



**Department of Biochemistry
University of Kerala
Kariavattom, Thiruvananthapuram, Kerala 695 581**

Date: 27 October 2021

BCH/UOK/Plan/NBL/VV6/2021

Sealed quotations are invited from the reputed firms/ manufactures/distributors for the supply of **Refrigerated Micro Centrifuge** with relevant specifications with on or before 11 November 2021 at 4.00 PM. Sealed quotations should be addressed to Principal Investigator, Setting up of neurobiology lab – Department of Biochemistry (Plan Fund), Department of Biochemistry, University of Kerala, Thiruvananthapuram - 695581 with superscription "**Quotation for the supply of Refrigerated Micro Centrifuge**". The quotation will be opened on 12 November 2021 at 3 PM in the presence of such tenderers or their authorized representatives who may be present at that time. Bidders have to note *Appendix - Technical Specifications* and *Appendix II- Terms and Conditions* and should attach the relevant documents along with the quotation.

APPENDIX - I

SLNo.	Technical specifications for Refrigerated Micro Centrifuge
1.	System should be 24 positions 1.5/2.0 Compact versatile refrigerated microcentrifuge and have a maximum Speed of 15,000 rpm/21,300 x g with a brushless motor and user defined RPM or RCF setting
2.	Temperature range should be from -10°C to +40°C and should be able to maintain 4°C at maximum speed
3.	System should have timer settings from 10 sec to 9:59 h, with continuous run function
4.	System should have a maximum capacity 10 x 5 mL tubes
5.	Rotor must be metallic and withstand autoclaving at 121°C for 20 mins
6.	System should also have the provision to use both fixed angle and swing bucket rotor
7.	Adapters to support tube formats like 0.2 mL, 0.5 mL should be available

8.	Rotor lids should have a QuickLock-system for secure lid closing and opening
9.	Aerosol tightness of the rotor should be certified by a third-party agency
10.	System should be possible to operate the rotor even without rotor lid
11.	System should have fast temperature function for rapid cooling of centrifuge
12.	System should have an in-built condensate drain to prevent water accumulation inside the stainless rotor chamber to avoid corrosion
13.	System should have automatic shut off function of the compressor to reduce energy consumption and to extend compressor life when not in use for long hours
14.	System should be able to start the timer count only when the set centrifugation RPM is reached, to support the short spin protocols
15.	System should possess a separate short spin key with defined maximum speed for brief spin
16.	System should be possible to operate the centrifuge at set rpm, for short spin protocols
17.	System should possess dedicated soft function to perform gentle acceleration and deceleration to enhance sedimentation
18.	System must have finished time function to indicate time since centrifugation complete
19.	System should support quiet operation in work place with noise levels <54 dB(A)
20.	System must have an emergency lid opening in the front side
21.	System should have bright digital display with LCD only
22.	Instrument should be European CE Certified
23.	System must have an USB-port for service maintenance
24.	Warranty 3 years from the date of successful installation in the lab

APPENDIX – II

Terms and conditions

1. The prices quoted should be that applicable for educational institutions (5% GST)
2. The item should have a warranty of 3 years
3. The firm should extend service within 24 hours.
4. Prices are to be quoted FOR DESTINATION (Department of Biochemistry, University of Kerala, Kariavattom). The prices quoted should clearly indicate the 4 following charges: Price of the equipment including taxes; Price of optional accessories if any; Customs duty if any (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges.

5. Technical Bid and Financial Bid must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.
6. Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in single tender it will be summarily rejected.
7. Performance Certificate of the specified model should be attached along with the quotations.
8. The undersigned reserves have the right to reject any or all of the tenders received without assigning any reason thereof.
9. If any of the components is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.
10. **Supplier authorization letter and specification compliance sheet to be provided along with the quotation,**
11. Quotations should also include all the supportive work for installation, loading and unloading of the equipment.
12. The interested bidders shall submit their best possible offer before last date to the undersigned.
13. Should be a certified company which has provided at least 10 installations of products within or outside India
14. The rate quoted shall be valid for a period of one year.
15. The vendor should show the country of origin certificate of the product.



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