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SUPPLEMENTAL BID BULLETIN No. 02

RE: BIDDING FOR THE SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF VARIOUS LABORATORY FACILITIES & EQUIPMENT

This addendum No. 02 is issued to modify or amend items in the Bid documents. This shall form an integral part of the Bid Documents:

Original	New			
Awarding – per line item	Awarding will be on a lot basis. Items have been grouped into lots, to wit:			
	ABC/Lot	Cost of Bidding Document (Non-refundable)		
	Lot 1 - ₱10,546,000.00	₽11,000.00		
	Lot 2 - ₱3,600,000.00	₽4,000.00		
	Lot 3 - ₱10,300,000.00	₱10,500.00		
	Lot 4 - ₱1,354,000.00	₽1,500.00		
	NOTE: Please refer to attachm			
TECHNICAL S	PECIFICATIONS	6		
Original Tech. Specs.	Revised Tech. Specs.			
2. AUTOCLAVE Capacity: at least 20 L Sterilization Temperature: up to 134 C Sterilization Time: at least 4 mins-20 min Working pressure: at least 0.21 MPs Chamber Material: Stainless Steel Tray: at least 3 Water tank: Water fed from the outside tank Chamber dimensions: at least 250 x 490 mm (Dia X Depth) Overall Dimension: at least 480 X 690 X 430 mm (L X W X H)	2. PRESSURE COOKER Material: Aluminum Liquid Capacity (Qts.): at least 2 Inside Diameter, Inches: 12.5 Inside Height, Inches: 14 The professional quality deluxe Cooker / Canner with the exclus Does not use gaskets with ""Me Size: 38H x 42W x 38D cm Weight: 10 kg	cast aluminum Pressure sive ""Metal-To-Metal"" seal		
4. VISCOMETER Measured Range(mPa·s): 100~6,000,000 Rotation Speed(rpm): 0.1,0.3,0.6, 1.5, 3, 6, 12, 30, 60 Number of Spindle: 4 types(L1~L4) Measurement Accuracy: ±3%(FS)(Newtonian Fluid) Repeatability: ±0.5%(FS)(Newtonian Fluid) Power Supply: AC220V±10%, 50/60HZ; 110V±10%, 50/60HZ		6,000,000 .3,0.6, 1.5, 3, 6, 12, 30,60 es(L1~L4) S)(Newtonian Fluid) vtonian Fluid)		

Standard accessory /	Standard accessory /
Optional accessory: RTD temperature probe	Optional accessory: RTD temperature probe
LOspindle is for Option	LOspindle is for Option
Measured Range (mPa.s): 10~6000	Measured Range (mPa.s): 10~6000
Package Size : 470*395*245	Package Size: 470*395*245
G.W.: 8.5kg	G.W.: 8.5kg
6. SCALE BALANCE	6. SCALE BALANCE/TOP LOADING BALANCE
Measuring system Adjustment options:	·····
•External calibration Linearity: 30 mg n/a: 20 g	Measuring system Adjustment options:
•Readout [d]: 10 mg	External calibration Linearity: 30 mg n/a: 20 g
•Recommended adjusting weight: 1 kg (F1)	Readout [d]: 10 mg
•Reproducibility: 10 mg	Recommended adjusting weight: 1 kg (F1)
•Resolution: 100000	Reproducibility: 10 mg
•Stabilization time: 3 s	Resolution: 100000
•Warm up time: 2 h	Stabilisation time: 3 s
•Weighing range [Max]: 1 kg	Warm up time: 2 h
 Weighing system: Strain gauge 	Weighing range [Max]: 1 kg
• Weighing units: ct dwt g gn lb mo oz ozt tl (HK) tl (Tw) tol	Weighing system: Strain gauge
Display Display digit height: 1,500 cm Counting Counting	Weighing units: ct dwt g gn lb mo oz ozt tl (HK) tl (Tw) tol
resolution: 50000	Display Display digit height: 1,500 cm Counting
