copy of valid registration certificate attested by a gazette officer/ dealership certificate
2	Scanned copy of duly filled e-payment form	Duly filled e-payment requisition.
3	Scanned copy of other certificates required, if any, for tender acceptance	Copy of other certificates required, if any, for tender acceptance.
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs.200/-	Preliminary Agreement in original
5	BOQ	Not Required

**Specification for Electrochemical Workstation**

The The system should capable of handling various Electrochemical research, like Battery/Super capacitor sensor, Corrosion /Fuel cell & Photovoltaic

No. of. Channels required: 01 independent channel and facility to add 7more channels

Compliance Voltage:  $\pm 20V$  or more

Applied voltage:  $\pm 15 V$  or more

Voltage accuracy: 0.1% or better

Voltage Resolution: 0.1% or better

Current ranges:  $\pm 10nA$  to  $\pm 1A$ , with 6 or more current ranges

Current accuracy: 0.1 % or better

Current Resolution: 0.1 % or better

Software requirements:

- Battery/Super capacitor: charge/discharge Constant potential, GITT, PITT, Constant current, constant power, I-V Characterization
- Voltammetry Software- CV, LSV, Staircase Voltammetry
- Pulse software: DPV, SWV, Stripping voltammetry, Chrono amperometry, Chronopotentiometry
- Corrosion: Potentiostatic/Galvanostatic- Galvanodynamic, Tafel
- Complete analysis software for CV
- Free Life time up gradation of the software.

Accessories Required.

Suitable Laptop with i-5 Processor, 8GB RAM, 256GB SSD windows 10, -1No.

Warranty

03 years Manufacturer's warranty should be provided.

### **Special Conditions**

1. Instrument should be supplied with necessary manuals or Quotation should include the detailed description of each module with circuit diagram.
2. Complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (hard and soft copies).
3. If sufficient number of bids are not available at the time of bid opening, the tender would be extended for 10 more days.
4. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The bids shall be opened at the date and time specified. Further details can be had from the office on the undersigned on all working days during working hours. The bidders are advised to submit their bid well in advance to avoid any kind of network issues. If relevant documents through speed post are not submitted with in time, the tenders will not be considered. The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

*Sd/-*

**Dr Ditty Dixon**  
**Associate Professor**  
**School Of Chemical Sciences**