

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

Hospital Open Tender – List of Items (Blood Bank)

Tender ID – 2017_BSAH_130983_9

S. No.	Name Of The Items	Specification If Any	Unit(s) require*
1	ELISA MICRO PLATE READER	<ul style="list-style-type: none"> ➤ Should be able to perform both qualitative and quantitative assay including definition of assay & validation. ➤ Should have storage capacity of 30 defined programme & 10 plates ➤ Bag raw OD data & calculated result can be transferred to an external PC or Printer ➤ Single / Dual / Multiple wave length measurement with 8 -12 channels. ➤ Programmable shake option prior to reading the plate ➤ Automatic light intensity control system ➤ Should have at least eight installable filters, OD range between .0-3.8. ➤ Reading speed less than 6-7 seconds per plate ➤ Automatic plate entering soft touch key board plus manual operation option also available for KB ➤ Reader must meet all specification to read all types of wells. Good quality (Indian/Imported) 	1 (One) Nos.
2	AUTOMATIC ELISA MICRO PLATE WASHER	<ul style="list-style-type: none"> ➤ Fully programmable to perform practice wash sequence for most modern plate based assays. 	1 (One) Nos.

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		<ul style="list-style-type: none"> ➤ Interchangeable heads – 8 & 12 way. ➤ Volume selection 200-350 µl in increment of ML. ➤ Flexible (Adjustable) time strip washing / plate washing ➤ Wide aspirate to reduce residual volume to < 1 µl per wells. ➤ Clean wash head profile to minimize carry over. ➤ There should be micro processor controlled soak time & wash volume. ➤ Hands off operation. ➤ Should have pro formed wash protocols. ➤ Should have accurate reproductive wash cycle. ➤ Should eliminate cross contamination. ➤ Auto cleavable manifold & plate carrier. ➤ Automated adjustment of top and bottom position. ➤ Standard accessories & other accessories should be available. Food quality (Indian/Imported) 	
3	WEIGHING MACHINE PORTABLE	<ul style="list-style-type: none"> ➤ Weighing machine (portable, digital display ➤ Elcetric battery operated capacity upto 150 kg). Good quality (indian) 	2 (Two) Nos.

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4	TIMER MACHINE FOR ELISA TEST (STOP WATCH) GOOD QUALITY (INDIAN)	<ul style="list-style-type: none"> ➤ Timer machine for elisa test (stop watch) good quality (indian) 	3 (Three) Nos.
5	PIPETOR FOR MICRO TYPING SYSTEM	<ul style="list-style-type: none"> ➤ Easy to use high precision pipette for ID-Micro typing System 	
6	PLASMA LOW HEMOGLOBIN METER	<ul style="list-style-type: none"> ➤ Plasma Low Hemoglobin meter for quality control of blood products. ➤ Specification: Based Upon azidementhemoglobin . ➤ Plastic molded Micro cuvettes principle. ➤ Dual wavelength measurement, 570 nm & 880 nm for turbidity compensation. ➤ Sample volume: 20 ul results should be displayed in one minute. ➤ Instrument reading: 0-3 g/dl. 	1 (One) Nos.
7	HYDROMETER TO MEASURE SPECIFIC GRAVITY	<ul style="list-style-type: none"> ➤ Hydrometer to measure specific gravity 	1 (One) Nos.
8	DIGITAL HEMOGLOBINO METER	<ul style="list-style-type: none"> ➤ Digital Hemoglobinometer based upon azidementhemoglobin. ➤ Plastic molded Micro cuvettes principle. ➤ Dual wavelength measurement, 570 nm & 880 nm for turbidity compensation. 	2 (Two) Nos.

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		<ul style="list-style-type: none"> ➤ Sample volume : 10 ul results should be displayed in 15 to 60 seconds. ➤ Instrument reading: 0-25.6 g/dl ➤ Battery operated – 4 AA Batteries (1.5V). ➤ USFDA Certified 	
9	ELECTRONIC BLOOD COLLECTION MIXER & SCALE	<p>Specification:</p> <ul style="list-style-type: none"> ➤ Microprocessor controlled Volume can be set from 1.0 ml. to 999 ml. ➤ Auto calibration. Audio visual alarm in case of any abnormal conditions. ➤ Auto tare facility to accurate for the weight of bag, Motor activated clamping at the end of collection. Large LCD display of weight, Volume, time taken for collection. ➤ Provision of pausing, collection and program change. 8 hrs. Battery back up for out station camp. ➤ Fitted in a portable wooden/ aluminum box for easy carrying for out station camps. 	1 (One) Nos.
10	PH METER	<ul style="list-style-type: none"> ➤ Range: 0 to 15 suitable for quality check in Blood Bank 	1(One) Nos.
11	AUTOMATED FINGER PRICKING DEVICE AND LANCETS	<ul style="list-style-type: none"> ➤ Automated finger pricking device and lancets using a spring mechanism for blood donors. 	1(One) Nos.
12	AUTOMATED COMPONENT PROCESSOR / SEPARATOR SYSTEM	<p><u>Automated Component processor</u></p> <p><u>(Technical Specifications)</u></p>	1(One) Nos.

