

#	Item Name	Description	Quantity	Unit
لات پنجم بخش تجهیزات طبی لابراتوار (Medical Lab Equipment's)				
1	CBC Machin	Product Specification Model : MEDONIC M32 or equivalent Differential Type 3-Part Type of Blood Analyzer WBC Differential System Operation Mode Semi-Automatic, Manual, Automatic Number of Chambers 2 Sample Mode Whole Blood, Pre-Diluted Method Electrical Impedance CPT (Rs.) 10 Throughput 60 samples/hr No. of Reagents Used 2 Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years	20	Piece
2	Safety bacterial cabinet or Biological Safety Cabinets	Biological Safety Cabinets /Different classes class I/II 100gradient in the front panel reserve timer for 30 min, motor, front panel alarm device, heap filter efficiency 99.99% Completely with petri dish and Anti bigrams desks power capacity200-250 v-50-60 Hz with .or equivalent Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years	7	Piece
3	Blood Mixer	Model No. KJMR-IV or equivalent >Rolling Speed:12-32 rpm >Tube Qty per:1-15 pc >Tube diameter:Φ13±0.1mm >Working Disc Diameter: Φ220mm >Angle of Inclination: 38° >Voltage: AC220V±10% (50/60Hz) >Power Consumption: 6w >Working System: continues >Safety Category: I series B type common device	30	Piece
4	Autoclave machine for lab	model 102: or equivalent 200 Liter valium Up to 133 C G capacity 200-250 v -50-100 Hz power – specify by SACURA-he Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years	7	Piece

5	Enzyme Immunoassay Analyzer	<p>Method Fluorescence Enzyme Immunoassay Detection LED illuminant, non-flow cell/TOP-TOP photometry method Throughput 36 tests per hour Reaction time Antigen antibody reaction: 10 minutes Sample loading Capacity 25 samples maximum Reagent loading Capacity 25 tests maximum Test for each sample 4 tests per sample Sampling Fixed Probe with Clot detection function Sample Vessel Primary Tube 13 x 75/100mm, 16 x 75/100mm (diameter x length) 2 mL sample cup Barcode Code39, Code128, ITF, NW-7 and JAN Interface RS232C Size/Weight 16(W) x 16(D) x 21(H) Inches / 61 lbs. 400(W) x 400(D) x 520 (H) mm / 29 kg Power source AC100-240V. 50/60Hz 250VA Environment Temperature: 15-30° C, Relative Humidity 40-80% or equivalent Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years</p>	7	Piece
6	A B G machine	<p>SPECIFICATIONS OF BLOOD GAS ANALYSER (ABG MACHINE)1. Fully automatic, upgradeable, fast electrolyte & blood gas analyzer.2. Essential Measured parameters; pH, pCO₂, pO₂, Hematocrit Lactate, glucose, Na⁺, K⁺, Ca⁺⁺. All these parameters should be measuredsimultaneously3.Calculated parameters should include Hemoglobin –cHgb, actual bicarbonate –cHCO₂, total Carbon Dioxide –cTCO₃, base excess of extra cellular fluid. -BE(ecf), base excess in Blood --BE(b), Oxygen Saturation –cSO₂. 4.Sample volume - less than 100 micro litre.5.Fast analysis time –less than 60 sec.6.Fully automatic test card technology – rectangular shape with built in gold plated electrodes and concealed calibrated fluids lines with micro technology for fluid movement.7.Data display should be on well-illuminated, adequate size screen display.8.Power Supply Using Rechargeable battery (lithium ion battery)9.Back up of 6 hours with Rechargeable battery.10.Connectivity –Via Blue tooth and WiFi for HIS and LIS .11.Data Storage for atleast 1000 patients.12.Calibration –Auto Calibration before every sample is inserted.13.Operating the machine-User Friendly Touch Screen.14.Ambient working temperature –15 to 30 Degrees.15.Test cards Storage –At Room Temperature16.Upgradeable to future parameters like Cl⁻, Creatinine on the same card.17.System should come along with a Windows based Personal Digital Assistant to control the entire system & printer.18.Stand by blood gas cum electrolyte analyzer in case of breakdown.19.Should have local service facility20.Should supply test cards for 3 years(1000 cards/year)in a staggered manner as per expiry date of test card.21. <i>Warranty for 1 years</i> Note: Installation & Basic Operation Training is Supplier responsibility</p>	28	Piece
7	Biochemistry Full Automatic analyzer	<p>-1] Fullyautomated random access chemistry analyzer bench top with stat sample priority. 2] Through put of 180-200 photometrictests/hour, 200-270ISEtest/ hour.3] Bar code system for detection of sample IDand reagent.4] 40positions for samples and 40 reagents position with onboard coolingfor reagent. 5] Sample volume 2-35 l(0.1increments) andreagent volume of 20-400 l.6] Separate pipette for reagent and sample.7] Pre-dilution and automatic re-assay with diluted sample / reduced/ increased sample volume should bethere.8] Continuous sampleloadingprovision.9] Serumplasma, urine, CSF and supernants can be processed in the machine.10] Sample pipette withliquid level sensor and</p>	10	Piece

		<p>crash protection, rinsed from inside and outside.11] Reagent inventory and calculation of remaining reagent volume and test should be available.12] Reaction temperature 37OC±0.3.13] Light source- Halogen tungsten lamp.14] Calibration principle should be linear, factor, 2 point, point to point, spline, log-logit and exponential.15] Assay test -End point, Kinetic, Biochromatic, turbid metric, sample blanking and reagent blanking and ISE (Via optional integrated ISE unit).16] Reusable Pyrex cuvette with minimum volume of 180l, maximum volume of 500l with 8 stage cuvette washing system.17] Inbuilt automatic QC and automatic calibration. Daily, monthly batch QC with data archiving.18] Complete PC along with easy to operate software should be provided with the analyzer with the storage of >20,000 patients report with search facility.19] Input voltage –100 to 240 Vac. 20] Power consumption < 700w.21] or equivalent.</p> <p>Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years</p>		
8	Semi chemistry analyzer	<p>Model: BA-88A Semi Auto Chemistry Analyzer (Micro Lab) mindray or equivalent.</p> <p>Features:</p> <ul style="list-style-type: none"> . 7.0" TFT touch-screen & pop-up keypad . Two test mode: flow cell or cuvette . Supports bi-chromatic tests for end point, fixed-time, kinetics methods . External keyboard or mouse support via USB . User-friendly interface and multi-language operation software . Built-in thermal printer <p>Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years</p>	2	Piece
9	Hematology analyzer	<p>BC -3000 Plus Auto Hematology Analyzer or equivalent</p> <p>BC-3000Plus is an analyzer for the mainstream laboratory that prioritizes quality results. Equipped with a large, color LCD Display, built-in thermal printer and huge storage capacity, our user-friendly hematology analyzer brings the convenience and accuracy of the reference laboratory right into your practice, offering maximum value with low running costs</p> <ul style="list-style-type: none"> * 3-part differentiation of WBC, 19 parameters+ 3 histograms. * 2 counting modes: whole blood and prediluted. * 60 samples per hour. * UP to 35000 sample results (including histograms) can be stored. * Large color LCD display. <p>Note: Installation & Basic Operation Training is Supplier responsibility Warranty for 1 years</p>	3	Piece

