



MAHATMA GANDHI UNIVERSITY

MGU/DST-PURSE/2019-20/5/SPAP

Dated: 06/08/2019

NOTICE INVITING Re-TENDER

(Tender No. MGU/DST-PURSE/2019-20/5/SPAP)

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 **Metallurgical optical microscope** from reputed firms. The period of the tender is 180 days from the date of tender.

1	Name of the scientific equipment	Metallurgical optical microscope
2	Earnest money deposit (EMD)	Rs. 12000 /-
3	Tender submission fee	Rs. 1800/- + 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, 11.00am

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 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 (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 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



METALLURGICAL MICROSCOPE

SPECIFICATIONS

<i>Computerized Metallurgical optical microscope</i> with specification similar or better than as given below Specifications	Essential specifications
Type	UPRIGHT- Transmitted & Reflection mode
Stand	Robust, scratch resistance and must have movement about X, Y and Z-axis,
Nose piece	Minimum 5 positions which can be controlled automatically.
Reflected light position	Minimum four position reflector turret to hold mirror cubes for Bright Field & Dark Field observation or better
Stage	Mechanical stage for movement of stage.
Drive	manual focusing system for fine focusing
Imaging contrast technique	Fully apochromatic, Bright field, High Definition dark field, Polarization, Phase contrast in transmission mode
Eyepiece	Wide field observation of at least 10X or better with minim FOV of 25 mm for wide-field observation. The eyepieces should be suitable for graticule insertion.
Camera	High resolution camera of 5 MP or better, Microscopic color & monochrome digital camera with 5 MP or more chip resolution, live image display with CMOS sensor or better.
Optics	Fully Apochromatic optics and microscope optics should be corrected two stages for spherical. Three stages for chromatic aberration.
Objective	5x, 10x, 20x, 50x, 100x
Illuminations system	Halogen or LED illumination system or better illumination system
Computers its related accessories	Branded Computer with 22" monitor for controlling the microscope
Image software analyzer	<ul style="list-style-type: none"> Capable for measurement and analysis. Software should be capable to export the data in the user format.
Grain analysis	Automatic Grain Size analysis as per ASTM and more features
Binocular Tube	Binocular tube 45° with field of view 23mm on the microscope stand with swiveling eyepiece tubes with I.P.D. adjustable range 60-75 mm.
Warranty	3 years