



MAHATMA GANDHI UNIVERSITY

Registrar

Tender No: AdBVII/ET/20/SPAP/PHY2/2018

Dated: 04/1/2018

NOTICE INVITING TENDER

(Tender No: AdBVII/ET/20/SPAP/PHY2/2018)

The Registrar, Mahatma Gandhi University, Kottayam invites online bid (technical and financial bid) for supply and installation of the scientific equipment **Corona Poling unit** from reputed firms

1	Name of the scientific equipment	CORONA POLING UNIT
2	Earnest money deposit (EMD)	Rs. 15000/-
3	Tender submission fee	Rs. 2300/-
4	Period of supply and installation	Within 60 days from the L/C 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	14.02.2018, 12.00 pm
8	Last date and Time of submission of relevant documents by speed post	16.02.2018, 12.00 pm
9	Date and time of opening of bid opening	16.02.2018; 2.00 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 Pure & Applied Physics
M.G. 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 dealership certificate	Copy of valid 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 THE CORONA POLING UNIT WITH GRID ASSEMBLY

- 1. 100 kV DC Power Supply for Corona Poling (Needle) 1 no.**
 - 1 mA output [max]
 - Based on high frequency push pull inverter along with voltage multiplier circuit
 - Separate analogue indication for Voltage and Current
 - High Voltage Floating output Cable
 - Closed Loop Voltage Regulation
 - Continuous Voltage Control from 10kV – 100kV
 - Digital Indications for Voltage, Current and Temperature.
- 2. Pin Holder Assembly 1 no.**
 - Pin holder assembly for 5 nos. of Tungsten pins
 - Independently adjustable distance from substrate and grid assembly.
 - Delrin based isolation.
- 3. Grid Assembly**
 - SS mesh
 - Isolated by Delrin insulation.
 - Adjustable distance from pin assembly
- 4. Grid Power Supply -1 no.**
 - 50 kV DC Power Supply
 - 2-50 kV variable with 10 turn pot.
 - 2mA (max) current.
 - Digital display of Voltage and current.
 - Short circuit protection / trip
 - Power ON reset.
- 5. Sample Heater Plate with Heater 1 no.**
 - a) Suitable Sample Heater Plate with Isolated Heater Assembly for sample size of 1 inch x 1 inch
 - b) Closed Loop Temperature Control consisting of:
 - (i) Phase Angle Type Thyristor Power Controller for Heater with $\pm 1^{\circ}\text{C}$ control and PID Controller with Fuzzy logic and Digital Display of

Temperature

(ii) Temperature from 25-250°C.

6. Stand and Cover

- Fully Engineered Stand with adjustable height to accommodate Pin Holder Assembly, Sample Heater Plate and Grid Assembly with proper insulation
- Acrylic Cover with door interlock [for Power Supply] for Operator safety

7. Recommended recurring spare

Special Conditions

1. Instrument should have a warrantee of at least **three years** and should have frequent visits from both service engineer and application scientist. Additional 2 years AMC should be quoted as optional.
2. There should be at least one service engineer and one application scientist based in India with onsite training facility on the same quoted instrument. Training should include operation, software applications, analysis, handling and maintenance of system.
2. 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 with the above mentioned specifications.
3. Laboratory floor space, electrical power requirements, earthing, room temperature/ humidity requirements etc. should be mentioned appropriately.
4. 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).
5. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid.

The bids will be opened at the date and time specified. Further details can be had from the Director, School of Pure & Applied Physics 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.

Registrar