

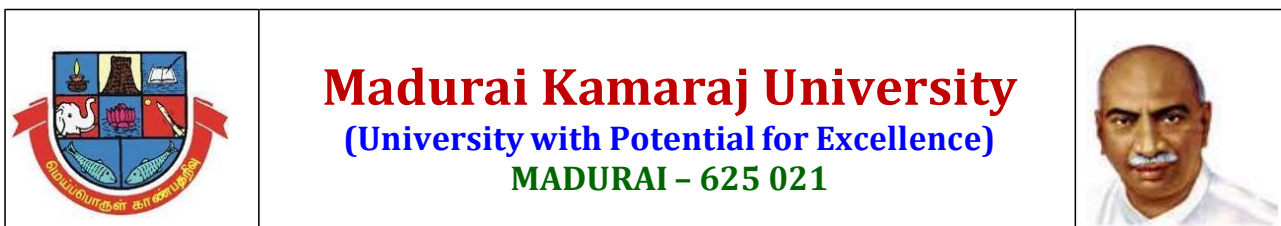


TENDER NOTIFICATION

SCHOOL OF BIOTECHNOLOGY

	MADURAI KAMARAJ UNIVERSITY (University with Potential for Excellence) Madurai - 625 021, Tamil Nadu, INDIA.		
Ref. No. MKU/SBT/DBT-M.Sc Biotech/2022		Date: 09.03.2022	
<p>For and on behalf of School of Biotechnology, Madurai Kamaraj University, the sealed tenders (Two-cover system) are invited by The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai-625 021, under the DBT sponsored M.Sc Biotechnology Program, for the supply and installation of the following items, from the Reputed suppliers/vendors.</p>			
No.	ITEM	EMD Amount	Period of validity
1	UV-Vis Spectrophotometer	1% of the budget cost	90 Days
2	Orbital Shaker Temperature controlled	1% of the budget cost	90 Days
3	Laminar Air Flow	1% of the budget cost	90 Days
<p>Sealed Tenders are invited until 5.30 p.m. on 19.03.2022, which will be opened by the Purchase Committee constituted for that purpose by Madurai Kamaraj University within a week after receipt of the quotes. Technical bid along with EMD and Price bid must be submitted separately in a sealed covers and should not be clubbed together. Quotes without EMD will not be considered and summarily rejected. EMD should be furnished in the form of DD drawn favour of “The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai”.</p>			
<p>The specifications, terms & conditions are available in the University website www.mkuniversity.ac.in from: 09.03.2022. The tender documents are available for downloading at the website. Last date for the submission of quotes is 19.03.2022 (before 5.30 PM).</p> <p style="text-align: right;">THE CHAIRPERSON SCHOOL OF BIOTECHNOLOGY</p>			



Tender Conditions

Sealed Tenders are invited for the supply of listed equipment (No: 1-3) for School of Biotechnology, Madurai Kamaraj University, Madurai - 625021 up to 5.30 pm on 19.03.2022.

The Tender applications are expected from the reputed Manufacturers / Authorised dealers. Tenders in sealed cover as superscribed “**Tender quotes for the supply of_____ (Specify the Equipment Name) to School of Biotechnology, Madurai Kamaraj University.** The tender documents should be addressed to “**The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai**”.

Two cover systems: The Tender document relating to the Technical Bid duly filled in and signed must be put in sealed cover superscribed as “**Technical Bid**”. The sealed Tender cover containing the Technical Bid should be sent with Earnest Money Deposit (EMD). A crossed demand draft 1% to the total cost value should be drawn in favour of ‘The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai’ towards EMD charges. The Tender document relating to the Commercial Bid must be duly filled in and signed and must be put in a sealed cover separately, superscribed as “**Commercial Bid**”. Both the sealed Technical and Commercial Bids should be sent in a sealed cover to The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai – 625 021. Covers received without such superscription will be summarily rejected.

The University will not be held responsible for the postal delay and postal transit. Any Tender received after the due date and time will summarily be rejected. Tenderers will be informed the date of opening the Tender. The tenderer should enclose an attested xerox copy of the commercial tax certificate regarding GST number. The supply should be made within 30 days from the date of receipt of supply order.

The bidders must fulfil the following Eligibility conditions and also submit documentary evidence in support of fulfilling these conditions while submitting the Technical Bid. The University will consider the Price bid of the vendors who qualify in the Technical bid. For those vendors who are not qualified in the Technical Bid, the Price bid will not be considered. The bidder should submit i) GST, ii) TIN number, iii) Income Tax return details, iv) List of Institutions / Organizations supplied, v) Dealership certificate / Company Profile, etc.

The rates quoted by the firm should be valid for a period of one year from the date of acceptance of tender and no escalation of rates will be allowed under any circumstance. The successful tenderer is also requested to remit 5% to the cost of supply as security deposit for the proper fulfilment of supply and contract. EMD will be exempted for those providing MSME

Certificate. The tenders received on the date specified in the Tender Schedule will be opened by the Committee constituted by University within a week at School of Biotechnology, Madurai Kamaraj University.

The successful tenderer should deliver the items on destination and no freight charges will be paid by the University on any circumstances. If the successful tenderer fails to execute the above supply as per the schedule and satisfaction of the authorities, the resultant excess expenditure will be recovered from the tenderer apart from forfeiting the EMD amount. If any tender is withdrawn, the EMD of the tenderer will be forfeited.

