



Notice Inviting e-Tender

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**Supply and Commissioning of Medical equipment for 02 (two) new
Government Medical College & Hospital, Dept. Of Pathology**

(Submission of Bid through online)

Bid Reference No.: WBMSCL/NIT-198 /2023

Dated-24.04.2023

AMENDMENT-I

Revised Technical Specification

Item No.-01

Manual Rotary Microtome

1. Manual Rotary Microtome with simultaneous Clockwise and Anti Clockwise coarse feed wheel movement as per the choice of the end users.
2. Knife holder base with lateral displacement features, including locking lever.
3. Standard specimen clamp with adapter should be provided with standard delivery
4. Sectioning thickness selection should be selectable from 0.5 to 60µm with Sectioning thickness increments range from 0 to 2µm in 0.5µm increments, from 2 to 10µm in 1µm increments, from 10 to 20µm in 2µm increments, from 20 to 60µm in 5µm increments
5. Vertical Stroke Length should be at least 58 mm along with Horizontal Specimen Feed of approx 25 mm
6. Specimen orientation facility must be available 8 degree (through X,Y axis)
7. Trimming thickness selection must be available with 2 different steps (preferably at 10µm and 50µm)
8. Specimen Retraction must be available with provision of switching on/off
9. System should come with high profile disposable blade system
10. System should come with 1 pack of high profile disposable blade (at least

50 pcs./ pack).

11.The supplier should have at least over 10 numbers of different installation bases in Kolkata.(preferably in govt. Hospital)

12.The supplier must have Kolkata based after sales service support with manufacturers factory trained engineers and established track record for providing efficient after sales service.

13.Certification: European CE/USFDA/BIS

Item No.-02

AUTOMATED ROTARY MICROTOME

1. Fully automated motorized rotary microtome along with manual operation having microprocessor controlled panel with provision for motorized cutting via operating panel or foot pedal control.
2. Precise micrometer feed system via stepper motor permits precision sectioning selectable at least from 0.5-40/60 micron in 0.5 micron stepwise increments.
3. Trimming section selectable from 2 micron onwards.
4. The vertical specimen stroke length of 70mm, larger specimen can be sectioned. The specimen holder should be clamp type and hold 60mm size block.
5. The specimen retraction should occur on return stroke. Cold light source.
6. Precise specimen orientation with zero point indication, with an orientation 8° X-Y axis helps in marking perfect orientation of the sample for sectioning.
7. Motorised coarse feed through automation. Variable sectioning speed adjustable from 0.5 to 420 mm/sec.
8. Disposable blade holder with lateral displacement feature that can hold both high and low profile blades Integrated section waste tray.

9. Certification: European CE/USFDA/BIS

10.Accessories:

Microtome disposable blades (high profile coated) - 1 packets (50 blades/pack). Microtome disposable blades (low profile coated) - 1packets (50 blades/pack).

Item No. -03

CRYOSTAT

1. Freely standing Cryostat with chamber temperature down to -35 degree C
2. 10 or more chucks holder with 2 or more fast freezing option and the temperature of the same would be -40 degree C with peltier technology
3. Maintenance free microtome with section thickness setting from 1 to 100 micro m
4. Maximum specimen size of 55 mm diameter
6. Fully encapsulated microtome for maintenance free reliability
7. Glass anti-roll guide with anti static feature to facilitate perfect stretching of sections
8. Electronic locking key to avoid any inadvertent changes in program setting
9. UVC surface disinfection is user selectable either 30 mts or 120 mts ensure protection and end user safety
10. Blade holder with finger guard assures user safety
11. Vertical stroke length of 59 mm and horizontal specimen feed is 25 mm
12. Electric coarse feed through automation.
13. Micromotor's stepper motor feed in ensures precise and high quality thin sections
14. Specimen orientation of 8 degree in x,y,z directions
15. Automatic 24 hours hot gas defrosting maximum 12 minutes duration
16. Disposable blade holder system with lateral displacement and integrated glass anti roll guide
17. Closed drainage system to allow controlled disposal of fluids
18. Certification: European CE/USFDA/BIS

Item No. -04

HOT PLATE

1. Outer body P.C.R sheet and duly powder coated-Heating elements
2. Grade of Rating: 2.0 kW
3. Temperature regulator and precise temperature controlling facility
4. Temperature range: Max. 350°C
5. Size: 18" x 18" x 12"

Item No. -05

PARAFFIN EMBEDDING BATH

1. Paraffin keeping bath capacity: 5000mL. Paraffin flowing tube temperature: 50~70°C
2. Paraffin dropping board temperature: 50~70°C. Tools bath temperature: 50~70°C

3. Tissue keeping tank temperature: 50~70°C. Tissue cassettes keeping bath temperature: 50~70°C
4. Pincer hole numbers: 4 stations. Tissue cassettes keeping bath size: 260×200×50mm
5. Voltage and frequency: AC220V±22V 50Hz .Power: 800w LS-101+ COLD PLATE
6. LED displays current temperature, preset value, start/end of time and so on.. Large working surface can put 100 cassettes. Attaining working temperature after switching on 10 minutes.