 Minimum piece weight at piece counting (Laboratory: 20 	Counting resolution: 50000
mg	Minimum piece weight at piece counting (Laboratory: 20 mg
 Minimum piece weight at piece counting (Normal): 200 	Minimum piece weight at piece counting (Normal): 200 mg
mg	Functions Counting function: yes
•Functions Counting function: yes	Percentage determination: yes
Percentage determination: yes	Suspended weighing: Hook Vibration-free weighing
Suspended weighing: Hook Vibration-free weighing (Animal	(Animal weighing program): yes
weighing program): yes	
16. KJELDAHL ANALYZER Water Consumption 1.5L/Min	16. KJELDAHL ANALYZER (titration and distillation)
Ambient Temperature 5~40°C	Water Consumption1.5L/MinAmbient Temperature5~40°C
Ambient Humidity 80%	Ambient Humidity 80%
Measure Range 0.1mg~200mg	Measure Range 0.1mg~200mg
Analysis Time 5~10min	Analysis Time 5~10min
Recovery Ratio ≥99.5%	Recovery Ratio ≥99.5%
Sample Amount Solid ≤ 5g; Liquid ≤20m1	Sample Amount Solid ≤ 5g; Liquid ≤20ml
Burette Accuracy 2µL/ step	Burette Accuracy: 2µL/ step
Reproducibility ±0.5%	Reproducibility ±0.5%
Consumption 2000W	Consumption 2000W
Power Supply AC110/220 V±10%, 60/50Hz	Power Supply AC110/220 V±10%, 60/50Hz
Packing size(W*D*H) 455*391*730mm 38kg	Packing size(W*D*H): 455*391*730mm; 38kg; Main body:
Gross weight Main body: 52.7kg 12.5kg	52.7kg
	Gross weight 12.5kg
18. DIFFERENTIAL SCANNING CALORIMETER	18. DIFFERENTIAL SCANNING CALORIMETER
Parameters details: • Temperature range: room temperature ~1500°C	Temperature range (max.) -170°C to 600°C
•Temperature range: room temperature ~1500°C •Temperature resolution:0.1°C	Max. cooling rate/max. heating rate 500 K/min
•Heating rate:0.1~80°C/min ;	Measuring range/ weighing range (max.): ± 750 mW
•Temperature control mode:; rise in temperature ;	Enthalpy accuracy: < 1% TGA resolution: n/a
constant temperature (Programs control automatically)	Indium Response Ratio (*): > 100
•BKSC range:0~±200mW	Exchangeable sensors n/a
•BKSC resolution:0.01mW	Cooling options: - Air compressor: RT to 600°C
•BKSC sensitivity:0.1mW	- Compressed air: < 0°C to 600°C
•Working power supply:AC 220V 50Hz or custom-made	- Intracooler: -70°C to 600°C
•Atmosphere control of gas :nitrogen ;oxygen (instrument	- Liquid nitrogen: -170°C to 700°C
changes automatically)	Gas atmospheres: Inert, oxidizing, static and dynamic
•10 Gas flow:0-200mL/min	Mass flow controller for purge/protective gas: 3, integrated
 Gas pressure:0.2MPa Accuracy of gas flow:0.2mL/min 	(0 to 250 ml/min)

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 Matching crucible: Alumina crucible Ø6.7*3mm Parameter standard: equipped with standard material(indium ,tin, zinc) the user can correct the temperature and enthalpy Data interface: standard USB interface Display mode: 24bit color 7 inch LED touch screen display Output mode: computer and printer 20. ROTARY EVAPORATOR with accessories Specifications Estimated Shipping Weight: 69.0 lbs 20 - 280rpm Estimated Shipping Weight