

Sr. No.	Description	Catalogue No.	Qty.	Unit Price US\$	Total Amount US\$
1.	<b>Laboratory Balance specifications:</b>		4	2970.00	11880.00
	Purpose: For precisely weighting of ultra-low weight materials for laboratory uses				
	-Heavy duty and compatible design				
	-Digital scale				
	-Range should read up to 2000 g				
	-Sensitivity: 1mg (0.001g)				
	-Working temperature: 10-40°C, storing temp 0-60°C				
	-Shock resistance and overload protection				
	-Summation of weighting results				
	-Glass cabinet				
	-Programmable ,automatic calibration				
	-Capability of Different units weighting				
	-Balance pan $\geq$ 80mm				
	-Anticorrosion material and easy to clean				
	-Set of weight				
	-Power requirements :220-240V,50-60Hz				
2.	<b>Light Microscope:</b>		4	4730.00	18920.00
	<b>Purpose</b> :to provide magnification and resolution of specimens under examination				
	Heavy duty and compatible design				
	OBSERVATION TUBES Type : binocular				
	Eyepieces:, 10x,15x, wide field, high-eye point				
	Interpupillary distance adjustment; mm: $\geq$ (55 -75), Adjustable.				
	NOSEPIECE CONFIGURATION: Quadruple or more				
	Objectives Magnification: (4x,10x,40x,100x) ,other should be specified				
	Objectives Type : Achromatic, plan achromatic, plan apochromatic ,or others				
	TOTAL MAGNIFICATION: $\geq$ (40x-1000x)				
	CONTRAST METHOD:				

	Brightfield: yes				
	Darkfield: yes				
	Phase: optional				
	ILLUMINATION				
	Condenser type: Abbe,achromatic&/ or other type				
	Light source: LED (preferred),halogen, or other				
	STAND				
	Focusing mechanism: Moving stage, rack and pinion				
	Coarse, fine adjustments: Coaxial, low mounted, $\geq 1\mu$ increments				
	STAGE Type: Mechanical or better				
	Tension adjustment: Coaxial				
	Stage Motion: X-Y				
	Numerical aperture: 0.9 to 1.4				
	Dust cover: yes				
	Environmental requirements: the equipment suitable for working in the climate conditions of Iraq in terms of temperature & humidity				
	POWER SUPPLY: 220-240V,50-60Hz				
3.	<b>Fume Hood:</b>		4	7640.00	30560.00
	Application: A fume hood or fume cupboard is a type of local ventilation device that is designed to limit exposure to hazardous or toxic fumes, vapors and typically used to protect the user in the laboratory.				
	<b>Configuration:</b> Heavy duty & compatible design				
	<b>Materials:</b> shall be constructed of non-combustible, nonporous material selected to resist corrosion for the service intend.				
	<b>Sash options:</b> vertical or horizontal, automatically or manually.				
	<b>Airflow:</b> constant or variable&the hood shall be equipped with an airflow monitor that measures flow and has both visual and auditory alarm				
	<b>END WALLS:</b> the hoods shall have double wall (side) panels. The inner walls and baffles shall be made of molded reinforced thermoset epoxy resins that meet or exceed NFPA 45 Standard on Fire Protection for Laboratories Using Chemicals. The exterior shall be finished to match the base unit. The jambs shall be aerodynamically designed to reduce the turbulence as the air enters the hood.				
	<b>Lights:</b> Hood shall be provided with light fixtures.				
	<b>BAFFLE:</b> must be equipped with fixed or removable baffle across the top and rear of the hood.				
	<b>Hood Exhaust System:</b> depend on hood design.				
	<b>Input power:</b> 220/240 VAC, 50/60 Hz single phase, 3 pin (G type) plug.				

	<b>Environmental requirements:</b> the equipment suitable for working in the climate conditions of Iraq in terms of temperature & humidity				
	<b>Dimension:</b> 90 *120*120 cm				
4.	<b>Water Bath for lab procedures:</b>	2	1130.00	2260.00	
	- Applications: sample thawing, bacteriological examinations, warming reagents, coliform determinations and microbiological assays				
	-Heavy duty and compatible design				
	-Material: seamless stainless steel				
	-External: stainless steel, powder coated				
	-Temperature range: 1°C above ambient to 100°C				
	-On off switch and display by thermometer graded for temperature				
	-Accuracy: 0.2°C				
	-Temperature preset buttons				
	-Circulation Pump to mix water				
	-Microprocessor controlled				
	- Heater: 1000- 1400 watts				
	-Safety Device for overheating protection				
	-Bath Volume: 20 liters				
	-With stainless steel gabled cover				
	-The exterior should remain cool, glass wool insulator				
	-Alarm indicator for overheat limits, low water cutoff				
	- Power Requirements 220-240 V, 50/60 Hz)				
5.	<b>Water Distillation Device (Glass):</b>	5	920.00	4600.00	
	Purpose:is used for producing purifiedwaterto cover laboratoryneeds from distilled water.				
	Configuration: Bench top or wall mounting				
	External material: epoxy – polyester powder coated heavy duty material				
	Internal material: Stainless steel				
	The unit consists of Boiler &condenser				
	Microprocessor controlled				
	Distilled water capacity (20 lit/hr.)				
	Storage tank capacity (l):>20				
	Alarms: visual or audial				
	Environmental requirements: the equipment suitable for working in the climate conditions of Iraq in terms of temperature & humidity				
	POWER REQUIREMENTS: 220-240V, 50-60Hz				
6.	<b>PH/mV/Temperature meter:</b>	4	2280.00	9120.00	
	<b>Application:</b> used for measuring the pH of a liquids.				
	Heavy duty and compatible design				
	<b>Configuration</b> : Portable and bench top meter				