7. Certification: European CE/USFDA/BIS

Item No. -06

HEATED PARAFFIN EMBEDDING MODULE

1. Microprocessor Based Control Systems.
2. Five Independent Heating Zones For Better Performance Paraffin Reservoir Dispensing Nozzle Cassette With Mold Warmer Heated Forceps Holder.
3. Electrically Heated Forceps Holder on Both Sides.
4. Set Temperature Memorization.
5. Panel Temperature Display for All Heated.
6. Paraffin Control Flow via knob.
7. Bright Illumination of the Work Area.
8. Setting temperature Range ambient 99°C.
9. Paraffin Container Capacity 1.5 Liter.
10. Led Light.

Item No. -07

COLD PLATE FOR MODULAR TISSUE EMBEDDING SYSTEM

1. Compact table top system with
2. Cold plate area to accommodate 60-80 regular size paraffin block
3. Cold plate temperature -3°C to -12°C or better (adjustable temperature control is preferable)
4. Power supply AC 220-240 V/50 Hz
8. Certification: European CE/USFDA/BIS
5. Onsite demonstration of the instrument should be mandatory.

Item No.-08
AUTOMATED TISSUE PROCESSOR

Carousel type with 12 stations Configurations: –

Basic instrument with Vacuum/ spiral agitation a Capacity- 80-100 cassettes
Option: 1 baskets loading Tissue baskets made of metal with varying capacities of up to 100 cassettes Ergonomic control panel with foil- protected keyboard and LCD Infiltration time separately programmable for each station. Delayed start functions up to 9 days Possibility of interrupting an automatic process for reloading or removing cassettes for special applications before the end of a run Easy editing and changing of programs, even during a processing run Audible alarms, error messages and warning codes.

Advanced safety concept with Wide range of accessories should be available Nominal voltage: 100 / 120 / 230/ 240 V AC $\pm 10\%$

Nominal frequency: 50 / 60 Hz

Wax baths: Number: 2

Capacity: at least 1.8 litres

Temperature range $45^{\circ}\text{C} - 65^{\circ}\text{C}$

Excess temperature cutout: $75^{\circ}\text{C} \pm 4^{\circ}\text{C}$

Reagent containers: Number: 9 to 10 Capacity: at least 1.8 litres Standard tissue basket.

Number: 1 Capacity: max. 100 cassettes Programs :Number: 8 to 9, freely selectable Programmable infiltration time per station: _ 99 h 59 min Delayed start: 9 days Drain time: 60s Should have min.

30 no of installations in India in which --at least 7-10 nos. should be in Government Institutions in India. Should have dedicated Service Support only for India with a team of service engineers (at least 2 persons) headquarter in Kolkata, having their office in Kolkata to support all districts of West Bengal timely.

Should have European CE / USFDA / BIS certificate.

Item No.-09
Autoclave

1.High Pressure, electrically heated vertical steam sterilizer is used for sterilization of surgical instruments, dressing material, lined, rubber, plastic material by means of saturated steam under pressure of 15 to 20 psi (adjustable). A part from health services it is also used in scientific research

institutions and universities.

2. Sturdy double walled construction with boiler made of stainless steel of SS-304 sheet is easy to operate. Outer shell is made of Stainless Steel. Stainless steel Bucket with handle with perforated wall. The boiler and outer shell is provided with air insulation: Lid is made of stainless steel plate and is tightened around by wing nuts. Moulded, jointless gaskets are made of Neoprene rubber: Sterilizer is hydraulically tested upto 40 psi.

3. Fitted with water level arrangements to indicate water position inside the boiler, pressure gauge, Air/steam release cock. Loaded safety Valve which can be set at any selected point from 10 psi. to 20 psi. \pm 3 psi. and drain, ISI marked immersion heating element (one 1KW) heats the water and steam to desired temperature and pressure.

4. Size: Dia X Depth = 400 mm X 600mm

STANDARD & SAFETY CERTIFICATION: CE/US FDA/BIS

Item No.-10

Ultrapure water solution- Distilled water plant

Distillation Unit, Double Stage, with Borosilicate Boiler & Condenser, Built-in Cut-Off with Reset Button, cabinet type, Horizontal Model. Output: 1.5 - 2.5L /Hr. (approx); Electrical point: 1KW single phase (preferable); Cooling Water Consumption: 100 L /Hr; Biological Property: Pyrogen Free; pH of water: 6.9-7.1

STANDARD & SAFETY CERTIFICATION: CE/US FDA/BIS

Item No.-11

Water bath

1. Digital display, temperature range from ambient to 75°C, set value memory
2. High temperature consistency (control accuracy 0.2°C), working temperature above 44°C Indicated by flashing LED Set temperature displayed in addition to actual temperature.
3. Jet-black aluminium surface with special scratch-proof plastic coating ensures highest thermal conductivity.
4. Tank: High grade SS tank
5. Operating Voltage: 230 \pm 10VAC 50Hz 7. Capacity: 5-8 ltr.
6. STANDARD & SAFETY CERTIFICATION: Should be CE/US FDA/BIS.

