



MAHATMA GANDHI UNIVERSITY

MGU/RUSA/ Etender/SCS/2023/02

29/07/2023

NOTICE INVITING TENDER

The PI RUSA Project, Mahatma Gandhi University, Kottayam, invites online bid (technical and financial bid) for supply and installation of the Scientific equipment “**Electrodes and Accesories for Electrochemical Studies**” from reputed firms.

1	Name of the scientific equipment	Electrodes and Accesories for Electrochemical Studies
2	Earnest money deposit (EMD)	Rs. 6000/-
3	Tender submission fee	Rs. 1,200/-
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 www.etenders.kerala.gov.in
7	Last date and Time of submission of tender by online	23/08/2023, 4.00 pm
8	Last date and Time of submission of relevant documents by speed post	25/08/2023, 12.00 pm
9	Date and time of opening of technical bid	25/08/2023, 12.00 pm

General tender documents and tender schedule can be downloaded in A₄ plain size paper free of cost from the website www.etenders.kerala.gov.in. Duly filled up and signed tender schedule along with relevant documents should also be sent to “**The Director 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

Sl.No	Through online	Through speed post
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 Instrument

1) Cell for Rotating Electrodes

Cell volume should be 150 mL, with water jacket – also includes five PTFE stoppers and accessories for sparging/purging cell.

2) Glassy Carbon Disk, Platinum Ring RRDE Tip

Specifications:

- Fixed-Disk RRDE tip
- Disk OD: 5.5 mm
- Ring ID: 6.50 mm
- Ring OD: 8.50 mm
- 15.0 mm OD PEEK shroud
- PEEK spacer between disk & ring

3) Standard Platinum Counter Electrode Kit

Should Include isolation tube and adapter to fit 14/20 port

- Pt Wire OD: 0.5 mm
- Pt Wire Approximate Surface Area: 4.7 cm²
- Shroud Dimensions: 6.9 mm OD x 150 mm Long

Following parts should be included in this Kit:

- Fritted Glass Tube (12 mm OD, 14/20 port at top, medium frit at bottom)
- PTFE Mount with 1/4" ID red cap (slides onto support rod, fits into a 14/20 port)
- PTFE Mount for Fritted Tube (slides around fritted tube, fits into a 14/20 port)

4) Single Junction Silver Chloride (Ag/AgCl) Reference Electrode

Should include 14/20 PTFE adapter, storage bottle, bottle of filling solution.

- Standard Potential: 0.199 V vs. NHE

- Filling Solution: 4 M KCl with AgCl

5) Single Junction Mercury Oxide (Hg/HgO) Reference Electrode

Should include 14/20 PTFE adapter, storage bottle, and contains no glass - ideal for use with alkaline electrochemical systems.

- Standard Potential: 0.098 V vs. NHE
- Filling Solution: 4.24 M KOH

6) Single Junction Calomel (Hg/Hg₂Cl₂) Reference Electrode

Should include 14/20 PTFE adapter, storage bottle, bottle of filling solution.

- Standard Potential: 0.241 V vs. NHE
- Filling Solution: 4M KCl

7) Single Junction Mercury Sulphate (Hg/Hg₂SO₄) Reference Electrode

Should include 14/20 PTFE adapter, storage bottle, bottle of filling solution.

- Standard Potential: 0.650 V vs. NHE
- Filling Solution: Saturated K₂SO₄

8) Gas-purged Bearing Assembly

Should be 15.0 mm ID, fits the shaft within the 24/25 centre joint.

9) Electrode Polishing Kit

This kit should include three packs of polishing disks (micro cloth, nylon, and 600 grit sandpaper) and three bottles of polishing solutions (5.0 µm, 0.3 µm, and 0.05 µm)

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).
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.
5. In case if sufficient number of tender with complete documents are not received before the closing date, the closing date of the tender will be extended to another 10 days and in this single tenders will be considered.

Sd/-

PI, Dr. Ditty Dixon