

Technical Specifications

Item No.	Description	Unit	Quantity	Statement of Compliance
1	<p>Lot 1- General Laboratory Equipment consisting of the ff:</p> <p>Multitester pH Meter (waterproof water quality meter)</p> <p>*One meter for multi-purpose operation: PH/ORP, CD/TDS, Dissolved Oxygen, Salt measurement</p> <p>pH: 0 to 14.00 pH, ORP: ±1999 mV</p> <p>Conductivity: 200 uS/2 mS/20 mS/200 mS</p> <p>Dissolved Oxygen: 0 to 20.0 mg/L</p> <p>Salt: 0 to 12% salt (% weight)</p> <p>Optional pH, ORP, CD/TDS/Salt, Dissolved Oxygen and ATC probe</p> <p>DC 1.5V (UM-3, AA) x 6 pcs or DC 9V adapter in</p> <p>pH meter function can select pH or ORP</p> <p>Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college.</p> <p>SD Card capacity: 1 GB to 16 GB</p> <p>LCD with green backlight, easy reading</p> <p>Can default auto power off or manual power off</p> <p>Data hold, record max and min reading</p> <p>Microcomputer circuit, high accuracy</p> <p>Power by UM3/AA (1.5V) x 6 batteries or DC 9V adapter</p>	unit	1	
2	<p>Digital Weighing Scale/Analytical Balance</p> <p>Capacity: 0-100 grams</p> <p>Reading accuracy: 0.0001g</p> <p>Optional function: auto internal calibration</p> <p>Reproducibility error: 0.0001g</p> <p>Linearity error: 0.0002g</p> <p>Taring range: 0-15000Lx (six steps adjustable)</p>	unit	1	
3	<p>Hot Plate Stirrers</p> <p>Material: ceramic</p> <p>Dimension: 10" x 10"</p> <p>Temp. range: 5-550°C</p>	unit	2	
4	<p>Hot Plate without Stirrer</p> <p>Material: ceramic</p> <p>Dimension: 10" x 10"</p> <p>Temp. range: 5-550°C</p>	unit	2	

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Item No.	Description	Unit	Quantity	Statement of Compliance
5	<p>Lot 1- General Laboratory Equipment (continuation):</p> <p>Drying Oven</p> <p>Capacity: 70L</p>	unit	2	

	Temperature range: RT +5 - 250°C Temperature resolution: 0.1°C Temperature fluctuation: ±0.5°C (100°C) Temperature uniformity: ±0.1°C (100°C) Power: 550W Working chamber (mm): W350 x D350 x H350 Overall size (mm): W640 x D485 x H545 Shelves: 4 pieces Time range: 0-99 H 60min Power Supply: AC220V ±10%/50Hz ± 2%			
6	Autoclave Max. working/Design Temp.: 126°C/128°C Max. working/Design Pressure: 0.145MPa/0.165MPa Reproducibility Error: 0.0001g Time Range (min): 0-120 Chamber size (mm): 400 x 520 / 300 x 400 Volume: 30L Basket size (mm): 280 x 360 x 1 pc Overall size (mm): W404 x D404 x H810	unit	1	
7	Analytical Balance Capacity: 420 grams Readability: 0.1mg	unit	2	
8	Top Loading Balance (digital) Capacity: 2000g Accuracy ±0.1g Readability 0.1g	unit	2	
9	pH Meter (Bench Top) Range: 0-14.00 Resolution: 0.01pH Accuracy: ±0.01pH Calibration: 3 pt calibration	unit	1	

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Item No.	Description	Unit	Quantity	Statement of Compliance
	Lot 1- General Laboratory Equipment (continuation):			
10	pH Meter (Hand held) Range: 0-14.00 Calibration: 3 pt calibration	unit	1	
11	Water Distiller Flow rate: 12L/hour @ 15° With pretreatment unit	unit	1	
12	Compound Microscope Illumination: Built-in transmitted Koehler illuminator 6V 30W LED bulb , 100-200V/220-240V ~0.85/0.45A 50/60Hz Focusing: Stage height movement by roller guide, 36.8 mm stroke per	unit	1	

	rotation, 25 mm full stroke range, tension adjustment on coarse focus adjustment knob, upper limit stopper Observation tube: binocular Nosepiece: Fixed quintuple with inward tilt Stage: Size---188 (w) x 134 (y) mm Travelling range ---76 mm (x) x 50 mm (y) Specimen holder: double slide holder			
13	Fumehood Brand New Size: 47 inches Blower size: 1/3 hp motor with electrical outlet with cabinet	unit	1	
14	Incubator Temp range: $\pm 5^{\circ}$ to 60°C Small capacity CO2 incubator With tank Capacity: 1.4 cu ft. Accuracy: $\pm 0.1\text{C}$	unit	1	