metric: 31.0 kg Ambient - 180°C Dimensions: 35.75" w x 9" d x 26.88" h ± 1°C Dimensions metric: 91 x 23 x 68 cm: 1300W Electrical: 115 V, 150mm, 1 - 99 mins	Automatic Sample Changer (ASC): Yes (optional) Software: min. Proteus® 8 Proteus® software extensions included - SmartMode - ExpertMode - AutoCalibration - (Advanced) BeFlat® - AutoEvaluation - Identify Proteus® software extensions (optional): -Temperature modulation - Specific heat capacity (cp) - Proteus® Protect - Purity Determination Advanced Software extensions (optional): - Peak Separatioin - Kinetics Neo - Thermal Simulations Size (W x H x D) – incl. ASC, without physical connections 350 mm x 445 mm x 560 mm 20. ROTARY EVAPORATOR with accessories Lift: Hand lift or Motor lift Rotation speed range: 10 280 rpm Rotation speed indicator: 3.5" LCD Display Heating capacity: 1,300 W Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000 Bath temperature setting: 3.5" LCD Display
Specifications: Yes	Heating bath temperature control: electronic / digital
Estimated Shipping Weight: 69.0 lbs 1400W Estimated Shipping Weight metric: 31.0 kg; DC brushless Dimensions: 35.75" w x 9" d x 26.88" h ;18.3L x 18W x 23Hin Dimensions metric: 91 x 23 x 68 cm; 33lbs	Max. size evaporating flask: 5 L Condensing surface: 1,400 cm ² Condensing surface XL condenser: 2,200 cm ²
Electrical: 115 V, 110V, 60Hz, 220-240V 21. VACUUM FILTRATION ASSEMBLY/SET UP WITH SINGLE	21. SOLVENT FILTRATION ASSEMBLY WITH SINGLE PUMP
PUMP Specifications Estimated Shipping Weight: 69.0 lbs	FunnelPoreMaterialReceivingMembraneSize ofSupportBottle
Estimated Shipping Weight metric: 31.0 kg Dimensions: 35.75" w x 9" d x 26.88" h	Filter Screen
Dimensions metric: 91 x 23 x 68 cm	500ml 10 μm glass 2000ml Φ60mm
Electrical: 115 V	Standard Accessories: Solvent Filter system consists of solvent filter
	Filter include:
	* Triangle fluid bottle * Core filter head
	* Filter bowl * Clamp
	* Dust cover
	* Rubber hose
	* Hose linker
23. LABORATORY OVEN	Single Vacuum Pump 23. LABORATORY OVEN
	23. LABORATORT OVEN
	Max temp (°C) : 250

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Specifications	Min temp (°(-			
Estimated Shipping Weight: 69.0 lbs	Temp unifor		±5.0@29	50°C	
Estimated Shipping Weight metric: 31.0 kg	Heat-up time	• •	23		
Dimensions: 35.75" w x 9" d x 26.88" h	Recovery tin		3		
Dimensions metric: 91 x 23 x 68 cm	1	295 x 300 x 32			
Electrical: 115 V	Dimensions:	440 x 590 x 46	5 Externa	l H x Wx D (ı	nm)
	Shelves fitte	d / accepted: 4	43500		
	Shelf loading	g each / total (kg): 43758	3	
	Volume (litre	es) : 28			
	Air changes	/hr:65			
	Max power (W): 1000			
	Holding pow	er (W): 342			
	Weight (kg):	24			
24. FAT EXTRACTOR WITH ACCESSORIES	24. FAT	ANALYZER/E	XTRACTO	R	
	Temp. Range	e RT +5°C^	′300°C	dia.	
Specifications	Measuring R	ange 0~100%		All the second	
Estimated Shipping Weight: 69.0 lbs	Temperature	e Accuracy	±1°C 🦉		
Estimated Shipping Weight metric: 31.0 kg	Sample Weig	ght 0.5~15g(generally	2~5g, deper	nding on
