

Dr Baba Saheb Ambedkar Hospital
(Govt of NCT of Delhi)
Sector-6, Rohini, Delhi – 110085

Hospital Open Tender – List of Items (Pathology)

Tender ID – 2017_BSAH_130983_4

| S.No. | Name Of The Items | Specification If Any | Unit(s) required* |
|-------|----------------------------------|--|---|
| 1 | FULLY AUTOMATED TISSUE PROCESSOR | <ul style="list-style-type: none"> ➤ Fully automated tissue processor with all accessories. ➤ Microprocessor controlled flow through tissue processor to automatically perform fixation, dehydration, clearing and paraffinimpregnation of tissue. ➤ Capacity: 100-150 cassettes in organized basket. ➤ Reagent stations – number of vessels: 10(1.2- 2 L each). ➤ Paraffin stations – number 2 (1.8-2L each). Temperature range 35-70° C, over temperature release. ➤ Following programmes should be available <ul style="list-style-type: none"> • Number of programs – 10-12 (selectable) • Programmable time per station: from 1 sec to 100 hrs. • Spiral agitation, vertical agitation, centrifuging, centrifuging time should be selectable. • Programme can be delayed start or finished up to 5-7 days in advance. ➤ Fume extraction system. ➤ Should be an open system capable of using standard cassettes from open market. ➤ Screen display of time, date, cycles, step by step of record of processing. ➤ Movement of reagents with vacuum and positive pressure with vacuum selection at any step. ➤ Digital display/ remote alarm to signal possible problems and reagent change etc. ➤ Accessories, spares required for functioning of equipment from day 1 to be provided with the equipment free of cost. ➤ The unit shall be capable of being stored continuously in ambient temp of 0-50°C and relative humidity of 15-90%. ➤ PowerPoint 220-240 V, 50 Hz fitted with Indian plug. ➤ Resettable over current beaker shall be fitted for protection. ➤ Should be FDA or European certification or ISI approved product. | 02 (Two) Nos. including 01 (One) for pathology + 01 (One) for Forensic Medicine |

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| | | <ul style="list-style-type: none"> ➤ Certification of calibration and inspection from factory as and when required. ➤ Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page/ para number of original catalogue. ➤ User technical/ maintenance manual to be supplied. ➤ List of important spare parts and accessories with their part number and costing. ➤ Safety device which will lock the tissue basket at the last station before paraffin wax station if wax is not melted | |
| 2 | SEMI AUTOMATIC ROTARY MICROTOME | <ul style="list-style-type: none"> ➤ For producing thin sections of different hardness for routine paraffin embedded with smooth sections which are artifacts free. ➤ Touch key operated micron setting and LCD display. ➤ Smooth running hand wheel. ➤ Precise guide way and clamping device for knife holders with optimum sliding capacity. ➤ Knife holder suited for standard disposable blades. ➤ Range of section thickness from 0.5 to 100 micrometer in 0.5 micron steps. ➤ Trimming thickness of 0-300 micrometer. ➤ Motorized horizontal specimen advance. ➤ Motorized advance (2 speeds) / return of specimen. ➤ Manual vertical stroke. ➤ Convenient specimen holder size up to 50X50 mm with standard object. ➤ Specimen orientation – horizontal 8° +/- 1°, vertical 8° +/- 1°, Z axis 360°. ➤ Spacious integrated section waste tray. ➤ A heavy and rigid base to render a shake proof operation. ➤ Should provide accessories, spares required for functioning of equipment from day one to provided with equipment free of cost. ➤ PowerPoint 220-240 V, 50 Hz fitted with Indian plug. | 02 (Two) Nos. including 01 (One) for pathology + 01 (One) for Forensic Medicine |

