## SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS LABORATORY EQUIPMENT (CAS-DPS)

1 3	units	FUMEHOOD			190,000.00	570,000.00
			1.4		130,000.00	370,000.00
			Internal Capacity	0.33-0.42 cubic meter		
			Work surface height Maximum opening	900 mm 750 mm		
			Air Velocity	0.3-0.8 m/s		
			System exhaust volume	570 m3/h		
			Noise	< 68dB		
			Exhaust duct	PVC		
			Length			
			Diameter			
			Pipe strap	2 pcs		
			LED Lamp	8W		
			Blower:	Built-in PP centrifugal blov	ver	
			Front window	Manual		
				5mm toughened glass		
				Height adjustable		
			Power supply	220 V ± 10%		
			Consumption	400 W		
				1.0 cold-rolled steel with b		
			interior	High grade melamine boa alkali resistant function		and
			Work table	Chemical resistant phenol		
			Accessory	Gas Tap	10 162111	
			Accepti	Odo Tap		
2 5	sets	DISTILLATION APPARATUS/ GLASSWARE KIT	Distillation Head with Conden	ser	5,000.00	25,000.0
		Set With Joints 24/40 Borosilicate Glass	<ul> <li>Full Length Standard Taper Joints</li> </ul>			
			<ul> <li>Overall Height (mm)</li> </ul>	at least 200		
			Overall Width (mm)	at least 300		
			Jacket Length (mm)	at least 300		
			Standard Taper Joints	24 / 40		
			Thermometer immersion depth	75 mm		
				7.5 111111		
			Thermometer			
			Taper Joint	Standard 10/30		
			<ul> <li>non-mercury thermometer</li> </ul>	(-10 to 405 C)		
			<ul> <li>subdivision</li> </ul>	1 degree Celcius		
			Distillation Bent			
			<ul> <li>Overall Width (mm)</li> </ul>	at least 110		
			<ul> <li>Overall Height (mm)</li> </ul>	at least 140		
			<ul> <li>Standard Taper Joints</li> </ul>	24 / 40		
			Round Bottom Flask (Short Neck	Alexander Haller		
			Standard Taper Joints			
			Commence and the commen	24 / 40		
			1000 ml-1 pc/set			
	$\sim$		500 ml - 1 pc/set			
			250 ml-1 pc/set			
3 1	unit	DIGITAL ROTARY VISCOMETER			44,000.00	44,000.00
			LCD display with temperature se			
			Measuring Accuracy	± 2% (Newton liquid)		
			Measurement range	1 to 100000 mPa.s		
			Relative Humidity	80%		
			Ambient temperature	5 C to 35 C		
			Rotor velocity (automatic)	6 rpm, 12 rpm, 30 rpm, 60	rpm	