The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai is under no obligation to accept the lowest or any tender and reserve herself the right to accept or reject any tender in whole or in part without assigning any reason and tender will be accepted only on those conditions. The Chairperson, School of Biotechnology reserves the right to accept or reject any tender without assigning any reason. Tenders received in ordinary covers without seal will not be considered.

Specifications of Orbital shaker

Orbital shakers are specially designed equipment for mixing samples to ensure homogenous growth of culture at specific temperatures. Thus, the equipment needs to be equipped with the following specifications.

- Counter balanced mechanism for high stability in uneven load of different sized flasks
- Microprocessor controller with 4" LCD display for display of shaking speed & temperature
- Automatic Calibration for temperature
- Universal Shaking Platform to accommodate different sized assorted flasks
- Additional tray to store samples
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points with date and time for temperature
- Chamber calibration port on side

Platform Size	580 mm x 600 mm
Maximum Shaking Capacity (Volume x No. of flasks)	500 ml x 24, 1000 ml x 15, 2000 ml x 9
Temperature range	5°C above ambient to 60°C
Shaking Speed range (RPM)	30 to 250
Temperature control	Microprocessor with sensor
Display	4" LCD Screen, Large size
Power Failure Alarm	Audio Visual Alarm
Door Open Alarm	Audio Alarm in case door opens
Temperature Variation Alarm	Set Temperature $\pm 2^{\circ}\text{C}$
Illumination	Watts Fluorescent Lamp
Internal Body Material	Stainless Steel
External Body	Material Powder Coated mild Steel
Noise Level	Less Than 65 db(A) Voltage Stabilizer
	Servo type
Electrical	220-240 volts, 50Hz

Safety Features:

- Electrical circuit breaker
- High temperature safety cut off & alarms for high/low set temperature
- Overload cut off relay for compressor
- Time delay for compressor

Price should include Tax and Air freight, insurance and customs clearance if any.

Warranty: Two years from date of installation.

Specifications UV-Vis Spectrophotometer (PC based)

Optical System	: Single Monochromator, Double beam
Light Source	: D2 Lamp or Xenon Lamp: 190 to 350 nm Halogen Lamp: 330 to 1100 nmLight source
Exchange Wavelength	: User selectable within a range of 330 to 350nm
Detector	: Silicon photodiode
Wavelength Range	: 190 – 1100 nm
Wavelength Accuracy	: +/- 0.2 nm
Wavelength Repeatability	: +/- 0.1 nm
Scanning Speed	: 10 to 8000 nm/min
Slew Speed	: 24,000 nm/min
Spectral Bandwidth	: 1.0 nm fixed
Photometric Range	: -3 to 3Abs
Photometric Accuracy	: +/-0.0015Abs (0 - 0.5Abs), +/-0.0025Abs (0.5 - 1Abs), +/-0.3%T
Baseline Stability	: +/-0.0004Abs/hour
Baseline Flatness	: +/-0.0005Abs
RMS Noise	: 0.00004 Abs
Measurement Modes	: Quantitative Analysis
Wavelength scan	: (Abs, %T, %R, sample reference)
Time scan	: (Abs, %T, %R, sample reference)

Data Processing : peak picking, peak height, peak area, peak width , Derivatives, smoothing, Data Transaction, Arithmetic , Base line connection, subtraction, Deconvolution, vertical axis conversion, horizontal axis conversion.

Other standard functions: validation software, Enzyme activity calculation, film thickness measurement, color analysis.

Instrument should be upgradable to be used with Micro volume of samples less than 1µl.

Should quote the following items along with the instrument:

Accessories :

1. Quartz Cuvettes, 10 mm - 1 Pair
2. Suitable Desktop system with Intel core i5, 8 GB RAM, 1 TB hard disk with 22 inch monitor

Price should include Tax and Air freight, insurance and customs clearance if any.

Warranty: Two years from date of installation.

Specifications for Laminar Air Flow

SIZE: Minimum 3 Feet Length & 6 feet Height (including wheel height) • Inner dimension (minimum 1280 x 850 x 1760 mm (W X D X H))

MATERIAL OF CONSTRUCTION: Stainless steel 304 • Pre-Filter – 10 microns • HEPA Filter 0.3 microns • Fluorescent lamp • Flow Ratio: Class II Type B2: 100 % Exhaust • UV – Light • Front door • Virus tight extract HEPA filter • Pressure gauge • Gas cock • Extra power outlet switch

PRESSURE GAUGE: • Housing: Die casting aluminium case and bezel, with acrylic cover; Accuracy: +/-2% of full scale; Pressure limits: 15 psi; Temperature: 20 to 140 Degree F; Size: 4" dia; Weight: 510 gram; Range: 0-25 mm

HOUR METER: • Range: 9999 hrs; Weight: 75 gram; Size: 2" X 2 "

CLEANLINESS LEVEL: Class 100

ILLUMINATION: Minimum 40 watts Fluorescent tubes

NOISE LEVEL: 65+/-5 db or less 8.

POWER SUPPLY: 230 v AC, 50Hz 9.

WARRANTY: 2 Years