Dimensions: 35.75" w x 9" d x 26.88" h	sample)			n th Mhadhli	
Dimensions metric: 91 x 23 x 68 cm	Capacity 6pc	s/batch 🥼		PHERE I	
Electrical: 115 V,	Solvent Cup	Volume 🚲 🖔	80ml		
	Solvent Reco				
	Consumption		A CALL		
	Power Suppl	y AC 220V	±10%, 50H	IZ	
	External Size	(W*D*H)	650*320*	715mm	
	Package Size	(W*D*H)	735*410*	880mm	
	Gross Weigh	t 54.5kg			
25. PORTABLE TOXICITY ANALYZER	25. PO	RTABLE TOXIC	ITY ANAL'	ZER	
Size: 20cm x 18cm x 10cm (8" x 7" x 4")	Displays Up ⁻	To 5 Gases			
Weight: 1 kg (2.2 lbs)	• LEL (PPM C				
Power: Self-contained Lithium ion battery or a universal	 Oxygen 				
power adapter : (15 V dc @ 4 amps)	Carbon Mc	noxide			
Instrument Operational Temp: 0°C - 40°C	• Hydrogen S	Sulfide			
Reagent Operational Temp: 10°C - 28°C	• Hydrogen (Cyanide (Optic	onal)		
Dynamic Test Range: CE	Sensor Speci	fications			
Approvals: 10°C - 28°C					-
Display Output: Backlight LCD – 8 lines x 20 characters					Response
Data I/O: Standard serial USB for data transfer and	T	B . 1 .			T90
firmware updates	Туре	Resolution	Range	Accuracy	Times
Data Storage: 6.5k byte storage area (approx. 600 reads)					
Data Handling: Stand alone or download capability to PC		SSALENCESSERVERSELSE OM FRANKLIKERE SREDREFER SVER	ha ann an thachtair do Sair Ann a sha a sha a	lande verse andere er saarte ee	
Test Reagent: Freeze-dried luminescent bacteria (Vibrio	LEL	0.1%	0-	±10%	< 10%
fischeri)			100%		Sec
Toxicity Reagent Storage Freeze-dried -15°C to -25°C					
Rehydrated 2 hours (ambient temperature)		n 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
ATP Reagent Storage Refrigerate	Oxygen	0.1%	25%	±2% or	< 10%
Test Modes Toxicity (Q-Tox and B-Tox) and ATP	,0		,	10%**	Sec
measurement					
Test Durations 1-60 minute exposure	19.1.1.1.1				
Repeatability (Precision) <20% coefficient of variation for	Carbon	1	•	1C	4 4 007
B-Tox and	Carbon Monovido	1 ppm	0- 000*	±5 ppm	< 10%
Q-Tox mode testing Sensitivity and Range: The analyser	Monoxide		999*	or 10%**	Sec
can detect photon counts from 0 to 60 million				10%**	
Capacity 16L					
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	Hydrogen	1 ppm	0-100	±2 ppm	< 20%
Control system Analog Microprocessor Temp control ON / OFF PID	Hydrogen Sulfide	1 ppm	0-100 ppm	±2 ppm or	< 20% Sec
Control system Analog Microprocessor Temp control ON / OFF PID		1 ppm			

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Temp uniformity±5.0°C at 37°C ±3.0°C at 37°CTemp stability±3.0°C at 37°C ±1.0°C at 37°COver-temp alarm & shutoutAt 80°C 4°C to the sepointTimer Mechanical,180 min + HOLD	Cvanide	0.1 ppm	0-30	±1 ppm or 10%**	< 20% Sec
Temperature range Ambient + 5°C to 75°C Standard accessory 2 S/S mesh shelves, adjustabl	e Nitrogen Dioxide	1 ppm	0-250	±2 ppm or 10%**	< 20% Sec
	Sulfur Dioxide	0.1 ppm	0-20	±1 ppm or 10%**	< 20% Sec
	Phosphine	0.1 ppm	0-10	±1 ppm or 10%**	< 20% Sec
	Ethylene Oxide	0.1 ppm	0-10	±1 ppm or 10%**	< 20% Sec
26. LABORATORY INCUBATOR	26. LABO	26. LABORATORY INCUBATOR			
Chamber Stainless steel SUS#304	4.				
