



## MAHATMA GANDHI UNIVERSITY

MGU/DST-PURSE/2019-20/ETEN/3/SCS

Dated: 06/08/2019

### **NOTICE INVITING Re-TENDER**

(Tender No. MGU/DST-PURSE/2019-20/ETEN/3/SCS)

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 **Benchtop NMR Spectrometer** from reputed firms. The period of the tender is 180 days from the date of tender.

1	Name of the scientific equipment	<b>Benchtop NMR Spectrometer (60 MHz or Higher)</b>
2	Earnest money deposit (EMD)	Rs. 68000 /-
3	Tender submission fee	Rs. 10200 /- + 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>15.08.2019</b> , 4.00 pm
8	Date and time of opening of technical bid	<b>17.08.2019</b> , 11.00 am

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 valid registration certificate/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. Onsite training has to be arranged by the vendor. Training should include operation, software applications, analysis, handling and maintenance of system.
2. List of your customers using the instrument with the above mentioned specifications should be given.
3. Laboratory floor space, electrical power requirements, earthing, room temperature/ humidity requirements etc. should be mentioned appropriately.
4. Complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (soft copies).
5. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid.
6. The quoted price in the BOQ should be inclusive of all taxes/freight/installation charges.

The bids shall be opened at the date and time specified. Further details can be had from the office **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**



## **Supply, Installation & Training of of the Scientific Equipment - Benchtop NMR Spectrometer (60 MHz or Higher)**

### **SPECIFICATIONS**

- System should have Operating frequency of 60 MHz or higher and should operate without cryogens.
- Should be able to record the spectra of  $^1\text{H}$ ,  $^{13}\text{C}$  and  $^{19}\text{F}$  nuclei with deuterium and non-deuterium locking options
- Should use standard 5mm NMR tube and the field strength should be at least 1.4T
- System resolution should be  $< 1.0$  Hz or better at 50% height
- Sensitivity should be at least 100:1 (EtBz 1% signal scan)
- Should be able to use in ambient operating temperature (room temp.)
- Should work at the standard Indian 220V, 50Hz power supply conditions
- Should be capable to use for reaction monitoring, compound identification, reagent purity assessment and general NMR spectroscopy
- Should perform customized NMR experiments like 1D, homo- and hetero-nuclear 2D experiments, including COSY, Decoupling, DEPT trio, HSQC/HETCOR, HMBC, Solvent suppression etc.
- Required PC should be supplied along with adequate software of Windows or Linux compatible. A laser printer should also be provided.
- Data should be easily accessed, exported and printed through multiple connectivity options. Spectra should be saved in standard file formats and should be compatible with many third-party software for post data analysis
- Provision should be there to remove broken nmr tubes.
- A suitable UPS with sufficient batteries capable of working for at least 3 hours in the event of power failure should be provided along with the instrument. ( accessories)
- NMR solvents such as  $\text{D}_2\text{O}$ , d-MeOH, d-DMSO, acetone- $\text{d}_6$  should be provided along with the instrument (consumables)
- The nmr solvent, deuterated chloroform (at least 100 ml x 10 bottles), should be supplied in sufficient quantity (consumables)
- The standard and reference compounds (TMS, EtOAc etc.) should be provided along with the instrument .(consumables)
- The standard 5mm nmr tubes (Nos.100) should be supplied along with the instrument (consumables)
- The nmr tube cleaning apparatus should also be provided along with the instrument.
- Operational manual should be supplied along with the instrument.
- The quote should include 3 years of warranty and 2 years of AMC after the warranty period
- The quote should include the cost for supply of the instrument at the destination