



**SCHOOL OF CHEMICAL SCIENCES
MAHATMA GANDHI UNIVERSITY
Priyadarshini Hills, Kottayam- 686560
Kerala, India**

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Tender No.: SCS/EEQ/Pro/SKB/E02/2024

Dated: 27/02/2024

NOTICE INVITING E-TENDER

The Registrar, Mahatma Gandhi University, Kottayam for and on behalf of **Dr. Subila K.B., PI, EEQ/2023/000374, School of Chemical Sciences, Mahatma Gandhi University**, invites online bid (technical and financial bid) for supply and installation of the Scientific equipment **“Glove Box and Spin Coater”** from reputed firms.

1	Name of the scientific equipment	<i>Glove Box and Spin Coater</i>
2	Earnest money deposit (EMD)	Rs. 11418–(1%of the estimated value)
3	Tender submission fee	Rs.2300 (0.2% of the cost of the equipment rounded to the nearest multiple of 100, subject to a maximum of 25,000/- + GST as applicable)
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	12/03/2024, 4.00 pm
8	Last date and Time of submission of relevant documents by speed post	13/03/2024, 12.00 pm
9	Date and time of opening of technical bid	13/03/2024, 4.00 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

Dr. Subila K.B., PI, EEQ/2023/000374, School of Chemical Sciences, Mahatma Gandhi University 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. The Vacuum based Spin Coater should have a microprocessor based Controller system, should be Multiple programmable; RPM : 100 to 10000 Variable; One chuck to hold Substrate with a Vacuum pump

Glove box with the following features:

1. Dimensions: (L x D x H) 1200 x 900 x750mm
2. Antechamber: (L x D) 500 x 300 mm
3. Chambers built from Stainless steel 1.4301 (SS 304) 4mm thick

4. Small antechamber : (L x D) : 200 x 100mm
5. Transparent acrylic window of thickness 12mm with anti-scratch coating
6. Digital Vacuum sensor for ante chamber
7. Exhaust/Inlet KF20 Connector
8. POM (Derlin) material Glove Port
9. 2 glove ports with 200mm diameter O-ring sealed
10. One pair of Butyl Gloves,
11. Automatic pressure control (± 15 mbar) with waterproof foot pedal switch for temporary pressure adjustment
12. Leak rate $< 10^{-5}$ mbar L/s (for nitrogen)
13. Inert gas Purification system: H₂O/O₂ Double purifier column (DP)
14. Moisture level < 1 ppm; Oxygen level < 1 ppm
15. 9 kg Molecular Sieves & 9 kg copper catalyst
16. GE make Moisture sensors
17. Moisture accuracy, + 1PPM
18. GE Oxygen sensors, < 1 PPM
19. HEPA (class H13 or better) gas inlet and outlet Filters
20. 7 inch Touch screen Digital Display
21. Microprocessor based controlling
22. Manual and automatic controlling for ante
23. Solenoid Valve from SMS
24. Blower for Internal Purification system
25. Electric panel in each chamber
26. Front opening for transfer large items
27. Vacuum pump
28. 3 year Warranty for Chamber Leakage and 1 year for sensors

ANNEXURE-II

Terms and Conditions

1. Last date of submission of tender along with requisite fee, EMD and all documents is 05.03.2024, 11 am
2. The technical bid will be opened on 22.02 .2024 at 5 pm.
3. Tenders must accompany a copy of the “Annexure II and Annexure III” section of this document, signed and stamped on each page indicating that they agree to these.
4. The non-refundable application fee of 0.2% of cost with the challan of 5% of it as GST must be accompanied with tender for each instrument. The application fee must be as D.D. drawn in favor of Professor and Head, School of Chemical Sciences , Mahatma Gandhi University, Kottayam
5. The DD/Cheque for EMD or any other must be drawn in of favour of Professor and

Head , School of Chemical Sciences , Mahatma Gandhi University, Kottayam payable at SBI Mahatma Gandhi University Campus Branch.

6. Instrument should have a warrantee of at least one year and should have at least one Service engineer and one application scientist based in India with onsite training facility on the same quoted equipment. Training should include operation, handling and maintenance of system.
7. A good record in supply and service to other research institutes will be considered as a positive point for a particular company. User list of similar equipment supplied recently in India should be provided.
8. Laboratory floor space, electrical power requirements, earthing, room temperature/humidity requirements etc. should be mentioned appropriately.
9. All necessary accessories should be supplied with the instrument, as per standard package offered, including complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (hard and soft copies).
10. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The charges for extended warranty and/or Annual Maintenance Contract after the expiry of offered warranty period should also be specified in the financial bid.
11. The price of the equipment should be quoted in Indian rupee. The total price of the equipment quoted should be inclusive of GST & other taxes if any; material cost; transportation cost; loading and unloading cost; installation cost; labour charges and all other expenses in whatsoever means.
12. Payment process will be initiated only after supply of items as per tender specifications and satisfactory installation of the items.
13. It will be the responsibility of the supplier to deliver the ordered materials at School of Chemical Sciences, Mahatma Gandhi University, Kottayam. All required materials for satisfactory installation are to be provided by the supplier at their own cost.