

## FULLY AUTOMATED ROTARY MICROTOME WITH ACCESSORIES

### Technical Specifications:

1. A state-of-the-art fully motorized heavy-duty automated microtome: Single stroke, continuous stroke, rocking stroke, and programmed mode for the sectioning of soft, hard, paraffin, and resin embedded blocks.
2. Section thickness range should be between 0.25 to 100 $\mu$ m with increments in the range of 0.5 $\mu$ m, 1 $\mu$ m, and 5 $\mu$ m with LED display.
3. Trim thickness range should be 1-600 $\mu$ m with 1 $\mu$ m, 2 $\mu$ m, 5 $\mu$ m, and 10 $\mu$ m increments, respectively with an LED display.
4. Vertical stroke 70-80mm. Specimen advance 30-35mm.
5. Section counter, knife angle position locator, and specimen orientation light facility should be there.
6. Emergency stopping facility and lockable hand wheel should be present.
7. It should have the option of foot pedal operation and an emergency stop button in automated mode.
8. Automatic object return to starting point and connection for backlighting with the cold light source.
9. Directional specimen holder fixture with a quick clamping system, standard clamp, and universal cassette clamp.
10. Round specimen holder with all accessories.
11. Should have spacious, removable section waste tray with integrated armrest.
12. Universal knife holder base, disposable blade holder, disposable blades, stereo zoom microscope attachment for glass knife sectioning with cold light source using gooseneck. Glass knife maker, Glass knife holder. Glass knife box, high-quality glass strips for making glass knife (~30 pcs). Glass knife maker and its accessories should complete the whole system from breaking to making of glass knife ready to use. The vendor should make sure that the glass knife holder of the microtome accepts this glass for sectioning. The specimen holder of the microtome should be capable of holding resin blocks for sectioning.
13. Instrument should be capable of making semi-thin sections of resin-embedded sections with the help of a glass knife.
14. Instrument should have an operating voltage suitable for Indian plugs.

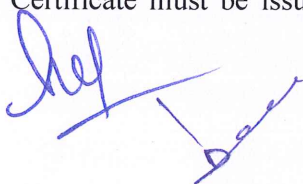
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15. High profile disposable blades pack as well as low profile disposable blade pack, each.
16. Five years of warranty and validation of the instrument should be done every six months.
17. One branded vacuum pump; Gast Vacuum/pressure diaphragm pump with gauges, regulators, and relief valve, single head, 1.0 cfm, 220/240 VAC.
18. Desiccator SCHOTT DURAN DN300, Outlet in Lid with Stopcock, flat flanges, NOVUS junction, and porcelain plate should be quoted with the system.
19. One UVP make hybridization oven HB-1000 with orbital tray and rocker tray with stacking kit for UVP HB-2000.
20. Standard flat embedding mould made up of silicone at least twenty, with 21 numbered cavities measures: 14mm(L) x 5mm(W) x3mm (D). Should be reusable and must withstand 65°C temperature.
21. Slide warmer hot plate with digital temperature display and control.
22. A vibration-free table to accommodate the instrument.
23. Dumont precision tweezers made of titanium, Type 5, six in numbers, (thickness of tip 0.01mm, the width of tip 0.05mm, and length 110mm), Type 3, six in numbers, (thickness of tip 0.1mm, the width of tip 0.17mm and length 120mm).
24. Price of individual components should clearly be specified in the standard and optional format in the quote. The bidder should justify each specification point by point in their order of requirement and should provide the evidence for the same in the technical brochures of the instrument with the page number. Photocopied catalogues will not be considered for technical specification evaluation. Quotation not done in the proper form may invite technical rejection and will be technically disqualified.
25. The microtome system has to be quoted with all other accessories, such as stabilizer if required, power chords, and 4 extra lamps for stereo zoom microscope, since these accessories are required for effective use of this system. Quotation missing any of the above-mentioned items or their parts would be disqualified straightway.

**Conditions for tender:**

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian



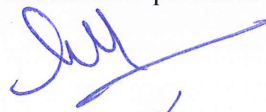



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- Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and European CE be approved by 4 digits notified body.
  4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
  5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
  6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
  7. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
  8. Offered Equipment should have a strong Government Installation base.
  9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
  10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
  11. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
  12. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
  13. Company should quote their latest model and need to provide an affidavit for the same.
  14. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.





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15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
16. Any bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (i.e., Registration certificate issued by the Ministry of Commerce and Industry (Department for Promotion of Industry and Internal Trade- DPIIT after October 2020). If any such bidder is not registered with DPIIT they will be liable for technical disqualification.
17. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
18. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).
19. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6<sup>th</sup> to 10<sup>th</sup> year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.

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