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| | | <ul style="list-style-type: none"> ➤ Should be FDA or European certification or ISI approved product. ➤ Certification of calibration and inspection from factory as and when required. ➤ Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page/ para number of original catalogue. ➤ User technical/ maintenance manual to be supplied. ➤ List of important spare parts and accessories with their part number and costing. | |
| 3 | HPLC BASED EQUIPMENT FOR Hb A1C TESTING | <ul style="list-style-type: none"> ➤ Fully automated compact bench top model. ➤ Sample requirement whole blood results within 5 minutes per sample. ➤ Automatic dilution should be available. ➤ Inbuilt thermal printer and facility to attach with latest computer and laser printer. ➤ Should give accurate HbA1c result even if HbF values are high and sample having HbS HbC HbD and HbE. ➤ No interference with Lipemic or hyperbilirubin plasma. ➤ Should be USFDA approved or European Union CE certification or ISI approved. | 01 (One) Nos. |
| 4 | SEMI AUTOMATED COAGULATION ANALYZER | <ul style="list-style-type: none"> ➤ It should be a semi-automated 4 channel coagulation analyzer. ➤ Principle: Scattered light detection method for clotting (percentage detection), colorimetric for chromogenic assay and latex enhanced turbidimetric method for immunoassay. ➤ It should hold 15-20 reaction cuvettes. ➤ Should have LED light source of 405, 640 and 800 nm to perform clotting, chromogenic and immunoturbidimetric tests. ➤ It should have 10-20 reagent locations, with 4-6 positions for reagent incubation at 37° C. ➤ It should have color touch screen LED facility for easy operator intervention and understanding. ➤ It should have built in terminal graphic printer. | 01 (One) Nos. |

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| | | <ul style="list-style-type: none"> ➤ On board multilevel QC with Levy Jennings chart per parameter. ➤ It should support a wide range of parameters like PT, APTT, Factor assays, LA1 & LA2, Protein C, Protein S, Fibrinogen, Thrombin time, AT III and D-dimer if possible. ➤ Units of measurement should be seconds, INR, mg/dl, g/dl. ➤ It should support multi-standard calibration of parameters. ➤ List of consumables in respect of equipment, e.g. reaction cuvettes, plastic consumables. Minimum government rate should be provided. ➤ Should be US, FDA or ISI or European Union certified. | |
| 5 | ELECTROLYTE ANALYZER | <ul style="list-style-type: none"> ➤ Microprocessor controlled Ion selective electrode Technology based electrolyte analyzer with automatic calibration and washing. ➤ Sample volume 70-80 microlitre preferably. ➤ The instrument must measure all parameters in Serum/Urine/Body Fluids through single injection / aspiration of sample. ➤ Should have electrolyte parameters Na⁺, K⁺ and Ca⁺⁺. Display of results on LCD display and with built in thermal printer. ➤ All calibration and washing reagents should preferably be in separate packs to avoid wastage. ➤ Economical standby mode with extended double calibration interval to reduce the reagents consumption. ➤ Electrodes should have long life and low maintenance. ➤ The analyzer should be temperature controlled at 37° C for accurate reading. | 01 (One) Nos. |
| 6 | MICROWELL PLATE ELISA READER | <ul style="list-style-type: none"> ➤ The system should be 8 channel optical measuring system. ➤ They should be able to read U-, V- or flat bottom 96 well plate. ➤ The photometer should be filter wheel based. ➤ The results i.e. Abs, sample no., interpretation must be seen on the screen. Graphs should be displayed on the screen. | 01 (One) Nos. |

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| | | <ul style="list-style-type: none"> ➤ System should have halogen lamp with lamp off mode when not in use to enhance the life of the lamp. ➤ System should be provided with 405nm, 450nm, 492nm, and 630nm standard filter. There should be at least 3 extra filter blank positions. ➤ System should have large LCD display, with user friendly touch screen for software operation. ➤ The microwell plate position should have aerosol cover facility to prevent external contaminants and stray lights. ➤ It should have measurement with absorbance range 0-3.0 abs. ➤ The on board software should have capability of storing the calibration curve data for 6-8 standards in all the test programs. ➤ The system should have up to 3 cut offs equations per qualitative test. ➤ It should have facility for plate mapping. Plate mapping must allow positioning of control, calibrators, blanks and samples at any locations on the plate. ➤ The system must accept external printer and must print results in preformatted matrix, form giving details such as sample no., value, Abs, and interpretation, with cutoff equation for qualitative results. ➤ Accuracy and linearity 1%. ➤ Powers supply 220-240 VAC. ➤ The onboard software should have QC data storage facility with the Levy Jennings curve. ➤ It should have ports for external printer and for transmission of data to the host computer. ➤ It should have optional host computer software for extensive data management capability. ➤ Price list of consumable e.g. printer paper roll and printer ribbon and accessories should be quoted. ➤ Calibration facility as and when needed. ➤ Should be USFDA or ISI or European certified. | |
| 7 | TISSUE FLOATATION BATH | <ul style="list-style-type: none"> ➤ For distortion less and wrinkle free histopathology sections. | 04 (Four) Nos. including 02 (Two) for pathology + 02 |