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Statement of
Compliance

Item No.	Description	Unit	Quantity	Statement of Compliance
15	Lot 1- General Laboratory Equipment (continuation): Laboratory Incubator 12 cu ft External Dimensions: 550x550x535 (HxWxD) Internal: 420x400x360 Capacity: 50L Shelves: 1 perforated stainless steel Weight: 30 kg Packed Weight: 38 kg Timer range: 1 min to 99h 59m or continuous Temperature range: Ambient $+5^{\circ}\text{C}$ - 100°C continuous Temporal variation (tolerance): $\pm 0.1^{\circ}\text{C}$ Spatial variation (uniformity): $\pm 0.2^{\circ}\text{C}$ Control System: microprocessor-based digital system Automatic/Manual safety: 2.0°C above and below set point User-adjustable high limit: Safety fuse Power requirements: 230Vac 50Hz 350W	unit	1	
16	Biological Safety Cabinet Class II/vertical clean bench Large LCD display. You can find all the information on screen. Remote control. Every function can be realized 6 meters away from the cabinet by remote control. Motorized front window. Time reserve function.	unit	1	

<p>Negative pressure plenum surrounds contaminated positive pressure plenum. Digital display of air pressure, air velocity and temperature etc Voice prompt function. External size (WxDxH): 1380x750x2290mm Internal size: 1220x600x660mm Work surface height: 750mm Maximum opening: 400 mm Tested opening: safety height <200mm Inflow velocity: 0.53±0.025m/s Downflow velocity: 0.33±0.025m/s HEPA filter: two, 99.999% efficiency at 0.3um Noise: EN 12469<58dB/NSF49<62dB Fluorescent lamp: 40W*1 Illumination: >1000Lux Material: Work Zone: 304 stainless steel Main body: cold-rolled steel with anti-bacterial powder coating Water and gas tap: Water tap *1, Gs tap*1 Motor: One ECM motor Speed adjustable, high efficiency and low power consumption, 100v and 220v acceptable</p>			
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Statement of

Item No.	Description	Unit	Quantity	Statement of Compliance
16	<p>Lot 1- General Laboratory Equipment (continuation): Biological Safety Cabinet Class II/vertical clean bench (continuation of specifications) Front window: motorized. Two-layer laminated toughened glass >5mm Display: LCD display UV Lamp: 30W*1 Water proof socket: two, total consumption: 500W Control system: Microprocessor Airflow system: 70% air recirculation, 30% air exhaust Caster wheel: universal wheel with brake and leveling feet Consumption: 600W Power supply: 110/220V ±10%, 50/60Hz Standard Accessory: remote control, foot switch, UV lamp*2, fluorescent lamp, base stand, drain valve, waterproof sockets Gross weight: 310 kg Package size: (WxDxH): 1515x870x1950mm</p>			
	Lot 2 - NO changes for this lot.			
	Lot 3- Centrifuge and Spectrophotometers			
1	<p>Bench Top Centrifuge Timer: 0-30min Max: RCF xg 1350 Capacity: 8x3 to 15mL tubes</p>	unit	2	
2	<p>Refrigerated Centrifuge Temp range: -10 to 40°C Max capacity: 50mL x 6 Speed: 18,000rpm</p>	unit	1	
3	<p>Spectrophotometer (visible range) Double beam</p>	unit	1	

