



Ref: NCB/F-191716/2019-2020 (N)

Date: December 18, 2019

### Specification for Vibratome

1. The system should be Fully automated vibrating blade microtome.
2. The system should be Capable for sectioning fixed and unfixed specimens.
3. The system should be a table top footprint.
4. Adjustable blade holder orientation, should be turntable to 90° in up/down direction.
5. Motorized blade holder vibration with adjustable vertical blade deflection.
6. Wide cutting vibration/frequency range of 0-90 Hz
7. Adjustable amplitude in the range of 0-3mm with 0.05um increment size.
8. Adjustable blade advancing speed range of 0.01 to 1.5mm/second
9. Blade return speed should be at least 2mm/sec
10. Adjustable section thickness control, up to 1000um with 1um increments
11. Motorized Z axis (vertical movement of tray) movement range of 20-40mm.
12. LCD display with keypad for displaying amplitude, speed, and step size.
13. Keypad for controlling amplitude, speed, and step size z-axis movement.
14. Wide specimen holder of at least 5cm diameter for enabling multiple specimen sectioning at once
15. The system should have the Ice tray for cooling the specimen bath
16. LED florescent light on top of blade holder.
17. System should be able to run in Manual/Auto mode.
18. The system should be supplied with suitable chiller 4 c to 50 c
19. All consumables required for installation and standardization of system should be supplied with instrument.
20. The system should be able to operate at 230 V /50 Hz
21. The system should be CE/ ISO certified
22. The system should have the warranty for 3 years.
23. The system should be supplied with all accessories required to function.
24. The system should be installed by the trained Engineer and at least two users should be trained at training Centre of company on operation and maintenance.
25. The product should be as per CE/IEC guideline and certificate from authorized body should be submitted. No self-declaration will be accepted.
26. Compliance to each of the above points should be separately indicated and evidence presence for each of them (Product brochures should be highlighted wherever required).
27. The service team should be in Bangalore. Contact details of Engineer should be submitted with this offer.
28. The past performance/service support in NCBS/instem/ccamp should be satisfactory and the technical evaluation will be done accordingly.

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