4 3 units pH METER	pH			
	range	0.00 to 14.00 pH	40,000.00	120,000
	resolution	0.01 pH		
	accuracy	± 0.01 pH		
	calibration points		atia buffan ar ar	10 - (ADD)
	mV	1 to 5 points with automa	auc buller recogn	ittion (ABR)
	Range	±1999 mV		
	Resolution			
	Accuracy	0.1 mV (±199.9 mV), 1	mv beyond ±200	) mV
	Offset Adjustment	±0.2 mV (±199.9 mV), ±2 mV beyond ±200 mV		
		Up to ±150 mV		
	Temperature	0.04 400 0.00		
	Range	0.0 to 100.0 °C		
	Resolution	0.1 °C		
	Accuracy	±0.3 °C		
	ATC Temperature Calibration	Offset in 0.1 °C increme	ents; Offset range	2: ±5 °C
	Temperature Compensation	Automatic or manual (0	to 100 °C)	
	Memory	100 data sets		
	Hold Function	Yes		
	Self-Diagnostic Messages	Yes		
	pH Slope & Offset Display	Yes		
	Inputs	BNC, 2.5 mm phono plu	g, reference pin	tip, ground
	Output	Recorder (±2000 mV)		1.0
	Power Requirements	AC/DC 9 V adapter (110/220 VAC, 50-60 Hz)		
1 unit UV-VIS SPECTROPHOTOMETER	Spectrum bandwidth	5nm	480,000.00	480,000.0
	Wavelength range	190.0 to 1100.0 nm	,	400,000.0
	Display wavelength	0.1nm step		
	Selectable wavelength	0.1nm step (1nm step in	spectrum mode	
	Wavelength accuracy	±1.0nm	opood an mode,	
	Wavelength repeatability	±0.3nm		
	Scan speed		rovimately 6000	nm/min
		Wavelength change: approximately 6000 nm/min. Scan: approximately 9 to 1600 nm/min.		
	Noise	Less than 0.002 Abs, Pea	k to Dooklood th	on 0 0005 Aba
	Light source	20W Halogen lamp (long-	life 2000 hours)/	an 0.0005 Abs,
		Deuterium lamp (socket ty	ine 2000 nours)/	
	Monochromator	Incorporates aberration-c	ype)	
	THE THE STREET	blazed holographic grating	onecung concav	/e
	Detector	Silicon photodiode	9	
	Sample compartment		0	
	Cample compartment	W110.0 × D230.0 × H105	o.u mm(partial de	pth: 155.0 mm)
	Dienlay	2 screw port for option acc	cessory installati	on
	Display	6 inch LCD (320 × 240 do	t) with CFD lighti	ng
		with contrast adjustment		
	Power supply	220~240 V 50/60 Hz 140	VA	
The state of the s	Ambient temperature & humidity	15 to 35°C/30 to 80%		
	less than 70% if over 30°C			
1 unit CENTRIFUGE	Cuvettes	Included		
I WIIL CENTRIFUGE	Maximum Speed	Angle Rotor: 14.000 rpm	45,000.00	45,000.00
	Maximum RCF	Angle Rotor: 18.405xg		
	Tube Capacity	Angle Rotor: 30x 15 ml		
	Control System	N-Prime Programmable N	Aicroprocessor C	ontrol System
	Speed Set Range	500-14,000 rpm		
	Speed Set Step	10 rpm		
*	Speed Control Accuracy	± 20 rpm		
	Timer Set Range	1-99 minutes and hold position		
	Timer Set Step	1 minute		
	Acceleration/Braking Rates			
	Motor	Maintenance Free Induction Motor		
	Power Supply	Maintenance Free Induction Motor 230 V / 50 Hz		
	Power Consumption	800 W		
	· OHOL OURSUINGUI	000 44		
ANGLE ROTOR AND ACCESSORIE		Canacity	Man O	14
ANGLE ROTOR AND ACCESSORIE		Capacity	Max. Speed	Max. RCF
ANGLE ROTOR AND ACCESSORIE	S Description		Rpm	Xg
ANGLE ROTOR AND ACCESSORIE	S Description  Angle rotor	Capacity 30 x15 ml 30 x5 ml		



7	1 unit	ACID/BASE CORROSIVE SAFETY CA	ABINET	90,000.00	90,000.00
			Specifications Capacity: 30 gal. Color: Blue Door Style: Manual Close/Auto Close Lock: 3 point bullet anti-static locking Number of Shelves: 1 Number of PVC Tray: 1		
8	4 units	DOUBLE HOT PLATE ELECTIC STOVE	Specifications:	2,500.00	10,000.00
			Double cooking plate     Heavy-duty heating plate     Temperature level selection with thermostat     Pilot lamp for power on     Easy to clean body and heating surface     Max 500C surface temperature     220 V     at least 500 W     Plate Diameter: 8"-10"		
9	5 units	CIRCUIT BREAKER	Specification: 2-pole 15 Ampere 230V heat-resistant thermoset case	1,000.00	5,000.00
10	5 units	CONVENIENCE OUTLET SET, 2 GANG	Specification: 5000 x 5000 px 42.3 cm x 42.3 cm 300dpi Heavy Duty with plastic utility box	500.00	2,500.00
11	1 unit	LICENSED SOFTWARE WOLFRAM M.	ATHEMATICA  version 10 or higher  New Areas  Machine learning  computational geometry  geographic computation  device connectivity  algorithhmic world deepening capability	150,000.00	150,000.00

GRAND TOTAl 1,541,500.00

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