

**TENDER NOTIFICATION  
SCHOOL OF BIOTECHNOLOGY**

	<b>MADURAI KAMARAJ UNIVERSITY</b> <i>(University with Potential for Excellence)</i> Madurai - 625 021, Tamil Nadu, INDIA.	
---	---	---

Ref. No. MKU/SBT/MMB/ SERB/2022

Date: 06.04.2022

For and on behalf of School of Biotechnology, Madurai Kamaraj University, the sealed tenders (Two-cover system) are invited by Dr. P. Varalakshmi, (Principal Investigator-SERB Project) School of Biotechnology, Madurai Kamaraj University, Madurai-625 021, under the SERB sponsored project, for the supply and installation of the following items, from the Reputed suppliers/vendors.

No.	ITEM	EMD Amount	Period of validity
1	Lyophilizer	1% of the estimate cost	90 Days
2	Microplate Reader	1% of the estimate cost	90 Days

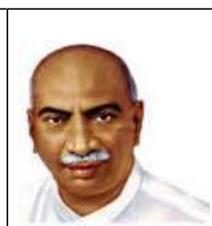
Sealed Tenders are invited until **5.30 p.m. on 21.04.2022**, which will be opened by the Purchase Committee constituted for that purpose by Madurai Kamaraj University within a week after receipt of the quotes. Technical bid along with EMD and Price bid must be submitted separately in a sealed covers and should not be clubbed together. Quotes without EMD will be considered and summarily rejected. EMD should be furnished in the form of DD drawn favour of “ **The Principal Investigator and The Chairperson, School of Biotechnology, Madurai Kamaraj University, Madurai**”.

The specifications, terms & conditions are available in the University website [www.mkuniversity.ac.in](http://www.mkuniversity.ac.in) from: 06.04.2022. The tender documents are available for downloading at the website. **Last date for the submission of quotes is 21.04.2022 (before 5.30 PM).**

**Dr.P.Varalakshmi**  
**The Principal Investigator-SERB, Project**  
**School of Biotechnology**  
**Madurai Kamaraj University**  
**Madurai-21**



**Madurai Kamaraj University (University with Potential  
for Excellence) MADURAI – 625 021**



### Tender Conditions

Sealed Tenders are invited for the supply of listed equipment (No: 1-2) for the SERB sponsored project, Department of Molecular Microbiology, School of Biotechnology, Madurai Kamaraj University, Madurai - 625021 up to 5.30 pm on 21.04.2022.

The Tender applications are expected from the reputed Manufacturers / Authorised dealers. Tenders in sealed cover as superscribed “**Tender quotes for the supply of 1. Lyophilizer, 2. Microplate Reader (separate quotation is need to be submitted for each equipment) 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 Principal Investigator and 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 Dr. P. Varalakshmi, (Principal Investigator-SERB Project) 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.

Dr. P. Varalakshmi, (Principal Investigator-SERB Project) School of Biotechnology, Madurai Kamaraj University, Madurai-625 021 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. Dr. P. Varalakshmi, (Principal Investigator-SERB Project) 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 for Microplate Reader**

- A Microplate Reader capable of spectral scanning from UV-visible to near-IR wavelength range and should be able to read 6-384 well microwell plate formats.
- Should work as a standalone touch screen system with computer-controlled software (or) able to run with separate desktop enabled computer controlled software (Suitable Desktop system of Intel core i5, 8 GB RAM, 1 TB hard disk with 22 inch monitor should be provided).
- Instrument should have provision for rapid measurement of low sample volumes to quantify DNA/RNA/Protein as well as purity analysis ( $A_{260}/A_{280}$ ,  $A_{260}/A_{230}$ ) for nucleic acids directly
- The instrument should have an inbuilt vertical cuvette port for absorbance measurements.
- Analysis Software supplied should be supplied with unlimited installation user license
- Should be able to read end point, kinetics, turbidimetry, spectral scanning and also kinetic spectral scan
- Communication options: USB ports to PC, Wi-Fi dongle and data transfer devices, ethernet port
- Instrument should have monochromator-based wavelength selection capability from 200 nm to 999 nm with 1 nm increments
- Should have Xenon flash lamp with longer life as illumination source and powerful photodetectors for precise read-outs
- Should have photometric accuracy of  $\pm 2$
- The instrument should have inbuilt incubation and linear shaking options for longer kinetic assays etc.
- Incubation temperature control should be from ambient to +45 °C
- Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer)
- Detailed PC configuration for the control software should be indicated by bidder
- Equipment should be supplied with a UPS backup.
- Price should include Tax and Air freight, insurance and customs clearance if any.
- Warranty: Two years from date of installation

## Specifications for Lyophilizer

1. The lyophilizer should have all-in-one structure, small in size, no external flange, easy to use, no leakage.
2. The cold trap and console are made of stainless steel, no leakage and corrosion resistant.
3. It should have sample pre-frozen function, large cold trap opening.
4. Should have strong ice holding ability.
5. Should have branded compressors with high efficiency.
6. Should have vacuum pump protection function that can set the cold trap temperature to protect the vacuum pump life.
7. Should have intelligent data recording system and display for the cold trap temperature curve, sample temperature curve, vacuum curve.
8. Should have liquid crystal display with drying curve display.

### Key specification

Freeze Dry Area	:	0. 1M <sup>2</sup>
Freeze drying machine control system:	:	Reliable and Stable
Cold trap	:	Stainless Steel
Cold Trap Temp.	:	-55°C
Vacuum Degree	:	<10 Pa
Vacuum Pump	:	High speed
Water Capture Capability	:	3 -4 Kg/24h
Material tray	:	φ200*4 Mm
Power	:	970W
Dimensions	:	565X420X (360+430)Mm
Material Capacity	:	1.2 L

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

Warranty: Two years from date of installation