



Directorate of Biomedical Engineering Technical Specifications for Laboratory Equipments

Class No.: (**Item Description:** Tube Mixer) **Qty.** (7) **Item no.** (1)

No.	Technical Specifications	Min MOH Requirement	Bidder Offer
1	Manufacturer	Please specify manufacturer and country of origin	
2	Model Number	Please specify model number of the offered equipment	
3	Safety Standard	FDA approval or CE marking	
4	Application	For hematology	
5	Design	 Roller Removable side panels (preferable) Simultaneous rolling and tilting motion 	
6	Number of Rollers	4 – 6 rollers	
7	Variable Speed	5 to 60rpm	
8	Display	LCD or LED for speed and time	
9	Timer	One second to 30minContinuous operation	
10	Power Supply	220V / 50Hz	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field





Directorate of Biomedical Engineering Technical Specifications for Laboratory Equipments

Item Description: Dry Bath Class No. : ()

Item no. (2) Qty. (5)

No.	Technical Specifications	Min MOH Requirement	Bidder Offer
1	Manufacturer	Please specify manufacturer and country of origin	
2	Model Number	Please specify model number of the offered equipment	
3	Safety standard	FDA approval or CE marking	
4	Construction	Powder-coated steel body and easy cleaning and disinfectingHeat insulator	
5	Application	 Sample preparation Enzyme preservation Enzyme substrate reactions DNA amplification 	
6	Display	LCD or LED for time and temperature	
7	Timer	From 1 to 99min or continuous	
8	Temperature Range	Ambient + 5°c to 99°c or better	
9	Temperature Accuracy	± 0.3 °c or better	
10	Calibration	Automatic calibration for temperature	
11	Heating Up Time	≤ 25min for maximum temperature	
12	Blocks	 All blocks are made from aluminum alloy and easy cleaning and disinfecting Four blocks 0.2 mL, 0.5 mL, 15 mL and 50 mL 	
13	Temperature Probe	Included	
14	Safety	Over temperature protectionHigh current protectionAgainst electric shock protection	
15	Power Supply	220V / 50Hz	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

م. صحى الربايعة م. صحى عين الباشا م. صحى الكرامة م. صحى الديسة الأولى م. صحى شفا بدر ان: Equipment Distribution





Class No.: (10-778)

Directorate of Biomedical Engineering Technical Specifications

Item Description: Tube Centrifuge Type (A)

Item no. (3) Qty. (8)

No	Technical Specifications	Min MOH Requirement	Bidder Offer
1	Manufacturer	Please specify manufacturer ,country of origin and country of manufacturer	
2	Model Number	Please specify model number	
3	Safety Standard	FDA approval or CE marking	
4	Design	 Bench top Heavy duty Microprocessor control Brushless motor (inverter preferred) Motorized (powered) lid locking device Tachometer view port Automatic rotor verification(recognition) Stainless steel rotor chamber 	
5	Programs	Not less than 10 programs	
6	Display	LCD for speed, time and program number	
7	Timer	 Digital Duration from 10s or better to 99min Timer set steps 10s or better Short time operation mode-hold 	
8	Visual Indicators	 Speed Lid open Start / stop Quick (short) run 	
9	Audible Signal	Sound at end of operationRotor error	
10	Noise Level	≤ 60 dB at maximum speed	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

Equipment Distribution Locations:

م.صحي الربايعة,م.صحي عين الباشا ,م.صحي الكرامة ,م.صحي الديسة الأولي ,م.صحي شفا بدران ,م.صحي النصر, مركز صحي النرهة م.صحى مؤية

Cont ... Tube centrifuge type (A)

No	Technical Specifications	Min MOH Requirement	Bidder Offer
11	Rotor	 4 place swing out (Please specify rotor structure) 90° angle Adjustable speed from 500rpm or better to 4000rpm Speed set steps 100rpm or better Max acceleration / deceleration time 40s or better 16 tubes per rotor Set of 4 bucket 4 places in insert (carrier, adapter) 10 ml tube capacity Blood collection tube type (vacutainer) Tube dimensions 16 diameter x (100 – 110) length 	
12	Safety	 Emergency lid release Imbalance switch-off Lid locking and holding during rotor run Motor over heating protection Rotor over speed protection Self-diagnostics check (system check) 	
13	Power Supply	220 V / 50 Hz	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

Equipment Distribution Locations:

Equipment Distribution Locations:
م.صحي الربايعة,م.صحي عين الباشا,م.صحي الكرامة,م.صحي الديسة الأولي,م.صحي شفا بدران,م.صحي النصر, مركز صحي النزهة,م.صحي مؤتة





Directorate of Biomedical Engineering Technical Specifications

Item Description: Heamatocrit Centrifuge Class No. : (18-270)

Item No :(4) QTY :(4)

No	Technical Specifications	Min MOH Requirement	Bidder offer
1	Manufacturer	Please specify manufacturer and country of origin	
2	Model Number	Please specify model number	
3	Safety standard	FDA approval or CE marking	
4	Design	 Bench top Heavy duty Microprocessor control Brushless motor Motorized (powered) lid locking device Tachometer view port Automatic rotor verification (recognition) Stainless steel rotor chamber 	
5	Programs	Not less than 10 programs	
6	Display	LCD for speed, time and program number	
7	Timer	DigitalDuration from 1 or better to 99 minTimer set steps 1 min or betterShort time operation mode-hold	
8	Visual Indicators	Rpm/rcfLid openStart / stopQuick (short) run	
9	Audible signal	Sound at end of operationRotor error	

q Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

Equipment Distribution Locations: م.صحي الربايعة,م.صحي شفا بدران, مركز صحي النزهة, م.صحي مؤتة