Chamber Stainless steel SUS#304 Temperature Range Ambient + 5°C to 75°C	Chamber		Stainless	steel SUS#	304
(Adjustable)	Temperature	range		t + 5ºC to 7	
Control System Microprocessor			(Adjusta	-	
controlled system	Control syster	n	-	ocessor con	trolled
Temperature Control PID	Temperature	control	system PID		
Temperature Display Digital LED Sensor PT+100	Temperature		Digital L	FD	
Standard Accessory 2 stainless shelves,	Sensor		PT-100	20	
nterval is adjustable	Standard Acce	essory	2 stainle	ess steel she	lves,
Capacity Available 16L				s adjustable	2
Timer Mechanical, 180min + HOLD	Capacity availa Timer	able	16L	cal, 180min	
Femperature setting/Display Digital LED Femperature uniformity ±2ºC at 37ºC	Timer		Wechan	cai, 180mm	+ HOLD
Temperature Stability ±0.1ºC at 37ºC	Temperature		Digital LE	D	
Resolution 0.1ºC	setting/Displa	у			
Dver-heat alarm and shutout Yes, 4ºC above the se			±2ºC at		
ooint Air Convection Natural convection	uniformity Temperature s	stability	±0.1ºC a 0.1ºC	t 37ºC	
Air Vent Yes	Resolution	stability		above the s	et point
Quality standard ISO, CE, GMP, FDA, Japan	Over-heat alar	rm &	,		
	shutout			onvection	
	Air convection Air vent		Yes		
	Quality standa	ırd	130, CE, (GMP, FDA, J	арап
85. ATOMIC ABSORTION SPECTROPHOTOMETER	35. ATOM	IC ABSORT	ION SPECT	ROPHOTON	AETER
unit Atomic Absorption Spectrophotometer Optics	1 unit Aton	- :		ophotomet	

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Monochromator: Aberration-corrected Czerny-	
Turner mounting	Optics
No. of grating grooves: 1800lines/mm	Wavelength range: 185.0 to 900.0 nm
Focal length: 298mm	Monochromator: Aberration-corrected Czerny-Turner
Bandwidth: 0.2, 0.7, 1.3, 2.0L nm (4 step automatic	mounting
switching)	No. of grating grooves: 1800lines/mm
Detector: Photomultiplier tube	Focal length: 298mm
Optics: Optical double-beam	Bandwidth: 0.2, 0.7, 1.3, 2.0L nm (4 step automatic
Background correction: BGC-SR (High-speed self-reversal	switching)
method) (185.0 to 900.0 nm) BGC-D2 (D2 lamp method)	Detector: Photomultiplier tube
(185.0 to 430.0 nm)	Optics: Optical double-beam
Number of HC lamps: 6-lamp turret, 2 lamps	Background correction: BGC-SR (High-speed self-reversal
simultaneously lit (1 for measurement, 1 warming up for	method) (185.0 to 900.0 nm)
the next measurement)	BGC-D2 (D2 lamp method) (185.0 to 430.0 nm)
Lamp mode: EMISSION, NON-BGC, BGC-SR, and BGC-D2	Number of HC lamps: 6-lamp turret, 2 lamps
Software requirements: Microsoft Windows	simultaneously lit (1 for measurement, 1 warming up for the
Parameter settings: Wizard method	next measurement)
Measurement mode: Flame continuous method	Lamp mode: EMISSION, NON-BGC, BGC-SR, and BGC-D2
(standard), flame micro sampling method (option), furnace	Software requirements: Microsoft Windows
method (option), flame emission method Baseline correction: Automatic correction of the baseline	Parameter settings: Wizard method
drift through offset processing in peak height/ peak area	Measurement mode: Flame continuous method
mode	(standard), flame micro sampling method (option), furnace
Sensitivity correction: Automatic calibration curve	method (option), flame emission method Baseline correction: Automatic correction of the
correction with sensitivity monitoring	
Electronic records: FDA 21 CFR 11 compliant	baseline drift through offset processing in peak height/ peak area mode
Power requirements: 230VA, 50/60Hz	Sensitivity correction: Automatic calibration curve correction
Dimensions & Weight: W 700 x D 588 x H 714mm, 72kg	with sensitivity monitoring
(not including the protruding parts	Electronic records: FDA 21 CFR 11 compliant
	Power requirements: 230VA, 50/60Hz
Burner unit	Dimensions & Weight: W 700 x D 588 x H 714mm, 72kg
Type: Air-cooled pre-mix type	not including the protruding parts
Burner head: Made of titanium, 10cm slot (5cm slot for	
N2O-C2H2 flame available as an option)	
Nebulizer: Pt-Ir capillary. PTFE orifice. Ceramic impact bead	Burner unit
(capable of handling hydrofluoric acid)	Type: Air-cooled pre-mix type
Chamber: Engineering plastics	Burner head: Made of titanium, 10cm slot (5cm slot for
Positioning control: Automatic search for the optimal	N2O-C2H2 flame available as an option)
burner height, automatic adjustment of vertical position,	Nebulizer: Pt-Ir capillary. PTFE orifice. Ceramic impact bead
manual adjustment of back and forth position	(capable of handling hydrofluoric acid)
Gas control unit	Chamber: Engineering plastics
Flow rate control: Automatic fuel gas flow rate setting	Positioning control: Automatic search for the optimal
(0.1L/min step). Auto search of optimum gas flow rate	burner height, automatic adjustment of vertical position,
Safety measures	manual adjustment of back and forth position
•Automatic gas leak check.	