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	<ol style="list-style-type: none">1. The equipment should be able to express the blood components, from primary bag into various satellite bags automatically after initial manual loading of the bag system on to the machine.2. The equipment must be compatible with any blood bag including top & top & top & bottom.3. The equipment should have built in weighing mechanism to measure the weight of various components separated (Plasma, Red Cells and platelets).4. At should give at least one log leucoreduction for red cells and platelets.5. The equipment should have an integrated system of sealing heads and optical sensors to automatically control the flow of various blood components (Plasma, platelets and red cells) in satellite tubings.6. The equipment should have a control panel with display system to indicate various procedural steps.7. Equipment should work without compressor, No need of compressor.8. The tube sealing should be of radio frequency type.9. The equipment should have the provision to store and transfer the blood component details including the identification number of the donor unit to a central facility.10. The equipment should have built in alarm system to indicate the completion of procedure.11. Electrical Supply-<ul style="list-style-type: none">• Voltage – 220 to 240 V AC• Frequency – 50/60 Hz• Compatible UPS, to complete the ongoing procedure, with a back up supply for at least half an hour, should be supplied with the equipment.	
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		<p>12. A computer should be supplied having seamless integration with equipment. Any other accessories for its interface with computer should also be supplied along with.</p> <p>13. Certifications:-</p> <ul style="list-style-type: none"> • Product certification : CE class II A or US FDA certified • Quality certification: ISO certified. • Electrical safety : Equipment meets Electrical safety Specification such as that of IEC (class I) 	
13	<p>PLASMA DEEP FREEZER (- 80 DEGREE C)</p>	<p><u>Technical Specifications</u></p> <ol style="list-style-type: none"> 1. Purpose of Equipment: To freeze and store plasma 2. Type of Equipment: Compression freezer with CFC-free refrigerant 3. Capacity: 800-900 plasma bags of 200 ml. each 4. Construction. <ul style="list-style-type: none"> • Internal: Stainless steel (min. 22g) (S.S. V2 A-1.4301) • External: Solid outer cabinet corrosion resistant (at least 1mm thickness) • CFC-free insulation • Design: Upright Type • Door: Solid door • Insulation and gasket should be silicone. • Separate inner doors to prevent cold loss. • Drawers: Roll out type • Heating device on frame to avoid condensation. 5. Electrical Characteristics: <ul style="list-style-type: none"> • Input voltage: 220/240V 50Hz 	1(One) Nos.

