





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⁺⁺' 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 μ m.
- 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 µm 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 µm
- 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.



- Vendors should provide clear brochures/data sheets about the software and its working. Also include adequate proof for the claim regarding the performance in terms of quality research publications is a must.
- Reference: Names of Institutes with contact person and telephone/email where similar equipment supplied by you in India [Preferably South India] shall be mentioned in the statement. The office must have been performing at least for 1 year. Proof to be attached.
- 7. **Payment Terms**: after the successful supply, installation and commissioning of the equipment.
- 8. Detailed Financial bids should be separately submitted in pdf format.
- 9. The tender shall be submitted in the two bids viz. Technical Bid and Financial Bid. Only those qualified in technical bid will be eligible for participating in financial bid. A presentation regarding the technical specification and item to be supplied shall be done before the technical evaluation committee if requested.
- 10. The bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization Form and Indian agents of foreign principals, if any, who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification".
- 11. The make and a printed literature of the product shall submit positively.
- 12. Validity of tender: Tender submitted shall remain valid at least for 180 days from the date of opening the tender. Validity beyond 180 days, from the date of opening of the tender shall be by mutual consent.
- 13. **Delivery and installation:** Proposed delivery schedule should be mentioned clearly. Delivery and installation and training should be made for the Department of Biochemistry (First floor), University of Kerala, Kariavattom Campus, Thiruvananthapuram without extra cost.
- 14. **Service facility:** Supplier should mention their details of service setup and manpower in Thiruvananthapuram who are responsible for after sales support.
- 15. The quoted item should be under comprehensive warranty for 3 years.
- 16. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Documents to be uploaded:

- Signed Compliance Matrix
- 2. Detailed Technical Brochure
- 3. Under taking of support for warranty period
- 4. BoQ in Excel and pdf format
- 5. Copy of research publications that shows the use of the model no & make of the equipment.
- 6. Proof of recent installation in reputed companies or institutions
- 7. Technical support available in South India for the last 1 year and proof of technical support for the last 5 years
- 8. Minimum 2-3 references of scientists/ institutes appreciating the support from the company.



Prof. (Dr.) K S Anil