Cont Heamatocrit Centrifuge

10	Noise level	≤ 60 db(A) at max speed
11	Rotor	 - 24 place heamatocrit rotor with reader - 90° angle - Please specify rotor structure - Adjustable speed from 300 or better to 13000 in rpm - Speed set steps 100 in rpm or better - Max accel / decel time 40 s or better - 24 standard heamatocrit capillaries per rotor (each capillary in the individual segment)
12	Safety	 Emergency lid release Imbalance switch-off Lid locking and holding during rotor run Motor over heating protection Rotor over speed protection Self diagnostics check (system check)
13	Power supply	220 V / 50 Hz

$_{\boldsymbol{q}}$ Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

Equipment Distribution Locations: م.صحي الربايعة,م.صحي شفا بدر ان, مركز صحي النزهة, م.صحي مؤتة



Item Description: Microscope

Ministry of Health Directorate of Biomedical Engineering



Class No. (12-536)

Technical Specifications For Laboratory Equipments

Qty. (5) **Item no. (5)**

No.	Technical Specifications	Min MOH Requirement	Bidder Offer
1	Manufacturer	Please specify manufacturer and country of origin	
2	Model Number	Please specify model number of the offered equipment	
3	Safety Standard	FDA approval or CE marking	
4	Optical System	Infinite corrected system	
5	Nosepiece	Quintuple revolving nosepiece	
6	Eye Pieces (Two)	Extra wide field eyepiece EW 10X /20mm	
7	Head Observation Tubes	Binocular, 30° inclined, 360° rotating	
8	Objectives	Infinite corrected plane achromatic objectives X4, X10, X40, X100 (oil)	
9	Condenser	Swing condenser, suitable for above objectives	
10	Observation Mode	Bright field	
11	Stage	Large sized double layer mechanical specimen stage	
12	Focusing	Coaxial coarse (adjustable tension) and fine focusing mechanism	
13	Light Source	LED	
14	All Standard Accessories	Should supplied with dust cover, immersion oil, green filter and blue filter	
15	Power Supply	Built in 220V / 50Hz	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

Equipment Distribution Locations:

م.صحي الربايعة,م.صحي عين الباشا ,م.صحي الكرامة ,م.صحي الديسة الأولي, مركز صحي الُنزُهة





Directorate of Biomedical Engineering Technical Specifications

Item Description: SPECTROPHOTOMETER Item No :(6)

Class No. (15-601)

QTY:(5)

No.	Technical Specifications	Min MOH Requirement	Bidder offer
1.	Manufacturer	Please specify manufacturer and country of origin	
2.	Model Number	Please specify model number of the offered equipment	
3.	Safety standard	FDA approval or CE marking	
4.	Configuration	Single beam	
5.	Lamp type	Accepted types: Halogen or LED	
6.	Wavelength range	340 - 600 nm or better	
7.	Wavelength accuracy	±1 nm	
8.	Control	Microprocessor control	
9.	Display	Digital display	
10.	Sample Intake	Through cell	
11.	Printer	Built in	
12.	Temperature controller	Built in	
13.	Interface	RS232	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

220 V / 50 Hz

Equipment Distribution Locations:

م.صحي الكرامة, م.صحي الديسة الأولي, م.صحي الربايعة, م.صحي مؤتة (2)

Power supply

14.





Directorate of Biomedical Engineering Technical Specifications for Blood Bank Equipments

Item Description: Portable Blood Drawing ChairClass No.: (Item No:(7)QTY:(6)

No	Technical Specifications	Min MOH Requirement	Bidder Offer
1.	Manufacturer	Please specify manufacturer and country of origin	
2.	Model Number	Please specify model number of the offered equipment	
3.	Safety standard	FDA approval or CE marking	
4.	Туре	Foldable drawing chairMovable Type	
5.	Frame construction	Made of high Quality steel with high Quality finishing	
6.	Armrest	Full length in both sides	
7.	Armrest adjustment	Horizontal and vertical	
8.	Flip-arm Position for easy exit	Included	
9.	Fabric	Medical grade stain resistant leather & washable	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

Equipment Distribution Locations: م.صحي الربايعة,م.صحي الكرامة, م.صحي الديسة الأولي م.صحي شفا بدران,م.صحي النصر,م.صحي النزهة





Directorate of Biomedical Engineering Technical Specifications

Item Description: Laboratory Incubator (Small Size) Class No.: (18-013)

Item No :(8) QTY :(1)

No.	Technical Specifications	Min MOH Requirement	Bidder offer
1	Manufacturer	Please specify manufacturer and country of origin	
2	Model Number	Please specify model number of the offered equipment	
3	Safety standard	FDA approval or CE marking	
4	Design	 Compact design Stainless steel housing Low noise during operation Pre heated fresh air Adjustable fan speed Interior lighting Mounted on lockable castors 	
5	Control	Microprocessor controlled	
6	Temperature Range	Ambient to 80°c or better	
7	Temperature Accuracy	±0.2°c or better	
8	Interior Chamber	 Approx. 55L All metal inside should be stainless steel Two adjustable stainless steel shelves 	
9	Double Doors	Inner glass doorExterior stainless steel and multi-layer insulated	
10	Display	LCD	
11	Timer	Programmable	
12	Indicators	Power onHeater on	
13	Alarm	Power failureOver temperature	
14	Safety	 Over temperature protection Over currant protection Automatic cut off of heater when door opened 	
15	Interfaces	USB	
16	Power Supply	220V / 50Hz	

Note: Bidder must answer with YES or NO in the "BIDDERS OFFER" Field

م.صحي عين الباشا:Equipment Distribution Locations