



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091

Phone No (033) 40340307/320
E mail: procurement@wbmsc.gov.in

Supply and Commissioning of Different Medical Equipment for Calcutta National Medical College and Hospital
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- 071 /2025

Dated-21.01.2025

Amendment-I

Revised Technical Specification **Schedule V**

Fully automated embedding system (heating embedding module and cold plate)

PARAFFIN Embedding Module - Automated Embedding Station (Hot + Cold)
<i>The instrument MUST be a combination of 2 units: Paraffin Dispenser HOT & COLD PLATE making it a Modular Unit, following specs are mandatory:</i>
A. Hot Plate
1. Microprocessor controlled two piece tissue embedding system consisting of heated paraffin station and separate cold plate.
2. Should have symmetrical and unobstructed workspace: The 100% symmetrical and unobstructed workspace with equal left & right working spaces from the dispense nozzle in between
3. Should have Easy-to-open spacious trays for efficient access to cassettes and molds. Tray lids should be half opened to keep the temperature stable.
4. Should have bright white LED for contrast and visibility of the most transparent samples- Easily Controllable by the key on LCD control panel: The bright white LED improves contrast and visibility of the most transparent samples.
5. Provide the error message for operation condition monitoring.
6. Large heated working surface and integrated mold tray and cassette bath with temperature adjustment from 50 to 75°C in 5° increments.
7. Cassette bath and mold tray should be interchangeable to accommodate changes in

embedding work flow.
8. Should have Easy to clean metal frame and silicon coated wristpads. The ergonomic wrist pads increase hand stability and precision, even when embedding the most difficult biopsies.
9. Programmable for weekly timer, work days, work starting time, work end time, real time and day of week for automatic switch on and off of the instrument.
10. Should have RAPID Heating: to boost heating if wax is needed to refill in between instrument run, then rapid heating allows wax granules to melt within 15 minutes
11. Removable tray must hold: approx. 150 cassettes
12. Paraffin tank must have at least 4 L capacity
13. Large peltier element cold spot to assist tissue orientation, the Rectangular shaped Peltier cooling unit in front of the nozzle—for immediate freezing of the molten paraffin
14. Display: 5.7 inch capacitive LCD touch screen--MANDATORY
15. Two Heated removable waste tray & Heated removable forceps 6 nos. holder easily accessible from either side.
16. Power supply: 110-120 V AC, 220-240 V AC, 50/60Hz, Power consumption: 1000 VA max
B. Cold Plate
1. Operating temperature: -6 °C (self-regulating) to hold up to 70-80 standard cassettes.
2. Temperature should strictly MUST NOT go BELOW -6 °C to avoid tissues getting hard & brittle where chances of tissue destruction & tissue breakage are high
3. Min. guaranteed workload capacity: 65 blocks solidified in 30 minutes
4. Adjustable work surface height for optimum ergonomics.
5. Provision for Self-Regulation so that no need to turn down the temperature in summer or worry about too fast cooling in winter.

Common Specs for both units:

1. Should have minimum 30 nos. of installation only in East India for similar model, out of which 50% should be in government institutions. DETAILED USER LIST MUST BE ATTACHED with details of users.
2. Should have dedicated manufacturer company's own service support or channel partner for East India (not distributor's) with a team of company's own service engineers to support us timely