Item No.-12

Centrifuge Machine

Specification	Specification Name	Bid Requirement (Allowed Values)
Performance Parameters	RPM	up to 6000 (adjustable)
	Type of Motor	Brushless (without carbons)
	Ambient operating Temperature range in Degree centigrade Celsius and humidity range	0 to 50 degree centigrade and Relative humidity 15 to 90%
	Speed Control Accuracy in case of set speed (Plus minus RPM)	50
	Rotor configuration	Angle Rotor
	Maximum Volume of the tube testable	10 ml.
	Rotor Size (Capacity)	16 Vacutainers (with 10 ml adapter)
	Warranty in Years	2
Material Parameters	Body Material of Medical Centrifuge	C.R.C Steel Finish with Powder Coating or stove painting / ABS plastic of injection moulding
Reports	ISO certification for Manufacturer	Yes
Additional Specification Parameters - Medical Centrifuge		
Specification Parameter Name		Bid Requirement (Allowed Values)
Additional adapter		6 ml. adapter 16 units
Certification		CE / EC / UK Cert / US FDA / BIS

Item No.-13

Fully Automated Flexible Coverslipping Workstation

1. The quoted model should be high quality glass coverslipper.
 2. Should be Compact bench top unit & should work with high-quality standard coverslip.
 3. Should produce slides with superior optical quality for reliable long-term storage and allow for each single glass slide separately and without bubbles
 4. It should have the storage capacity of about 250-350 pcs. of slides.
 5. Should be capable of cover slipping 200- 300 slides per hour
 6. Should be able to handle slide racks of various manufacturers and should be adaptable to individual laboratory requirements
 7. Should be used with common range of mounting media including mounting with wet mountants. Should dispense adequate amount of mount ant for coverslipping each slide.
 8. Should be equally useful for histopathology and Cytopathology slides
 9. Should be highly reliable, cause minimum wastage and form a fully automated walk-away system
 10. Should have an inbuilt system for fume extraction so as to minimize exposure of lab personnel. It should have active carbon filters for safety.
 11. Should have permanent self monitoring function with acoustic and optical instrument status indications like e.g. 'Add coverslip', 'Coverslipping completed'.
 12. Should be capable of being integrated with automated strainers of same manufacturer
- 13. Certification: European CE/USFDA/BIS**
14. Instrument should have an operating voltage suitable for Indian plugs.
 15. Voltage supply 230 V-50/60 Hz.
 16. Onsite demonstration of the instrument should be mandatory

Item No.-14

Standalone paraffin dispensing module cold plate holding more than 100 cassettes

As per available standard (NMC Guideline)

Item No.-15

Stand-alone cold plate

1. Compact table top system with
2. Cold plate area to accommodate 60-80 regular size paraffin block
3. Cold plate temperature -3°C to -12°C or better (adjustable temperature control is preferable)
4. Power supply AC 220-240 V/50 Hz
5. Certification: European CE/USFDA/BIS
6. Onsite demonstration of the instrument should be mandatory.

Item No.-16

Water bath (Tissue Floatation)

Rectangular water bath for flattening paraffin embedded tissue sections in all areas of biomedical research and routine diagnostics. used for maintaining specimens and solutions at required temperature for immunohistochemical and enzyme chemical application.

Digital display, membrane keyboard, temperature range from ambient to +75°C, set value memory.

High temperature consistency (control accuracy 0.2°C), working temperature above +44°C indicated by flashing LED.

Set temperature displayed in addition to actual temperature. Jet-black aluminium surface with special scratch-proof plastic coating ensures highest thermal conductivity. Capacity 2L

Item No.-17

Single Pan Digital Balance, Chemical

Specification	Specification Name	Bid Requirement (Allowed Values)
PERFORMANCE PARAMETERS	Type of Electronic Weighing Machine	electronic weighing scale, electronic personal weighing scale
	Range	50 mg to 1200 gm
	Resolution(gms)	50 mg
	Class type	Class-II
	Display	LED, LCD
	Number of Display	single
	Speed of measurement	1.0 Or higher
	Internal calibration	Yes/No
	Tare provision	Manual
	Connectivity to Computer	Yes, No
	Number of USB ports	optional
	Number of RS232 ports	1
	Power Requirement	Mains operated
	Power Supply	Single Phase
	Battery Backup	Yes
	Backup time(hour)	30 min
	Battery type	NA
	Type of Sensing Element	Load Cell/EMFC
	Warranty in Years	2
STANDARDS	Conformity to Indian Standrad, IS:9281-3 (1981) part I,II, III & Part IV (latest)	Yes
	BIS Marked	No
	CE Certified	Yes, No
DIMENSIONAL & MATERIAL	Pan/ Platform Shape	rectangular, Square
	Pan/ Platform Size	290 mm x 240 mm, 300 mm x

Specification	Specification Name	Bid Requirement (Allowed Values)
PARAMETERS		300 mm
Additional Specification Parameters - Electronic Weighing Systems-IS:9281-Part I,II, III & Part IV		
Specification Parameter Name		Bid Requirement (Allowed Values)
warranty 2 years		Mandatory
Certification		European CE / US FDA/ BIS

Item No.-18

Balance, Chemical with weights

As per available standard (NMC Guideline)