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| | | <ul style="list-style-type: none"> ➤ Electrically operated having temperature controller / thermostat with heater element plate embedded. ➤ Should be painted with powder coated paint especially on the inner surface of water bath which is rust resistant. ➤ Should have high grade insulation material filled around water bath. ➤ Temperature range – Room temperature to 70-80 degrees C. ➤ Power supply – 220 volts, 50 Hz, single phase, AC. | (Two) for Forensic Medicine |
| 8 | MICROSLIDE CABINET | <ul style="list-style-type: none"> ➤ Made of Epoxy powder coated mild steel Body of Gauge-20 with angular support. ➤ Slide holding drawer of Aluminium for keeping 75x25 mm slides in vertical position with each drawer capacity 200 slides which moves smoothly in a slot and is removable for easy lifting. ➤ With place for index card holder in front. ➤ Total capacity 10000 slides (Ten Thousand). ➤ Complete with door lock and key. | 20(Twenty) Nos. Including 10 (Ten) for pathology & 10 (Ten) for Forensic Medicine |
| 9 | BLOCK CABINET | <ul style="list-style-type: none"> ➤ Made of Epoxy powder coated mild steel Body of Gauge - 20 with angular support. ➤ Containing sliding drawer, having 4-8 compartment with capacity of 300-400 Blocks each drawer. ➤ Index card holder and handle should be provided on front panel of drawer. ➤ Total capacity 10000 slides (Ten Thousand). ➤ Complete with door lock and key. | 20(Twenty) Nos. Including 10 (Ten) for pathology & 10 (Ten) for Forensic Medicine |
| 10 | GROSSING KNIVES 8" | Stainless steel with built in handle 8 inches | 08(Eight) Nos. Including 04 (Four) for pathology & 04 (Four) for Forensic Medicine |
| 11 | GROSSING KNIVES 10" | Stainless steel with built in handle 10 inches | 08(Eight) Nos. Including 04 (Four) for pathology & 04 (Four) for Forensic Medicine |

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| 12 | GROSSING KNIVES 12" | | 08(Eight) Nos. Including 04 (Four) for pathology & 04 (Four) for Forensic Medicine |
| | | Stainless steel with built in handle 12 inches | |
| 13 | DEEP FREEZER | <ul style="list-style-type: none"> ➤ Lab Deep Freezer, Temp. Range -15° C to 20° C (minus fifteen to minus twenty ° C). ➤ Horizontal type, capacity 150 to 200 litre (one hundred fifty to two hundred litre) ➤ Microprocessor controlled, temperature regulator. ➤ CFC free (Refrigerant) ➤ Double walled PUF insulation. ➤ Solid door. ➤ Internal chamber made up of stainless steel. ➤ European union (CE) or ISI approved. ➤ Voltage 220 to 240 V, 50 Hz single phase power supply. | 01 (One) Nos. |
| 14 | TEACHING MICROSCOPE WITH FIVE HEADS (PENTAHEAD) WITH CAMERA | <ul style="list-style-type: none"> ➤ Microscope for five observers. ➤ Vertical stage movement, high sensitivity fine focusing knob (minimum adjustment gradation of 1mm) ➤ Built in Koehler illumination for transmitted light, light present switch, light intensity LED indicator, built in filters ➤ 12 V, 100W halogen bulb (precentered) ➤ Revolving nosepiece) ➤ Wide field observation tube (eyepieces binocular) ➤ Objectives 4x to 100x (4x , 10x , 40x , 100x) with apochromatic / acromaticaplantic lenses ➤ Fluorescent illuminator and fluorescentlight source if possible ➤ Camera for research purposes approximately 15 megapixels for clear well defined microscopic image ➤ European union (CE) certification or US FDA or ISI approved | 01 (One) Nos. |

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| 15 | Slide Warming Table | For heating slides to a uniform temperature just below the melting point of wax to provide maximum flattening of the tissues without damaging the section. The top hot plate should be insulated from the rest of the frame. Should have temperature control from ambient to 70 ° C. There should be a depression on the top surface for a thermometer. Plate size approx 60 cm x15 cm. | 1 (One) For Forensic Medicine |
|----|---------------------|---|-------------------------------|

*The quantity is approximate and may vary at the time of placing orders.