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	<ul style="list-style-type: none">• A line voltage corrector of appropriate rating should form part of configuration. <p>6. Minimum Compressor Starting Voltage: 22% below nominal Voltage</p> <p>7. Internal Temperature Control:</p> <ul style="list-style-type: none">• Electronic temperature control• Operating temperature reachable lowest up to -80°C with setting accuracy of \pm 1°C whatever the load• Fan air cooling• Automatic defrost within safe temperature range <ul style="list-style-type: none">• Casing & door should have insulation panel with polyurethane foam > 80mm thickness. <p>8. Refrigeration:</p> <ul style="list-style-type: none">• Heavy duty hermetically sealed compressor air cooled cascade refrigeration system, maintains inner temperature below -80°C• Refrigerant CFC free gas• Optional: Access port for CO2 backup system for refrigeration.• Option for duct from equipment to connect to common main duct to throw hot air out of the room. <p>9. External Ambient Temperature: Performs in an ambient temperature of +10 to +40°C</p> <p>10. Hold over time: 2 hrs at ambient temperature</p> <p>11. Temperature Monitoring:</p> <ul style="list-style-type: none">• Digital temperature (LED) display with 0.1 0C graduation• Temperature recording device	
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	<ul style="list-style-type: none">• Microprocessor control for operation with integrated audio visual temperature alarm function with digital monitoring display. There should be a method to check alarm system. • Seven days inkless graphic temperature recorder with range of 0°C to -80°C with data logger, with supply of free charts for a period of warranty. • Battery backup for alarm and temperature recording device. • Mounted on Lockable Castor wheels • Alarm history: Temperature maximum and minimum, average temperature during alarm period, time of duration of alarm. • Desirable:<ul style="list-style-type: none">○ Noise factor should not exceed 60 decibels. ○ Should have compressor running time < 60 to 70% <p>12. Additional Requirement</p> <ul style="list-style-type: none">• All equipments should specify Design qualifications, installation qualifications, Operational Qualifications and Performance qualifications. Validation and calibration reports should have traceability towards applicable national / international standards. • Complete with comprehensive set of spare parts including a spare compressor, refrigerant gas cylinder etc. and a suitable capacity voltage stabilizer. The make, rating model, description, specifications, price, and quantity of each item shall be furnished separately. • Necessary catalogues, technical write up in English shall be attached with the offer both in hard and soft copies. • Performance, efficiency, other factors such as distortion etc. as applicable be also furnished
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		<ul style="list-style-type: none"> • Complete construction, details in respect of material specification, thickness, finish etc. are to be furnished. • Certifications: <ul style="list-style-type: none"> ○ Product certification: CE Class II A or US FDA certified ○ Quality Certification: ISO Certified ○ Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I) 	
14	REFRIGERATED CENTRIFUGE	<ul style="list-style-type: none"> ➤ For separation of blood components like packed cells, platelet rich plasma, platelet concentrate, plasma. ➤ Micro processor controlled system to make operation automatic. ➤ Programmable memory: memory with temper proof facility. <p>Stainless steel chamber:</p> <ul style="list-style-type: none"> ➤ Easy to clean, corrosion resistant with provision of both drain and condensed water collection container. ➤ CFC free refrigerant. ➤ Swing bucket blood bank rotor: with metal buckets, 6X2000 ml, wind shielded, Suitable adapters for 12 blood bags of 350 ml & 450 ml. ➤ Removable plastic cups to hold single/double/triple/quadruple blood bags with partition in every bucket. ➤ Insert with hook adapter to spin buffy coat or small volume of blood and balancing weights for inserts. ➤ Equipped with automatic lid lock. ➤ Centrifugal force: 5000-6000 g. ➤ Speed variation: Micro processor controlled rotor speed to within 10 rpm of set value. 	1(One) Nos.

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		<ul style="list-style-type: none"> ➤ Acceleration & deceleration profiles shall be available. ➤ Temperature range -10 C to + 40 C. ➤ Micro processor controlled rotor temperature within 1 C of set temperature regardless of the centrifuge speed. ➤ Programmable time: 0-99 minutes with minimum resolution of 1 min. ➤ Digital display of temperature, speed and time. Minimum no. of 3 digit resolution. ➤ Motor imbalance detection: Automatic shut down of centrifuge if rotor load is out of balance with appropriate indicator, should incorporate alarms for imbalance detection lid interlock, over temperature, rotor over speed. Power requirement: 220/240 volts, 50 Hz single phase AC supply. ➤ The equipment shall be suitable for operation from 0 to 40 C at 90 % relative humidity. Electronic circuitry shall be tropicalised for this ambient condition. ➤ Noise levels within 60 decibels. 	
15	ID Gel card Centrifuge	<ul style="list-style-type: none"> ➤ Manual ID-Card centrifuge should able to perform centrifugation of all the tests for Cross Matching on coombs and enzyme phase to pick both IgG & IgM Antibodies, Blood Grouping based on Sephadex gel technology. ➤ Centrifuge head should accommodate minimum 24 ID Cards having V-shape tubes. ➤ Centrifuge should be microprocessor controlled. ➤ Speed should be 910 ± 5rpm ➤ RCF (Relative centrifugal force) should be 85 ± 1g. ➤ Equipment should have automatic balance control of the centrifuge head. 	1(One) Nos.

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		<p>Power/Frequency- 110V-240V/ 50-60Hz.</p> <ul style="list-style-type: none"> ➤ Centrifuging time should be prefixed for 10 minutes. ➤ CE complaint according to IVD Directive 98/79/EC 	
16	DI ELECTRIC TUBE SEALER TABLE TOP	<ul style="list-style-type: none"> ➤ Should be heavy duty, bench top tube sealer, should work on compressed air technology ➤ Sealing time should not be > 2 sec. ➤ Sealing triggering should be automatic with sensor. ➤ Should have indicator lamps for : <ul style="list-style-type: none"> ☞ System is ready to seal. ☞ Sealing is going on. ☞ Indication of power on. ☞ Good quality (Indian/Imported) 	1(One) Nos.
17	DONOR COUCH	<ul style="list-style-type: none"> ➤ three part seamless Bed to be controlled by a foot pedal & push button panel. ➤ Should have four 24, volts electric actuators which should adjust the trendenburg ➤ Should have length between 68-72 cm and width 62-64 cm. ➤ Net weight should not be more than 60-65 kgs ➤ Should have armrest for donor comfort ➤ Weight capacity 600 lbs ➤ Space for keeping BCM ➤ Highly compact & space saving lounge ➤ Good quality (Indian/Imported) 	1(One) Nos.
18	STERILE CONNECTING DEVICE	<p><u>Technical Specifications</u></p> <ol style="list-style-type: none"> 1. Should accommodate and weld all types of blood bag tubing in use in our country. 2. The welding should be seamless. 3. Should be capable of joining wet-wet/wet-Dry/Dry-Dry tubes. 	1(One) Nos.

