



MAHATMA GANDHI UNIVERSITY

MGU/RUSA/ Etender/SCS/2023/04

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 “**Environmental Chamber**” from reputed firms.

1	Name of the scientific equipment	<i>Environmental Chamber</i>
2	Earnest money deposit (EMD)	Rs. 5,250/-
3	Tender submission fee	Rs. 1,000/-
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	19/08/2023, 4.00 pm
8	Last date and Time of submission of relevant documents by speed post	22/08/2023, 12.00 pm
9	Date and time of opening of technical bid	22/08/2023, 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

- Temperature range should be -10 °C to 100 °C
- Interior Volume should be minimum of 50 Liter and should be table top model
- Chamber should be working with Cooling with compressor cooling
- Disinfection routine at 100 °C should be possible
- The inner chamber, the pre-heating chamber and the interior side of the doors are all made of stainless steel V2A (German material no. 1.4301, US equivalent AISI 304). The housing is RAL 7035 powder coated. All corners and edges are also completely coated.
- Chamber Should have adjustable fan speed facility
- Should have Controller with time-segment and real-time programming
- The Controller should have facility to set a time program or a week program also program temperature cycles and define also the fan speed for each program section. The controller should offers 52 time program places with up to 100 sections each and the week program mode should offers 8 week program minimum
- Should have microprocessor controller (LCD Display 5.7 inch) and the below details should be view in the controller a) Temperature set point b) Temperature Actual Value c) Fan speed Value d) Date & Time
- Controller should have password protection facility
- Chamber Should have Inner door made of tempered safety glass
- Chamber should have Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- IP type of protection 20 should be acc. to standard EN 60529
- 2 stainless steel racks should be provided
- Access port with silicon plug 50mm on back /Left should be provided

- Load per rack should be minimum of 15kg
- The model should have option to stack with out use of any tool .
- Should have temperature safety with visual and audible temperature alarm
- The chamber should be equipped with an Ethernet interface for computer communication
- Temperature variation at 37 °C should be ± 0.2
- Temperature fluctuation should be $[\pm K] 0.1$
- Heating up time to 37 degree should be with in 8 minute
- Recovery time after 30 seconds door open at 37 °C should be below 3 minute
- Energy consumption at 37 °C should be 72 Wh/h or below
- Sound-pressure level should be below 50 dB(A)
- Electrical connection should be 200-240 V , 50/60 Hz
- Nominal power not be more than 0.7kw
- Instrument weight should not be more than 75 kg
- The Instrument should have CE certification, GS mark of conformity, also the chamber should be EAC and UL certification marking althese information should be available in the instrument label.
- Warranty 1 year

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 etender 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