



**MAHATMA GANDHI UNIVERSITY**

MGU/DST-FIST/2019/ SBS4

Dated: 15-10-2019

**NOTICE INVITING TENDER**

**(Tender No. MGU/DST-FIST/2019/ SBS4)**

**The Registrar, Mahatma Gandhi University, Kottayam** for and on behalf of **The Coordinator, DST FIST Project, School of Biosciences Mahatma Gandhi University** invites online bid (technical and financial bid) for Supply and Installation of the scientific equipment **GCMS (GAS CHROMATOGRAPH WITH MASS SPECTROMETER)** from reputed firms

1	Name of the scientific equipment	<b>GAS CHROMATOGRAPH WITH MASS SPECTROMETER (GCMS)</b>
2	Earnest money deposit (EMD)	Rs. 38000/-
3	Tender submission fee	Rs. 5700/- + 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 <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>
7	Last date and Time of submission of tender by online	<b>30/10/2019, 5.00 PM</b>
8	Date and time of opening of bid opening	<b>1/11/2019, 11.00 am</b>

General tender documents and tender schedule can be downloaded in A<sub>4</sub> plain size paper free of cost from the website [www.etenders.kerala.gov.in](http://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

## GCMS Specifications

System should be capable of supporting analysis of plant extract and metabolites from microbes, should have inlet equipped with Automatic pneumatic controls for all the gases and should have Chromatography Data system which is based on Microsoft Windows operating system for instrument control, data acquisition, chromatographic deconvolution and library (qualitative and quantitative data).

## GAS CHROMATOGRAPH WITH MASS SPECTROMETER

1. Minimum detection levels in LOD, LOQ.
2. Maximum consumables such as vials and septum, glass inserts, split and split less liners, disposable liners, septum etc.
3. Auto-sampler with maximum vial capacity
4. Ion source, detector, turbo pump, and rotary pump with maximum time
5. Gas cylinders (additional gas cylinders if possible)
6. Necessary kits for pesticides like QUETRS maximum numbers.
7. With maximum detectable mass range
8. Injectors, syringes and columns specific for identification of plant and microbial secondary metabolites along with pesticides are preferable
9. columns specific for volatile and fatty acids
10. Metabolite library updated version with maximum number of compounds, NIST, WILEYS.
11. Technical support in identifying compounds which are not in library
12. Should provide adequate technical training for the concerned persons from technical experts.
13. minimum years of AMC should be 5 years
14. UPS with a backup of minimum 5 hrs because of voltage fluctuations.
15. **Warranty of three years and extended 2 yr compulsory AMC**

**Desirable:** 1-ton AC for the GCMS room

- Additional extended 2year warranty also may be quoted, as optional.

## Special Conditions

1. Instrument should have **a warranty of three years and extended 2 yr compulsory AMC** 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. **Vendors may provide details of exact technical specifications of their specific brands including system configurations up to installation/mounting of the required injectors and detectors. The technical committee will evaluate the merit of the quoted technical specifications while taking a final decision of purchase. Once the tender is accepted, the vendor need to supply the items as per the specifications quoted and install the same to demonstrate proper working, otherwise liable to legal actions.**
8. Vendors may also provide the maximum number of consumables and the period of AMC providers and UPS will add to competition.
9. The bids will be opened at the date and time specified. Further details can be had from **The Coordinator, DST FIST Project, School of Bio Sciences M.G. University, Kottayam, Kerala Pin-686560**, on all working days during working hours. 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.
10. The basic price to be entered in BOQ should be inclusive of all taxes, freight, loading & unloading and installation charges.

The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

**Registrar**

We are looking for a GC with MS, FID and ECD detector with headspace:

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**The instrument should be competitive in the below listed**

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3. Auto-sampler with maximum vial capacity
4. Ion source, detector, turbo pump, and rotary pump with maximum time
5. Gas cylinders (additional gas cylinders if possible)
6. Necessary kits for pesticides like QUETRS maximum numbers.
7. With maximum detectable mass range
8. Injectors, syringes and columns specific for identification of plant and microbial secondary metabolites along with pesticides are preferable
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*Received  
Kuttan*

Co-ordinator-DST FIST  
School of Biosciences  
M.G. University  
Kottayam