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		<p>4. Welding should not affect the quality of the tube in terms of its physical and chemical properties and it should not cause hemolysis.</p> <p>5. It should have LED indicators to display the actual status of the ongoing procedural steps and audio-visual alarm system for any functional irregularities.</p> <p>6. The welding accessories should be available with the local agent throughout year.</p> <p>7. The consumable wafer cost per 100 pieces to be taken into account during price evaluation.</p> <p>8. Compatible UPS with half an hour backup.</p> <p>9. Power supply 220V, 50 Hz AC.</p> <p>10. Certification:</p> <ul style="list-style-type: none"> • Product certification: CE Class II A or US FDA certified • Quality Certification: ISO certified • Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I) 	
19	THREE PART DIFFERENTIAL HEMATOLOGY ANALYSER (3-PART DIFFERENTIAL)	<p><u>Specifications of three part differential Hematology Analyser (3-part differential)</u></p> <p>1. The instrument should be fully automated three part differential, minimum 18 parameter hematology analyzer offering automatic start up, shut down and sample analysis.</p> <p>2. The instrument should be able to report following 18 parameters: WBC,RBC, Hb, HCT, MCV, MCH,MCHC,RDW-SD or CV,PLT,NEUT%,LYMPH%,MIX%,MIX#,NEUT#,PDW,MPV,P-LCR with histogram for WBC,RBC and platelets.</p> <p>3. The instrument should have throughput of at least 60 samples/ hour.</p>	1 (One) Nos.

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		<p>4. The instrument should have multichannel analysis for better resolution</p> <p>5. The instrument should have impedance method for RBC/Platelets/WBC counting</p> <p>6. The instrument should have cyanide free colorimetric method for hemoglobin measurement</p> <p>7. It should have big coloured display with touch screen operation. It should have facility to attach external keyboard for operation.</p> <p>8. The instrument should have inbuilt printing facility and facility to attach external printer for reports printouts.</p> <p>9. It should have facility to enter patient ID and name.</p> <p>10. Should have facility to store patient results with histograms and QC control data.</p> <p>11. Operating temperature should be 18-32^oC (64-90^oF), Humidity up to 80%</p> <p>12. The instrument should have internal quality control support</p> <p>13. The instrument should be CE marked/US FDA approved</p> <p>14. Online UPS System must be provided.</p> <p>15. The company should have an installation base in India and should be able to provide the relevant product and service support and should have atleast 5 years of presence in India preferably Delhi (NCT), with ready availability of system and reagents for quoted instruments.</p> <p>16. Price bids should also include cost of reagents with validity for at least 2 years.</p>	
20	GSM Compatible Temperature Recorder (-40 DEGREE C to 30 DEGREE C)	<u>Specifications of GSM Compatible Temperature Recorder (-40^oC to 30^oC)</u>	8 (Eight) Nos.

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		<p>GSM compatible temperature Recorder with Remote Advice Capability to inform alarm situations, temperature deviation in Blood Bank Laboratory Refrigerator Deep Freezers & Incubator.</p> <p>1. Temperature Range: -40°C to 30°C, minute to minute Temperature recording with memory of at least 7 Days readings & compatible with all type of computers for database storage, Printing and retrieval.</p>	
21	GSM Compatible Temperature Recorder (-85°C to 10°C)	<p>Specifications of GSM Compatible Temperature Recorder (-85°C to 10°C)</p> <p>GSM compatible temperature Recorder with Remote Advice Capability to inform alarm situations, temperature deviation in Blood Bank Laboratory Refrigerator Deep Freezers & Incubator.</p> <p>1. Temperature Range: -85°C to 10°C, minute to minute Temperature recording with memory of at least 7 Days readings & compatible with all type of computers for database storage, Printing and retrieval.</p>	1 (One) Nos.

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