



MAHATMA GANDHI UNIVERSITY

MGU/DST-PURSE/2019-20/4/SES

Dated: 06/08/2019

NOTICE INVITING ReTENDER

(Tender No. MGU/DST-PURSE/2019-20/4/SES)

The Registrar, Mahatma Gandhi University, Kottayam for and on behalf of The Coordinator, DST PURSE PII Project, School of Biosciences, Mahatma Gandhi University invites online bid (technical and financial bid) for supply and installation of the scientific equipment **Field Gas (Green House Gas) Monitor and accessories** from reputed firms. The period of the tender is 180 days from the date of tender.

1	Name of the scientific equipment	Field Gas (Green House Gas) Monitor and accessories
2	Earnest money deposit (EMD)	Rs. 53000/-
3	Tender submission fee	Rs. 8000/- + GST
4	Period of supply and installation	Within 90 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	15.08.2019, 4.00 pm
8	Date and time of opening of bid opening	17.08.2019, 11.00 am

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

Documents to be submitted along with bid through online.

Sl. No	Through online
1	Scanned copy of dealership certificate
2	Scanned copy of duly filled e-payment form
3	Scanned copy of other certificates required, if any, for tender acceptance
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs.200/-
5	BOQ

Special Conditions

1. Instrument should have a warranty of at least **three years** and should have frequent visits from both service engineer and application scientist.
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.
3. 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.
4. Laboratory floor space, electrical power requirements, earthing, room temperature/humidity requirements etc. should be mentioned appropriately.
5. 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).
6. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid.
7. The quoted price in the BOQ should be inclusive of all taxes/freight/installation charges.

The bids will be opened at the date and time specified. Further details can be had from the **The Coordinator, DST PURSE PII Project, School of Bio Sciences, M.G. University, Kottayam, Kerala Pin-686560** Phone: 0481-2731035 E-mail: bio.sc.office@gmail.com. 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. The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

REGISTRAR



Field Gas Monitoring System (FGMS)

Specifications

SI No.	Specification	Requirement
1	Principal of Operation	PAS – Photo Accoustic Spectroscopy
2	Repeatability / Precision	$\pm 1\%$ of measured value
3	Minimum Detection limit	CH ₄ : 100 PPB CO ₂ : 1.5 PPM N ₂ O : 30 PPB
4	Dynamic range Operational Range	CH ₄ : upto 1000 PPM or more CO ₂ : upto 15000 PPM PPM N ₂ O : upto 300 PPM or max limits EXTENDABLE UPTO 10 times by special calibration in special cases
5	Outputs	Digital (RS232), Analog, Ethernet, USB 3.0 or higher
6	Data Storage	Internal – Sufficient to hold data of more than 20 days with 15 second measurement cycle
7	Interference	Should automatically compensates for temperature and pressure fluctuations Should compensate for water vapour in the air sample. Should have facility to compensate other gases being measured in the same instrument SHOULD NOT BE INFLUENCED by Acoustic Sensitivity of external sound.
8	Ambient Humidity	<98 % RH non – condensing
9	Power Requirements	85 VA, 100 - 240 V AC $\pm 10\%$, 50 & 60 Hz, Class 1. UPS back up with relevant batteries for minimum two hour operation
10	STANDARDS	
	EMC	EN 61326-1:2013
	SAFETY	EN IEC 61060-1 3 rd edition CAN/CSA C22.2 61060 -1-04 UL 61060 -1 3 rd edition
	Environment	UL 61060 A-1 environment conditions

11	ACCESSORY	
a.	Data logging facility with software to import and export data using the relevant software	
b.	Suitable Laptop for the system	
c.	Should supply with a portable real time Aerosol monitor for monitoring PM1.0, PM2.5, PM10.0, Resp., (i.e. PM4.0) & Total by laser scattering as well as by gravimetric method with latest software and complete kit. Including 37mm cassette	
12	DOCUMENTS	
a.	Documents Required	Calibration Certificate
b.	Warrantee & Maintenance	3 Years
c.	The calibration data back up should be provided.	
d.	Price	Price should include Shipping charge, Transportation and Installation