	<b>pH:</b>				
	Range: (-2.0 to 20.000 pH)				
	Resolution: $\leq 0.01\text{pH}$				
	Accuracy: $\leq (\pm 0.01\text{pH})$				
	Calibration automatic or manual .				
	<b>mV:</b>				
	Range: (0 to $\pm 2000$ )				
	<b>Temperature:</b>				
	Range, C <sup>o</sup> : (0 to 100)				
	Resolution C <sup>o</sup> : 0.1				
	Accuracy, C <sup>o</sup> : $\pm 0.5(\text{max.})$				
	$\geq 3$ points Calibration with linear or segmented algorithms.				
	Alarms: for calibration check, electrodes and buffer check,				
	Input channel: 1 or 2				
	Relative mV measurements				
	User selectable for outside Calibration Range for warning and calibration time out when a new calibration is necessary.				
	Readings are automatically compensated for temp.				
	Electrode/s: pH/refelectrode, temperature				
	LCD display:				
	Display pH and temp., or mV and temp. readings at the same time				
	Clearly shows measurements, time and date, error message, setup prompts to guide user from step to step.				
	<b>Power requirements:</b> 220~240 VAC, 50/60 Hz				
	<b>Other specifications:</b>				
	Stainless steel temperature probe				
	pH probe				
	pH 4, pH 7 and pH 9 buffer solutions				
	cleaning and electrolyte solution				
	Electrode holder				
	Automatic lock mode: to lock in stable reading				
	Space (extra) electrode & filling solution .				
	<b>Accessories:</b>				
	electrodes				
	Electrode polish				
	<b>Interface:</b>				
	RS232 computer interface with upgradable software windows based and Other interfaces				
	<b>Environmental requirements:</b> the equipment suitable for working in the climate conditions of Iraq in terms of temperature & humidity				



7.	<b>Shaker:</b>		4	1525.00	6100.00
	Orbital shaker for large containers				
	Microprocessor controlled				
	350 × 400 mm effective platform area				
	25 Kgm. maximum load				
	Shaking speed from 20 to 220 rpm				
	30 mm wide orbit				
	Dimension 40 × 50× 12 cm				
	Weight 12Kgm.				
8	<b>Hot air oven:</b>		5	2820.00	14100.00
	<b>Temperature range</b>				
	50°C ~ 300°C				
	<b>Temperature control</b>				
	Thermostatically controlled				
	<b>Inside material</b>				
	Double /Triple walled Construction inner chamber made of Stainless steel with supports on the three sides for two/three adjustable perforated stainless steel shelves				
	<b>Outside material</b>				
	- Mild steel sheet painted/powder coated - Insulated stainless steel door with locking and rear zinc-plated steel				
	<b>Capacity : &gt; 50 Itr.</b>				
	<b>Safety Alarm</b>				
	- Yes (Audible and visual) - Optional automatically shut down protection circuit				
	<b>Air circulating fan : Yes</b>				
	<b>Digital timer : Yes</b>				
	<b>Power supply : - 220/240 VAC, 50/60 Hz</b>				
	- Over current & over heated protection circuit				
	- Three Pin UK type Plug				
	- Voltage corrector/stabilizer circuit of (Input 160-260 V and output 220-240 V and 50 Hz)				
	<b>Other specification</b>				
	- On/off rocker switch with indicator				
	- Adjustable wire mesh nickel plated trays/aluminum trays				
	- Digital indicator cum controller				
	- The gap between the two walls filled with glass wool insulation				
	- Easy-to-clean interior				
	- Forced air circulation by quiet air turbine/Fan to ensure uniform temperature				

	- Fitted with load indicator and safety thermostat take over indicator				
	lamp. LCD/LED Indicator				
	- Output available for data acquisition				
	- Environmental requirements: the equipment suitable for working in the climate conditions of Iraq in terms of temperature & humidity				
<b>Total CIP Baghdad US\$</b>					<b>97540.00</b>