4	Visible spectrum only (325-1000nm) Microplate 96 Well Elisa Reader 400-700 spectral range Measuring range: 0-2.5 OOD Detector: 8 solid state detector Calculation: A, [], multistandard curves Built-in printer	unit	1	
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Item No.	Description	Unit	Quantity	Statement of Compliance
5	Lot 3- Centrifuge and Spectrophotometers (continuation): Spectrophotometer Microtiter Plate Reader Physical characteristics: Connectivity: RS232 port Power: 100-240 volts AC 50/60 Hz Dimensions: 8.5"Wx16"Dx8.5"H Weight: 24 lbs (11 kg) General: Detection modes: absorbance Read methods: End, Point, Spectral, Linear Scanning Microplate types 96- and 384-well plates Temperature control 4 Zone mt Incubation: Ambient +4°C to 50°C; Variation ±0.2°C at 37°C Shaking: Linear Software: Gentm Data Analysis Software Automation biostack and 3rd Party automation compatible Absorbance: Light source: Xenon flash Wavelength selection: monochromator; selectable 1 nm or greater increments Wavelength range: 200 to 999nm Bandwidth: 5nm Dynamic range: 0-4.0 OD Resolution: 0.001 OD Monochromator wavelength accuracy: ±nm Monochromator wavelength repeatability: ±nm OC accuracy: 1% ±0.01 OD OD linearity: ±1% OD repeatability: 0.5% ±0.005 OD Stray light: 0.03% at 230nm Reading speed: 96 wells: 5 seconds,,384 wells: 11 seconds	unit	1	

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Item No.	Description	Unit	Quantity	Statement of Compliance
6	Lot 3- Centrifuge and Spectrophotometers (continuation): Multifuge XLR Refrigerated Centrifuge Temperature range: -10 to 40°C Max RCF x g: 25,830 Power: 230VAC, 60Hz RPM: ≥24,000 RPM Display: LCD display of temp, RPM, time and rotor used Operating mode: RPM or RCF and or weight Variable run time: Timer setup for long run and also set time in hours and minutes with Alarm at completion Capacity: Multi-purpose rotors: centrifugation rotors for different volume tubes: 1.5/2.0ml; 15ml; 50ml Suitable tubes required for the rotors (200 each set) System with auto lock facility, with safety for over speed/imbalance/temperature Automatic functioning of speed and timing Limit/door detector UPS	unit	1	
7	Centrifuge with Angle Rotor 6 Boreholes for different tubes (max tube size: 85mL) Max RCF: 15,550 x g (11,000rpm) Light weight design: 3.25 incl. Lid for easier handling Material: anodized aluminum for high chemical resistance Rotors and lids autoclavable (20 mins, 121 degrees Centigrade)	unit	1	
1	Lot 4 - Zoology Instruments Kymograph System should include: Powerlab 26T LabChart Teaching Suite Teaching Suite Software Pulse Transducer Respiratory Belt Transducer Sphygmomanometer Push Button Switch Bio Amp cable Shielded Lead Wires Stimulating Bar Electrode Smart Adapter (2) Headphones	unit	1	

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Item No.	Description	Unit	Quantity	Statement of Compliance
1	Lot 4 - Zoology Instruments (continuation) Kymograph Grip Force Transducer Cardio Microphone Reusable ECG Electrodes (3)			

	<p>Disposable Electrodes (100) Flat Electrodes (5) Dry Earth Strap Abrasive Gel Electrode Cream Electrode Paste Alcohol Swabs Human Respiratory Kit Includes: Spirometer Pod Respiratory Flow Head Student Disposable Respiratory Kit (5) Clean Bore Tubing Flow Head Adapter Nerve and Muscle Kit Includes: Teaching Force Transducer Animal Nerve Stimulating Electrode Nerve Chamber Muscle Holder manipulator Stand Features: Provides the ability to conduct human and animal physiology experiments as well as cardiovascular, respiratory muscle and neurophysiology experiments. Provides equipment for conducting isolated nerve and muscle experiments from animal tissues.</p>			
2	<p>Student Wet Spirometer Measure Tidal Volume (TV), Inspiratory Capacity (IC), Inspiratory Reserve Volume (IRV), Expiratory Reserve Volume (ERV), and Vital Capacity (VC) Features large, easy-to-read scale gradations Constructed of durable polyethylene and aluminum Comes with disposable mouthpieces, a one-way plastic valve for sanitary classroom use Size: 30"H x 18"L x 18"W</p>	unit	1	
3	<p>Animal Feeding / Intubation Needles Shape: Straight /Curved Gauges and length: 20G x 1 ½" Ball Diameter: 2 ¼ mm</p>	unit	1	
Lot 5 - NO changes for this lot				