



# UNIVERSITY OF KERALA

## Thiruvananthapuram, Kerala, India – 695034

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala State Legislative Assembly)  
(Re-accredited by NAAC with 'A<sup>++</sup>' Grade)

48765/Ad BIV A/2024/UOK

01.11.2024

### E-TENDER NOTICE

Competitive Tenders are invited from the reputed Manufactures/Firms /Suppliers for the supply of Automated Vibrating Blade Microtome with the following specification by the Department of Biochemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram.

Bid submission start date	02.11.2024
Last date and time for submission of tender online	16.11.2024, 05.00 PM
Date and time of opening of bid	19.11.2024 10.30 AM
Tender Fee	Rs.7080/-
Cost of EMD	Rs.30,000/-
Completion/delivery period	60 days
For technical details, contact	Dr. Viji Vijayan, Assistant Professor Department of Biochemistry, University of Kerala Ph. No. 9074529255 e-mail: vijivijayan@keralauniversity.ac.in

### TECHNICAL SPECIFICATIONS

1. A Fully Automated Vibrating Blade Microtome is required for sectioning unfixed specimens from Neurobiology (Patch clamp).
2. The equipment must be a robust instrument with blade holder and adjustment screw to minimize the vertical deflection of the blade below 1 µm.
3. There must be a separate control panel - foil protected.
4. There must be automatic specimen retraction during blade return stroke and automatic specimen feeding prior to each section.
5. There must be a support for removable ice tray, buffer tray, blade holder and vertical deflection of the blade.
6. Horizontal stroke: 45 mm
7. Blade holder: rotatable by 90-degree, clearance angle adjustment of 15-degree, 18 degree or 21 degree



8. There should be 8 individually programmable parameter settings
9. Motorized blade holder travel speed adjustable:
  - a. -Between 0.01 - 1.5 mm/s in:
  - b. -0.01 - 0.1 in 0.01 mm/s steps
  - c. -0.1 - 0.5 in 0.02 mm/s steps
  - d. -0.5 - 1.5 in 0.1 mm/s steps
10. Accelerated motorized blade return travel speed of 2.5 mm/s
11. Amplitude adjustment: 0-3 mm in 0.05 mm steps
12. Frequency: 85 Hz +/- 5 Hz
13. There should be selection between semi-motorized or fully automatic cutting mode
14. Two fully motorized cutting modes: Single or continuous mode.
15. Specimen retraction during blade holder return
16. Stroke adjustable between 0 and 100  $\mu$ m steps.
17. Manual blade forward and return speed adjustable between 1-5 mm/s in 0.5 mm/s steps.
18. Selection between vibration on or off during manual blade forward or return movement to approach specimen.
19. "Up" button for fast approach of the specimen to the blade.
20. "Down" button for fast approach of the home position for safe and fast specimen change.
21. Adjustment screw for manual feeding prior to each section (if using semiautomatic mode).
22. Adjustable step sizes for manual feeding: 1, 10 or 100  $\mu$ m.
23. Memo button to save selected section thickness.
24. Section thickness totalizer, re-settable at any position.
25. Integrated LED-illumination, individually programmable in 5 steps.
26. Adapter for magnifier or microscope carrier.
27. 3-year comprehensive warranty
28. Proof of recent installation in reputed companies or institutions
29. Technical support available in South India and proof of technical support for the last 5 years
30. Minimum 2-3 references of scientists/ institutes appreciating the support from the company. Proof of publication is a must. DOI number to be shown for reference.

### **TERMS AND CONDITIONS**

1. Every Tenderer should submit a tender fee of **Rs. 7080/- (Rupees Seven Thousand and Eighty Only)**
2. Every Tenderer should submit an Earnest money Deposit EMD of **Rs. 30,000/- (Rupees Thirty Thousand Only)**
3. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
4. The price should be inclusive of all taxes, duties, transportation, insurance, installation etc. Nothing extra will be paid in addition to the quoted rate. Any amount in Indian rupees for installation, commission, labour, service etc shall be entered in BoQ.
5. **Compliance Statement:** Along with the technical details provide a tabular column indicating whether the equipment quoted by you meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures.