•Automatic Air-N2O switching as C2H2 flow rate increases.	Gas control unit
•Flame monitor.	Flow rate control: Automatic fuel gas flow rate setting
•Prevention of wrong burner head use.	(0.1L/min step). Auto search of optimum gas flow rate
•Gas pressure monitor.	
•Drain tank level monitor.	Safety measures:
•Automatic flame extinction upon power outage or sudden	•Automatic gas leak check.
power interruption.	•Automatic Air-N2O switching as C2H2 flow rate increases.
•Automatic flame extinction via flame vibration sensor.	•Flame monitor.
Internal fan stop sensor •Total Jamp lit time far Jamp life men senset (CLD (2010	 Prevention of wrong burner head use.
 Total lamp lit time for lamp life management (GLP/GMP compliance) 	•Gas pressure monitor.
	•Drain tank level monitor.
 Capable of trace sample analysis using Micro Sampling: approximately 50 to 90 uL 	•Automatic flame extinction upon power outage or sudden
approximately 50 to 50 UL	power interruption.
Includes the following items	•Automatic flame extinction via flame vibration sensor.
	Internal fan stop sensor

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1 unit	Prandad Computer & Drinter	a Tatal Jamp lit time for Jamp life management (CLD/CNAD
6 Pcs	Branded Computer & Printer Lamps (Pd, Ni, Cu, Zn, Fe, Cd)	 Total lamp lit time for lamp life management (GLP/GMP compliance)
1 unit	Fumehood	•Capable of trace sample analysis using Micro Sampling:
1 Pc	Festo Filter	approximately 50 to 90 uL
1 Pc	Regulator	
1 unit	Compressor	
6 bots	Standards	Includes the following items
10 Pcs	Volumetric flask (100 mL)	1 unit Branded Computer & Printer
10 Pcs	Volumetric Flask (50 mL)	6 Pcs Lamps (Pd, Ni, Cu, Zn, Fe, Cd)
1 Pc	Pipette (10-100 uL)	1 unit Fumehood
		1 Pc Festo Filter
		1 Pc Regulator
		1 unit Compressor
		6 bots Standards
		10 Pcs Volumetric flask (100 mL)
		10 Pcs Volumetric Flask (50 mL)
		1 Pc Pipette (10-100 uL)
		1 unit 3KVA UPS
36.	MICROWAVE OVEN	36. MICROWAVE OVEN
•	33 Liters Inverter Microwave Oven	33 Liters Inverter Microwave Oven
•	6 Quick & Easy Menus	6 Quick & Easy Menus
•	Reheat Options • 1,200 W	Reheat Options • 1,200 W
•	Other Features	Other Features
2	Door TypePush Door Button	Door TypePush Door Button
2	Features Stylish glass door	FeaturesStylish glass door
2	320mm Carousel turntable	320mm Carousel turntable
2	Australian developed menus	Australian developed menus
2	9 Sensor cook menus	9 Sensor cook menus
2	5 Sensor reheat menus	5 Sensor reheat menus
2	6 Quick and easy meal menus	6 Quick and easy meal menus
? ?	4 Melt/soften menus	4 Melt/soften menus
2	2 Express defrost menus 5 Easy defrost menus	2 Express defrost menus
2	11 Power levels	5 Easy defrost menus
2	Stylish stainless steel fascia	11 Power levels
2	More/less setting	Stylish stainless steel fascia More/less setting
2	Instant cook/start	Instant cook/start
2	Child lock	Child lock
?	Demonstration mode	Demonstration mode
2	LCD display	LCD display
2	Alarm function	Alarm function
38.	PHYSICS LABORATORY TABLES, CABINET	38. PHYSICS LABORATORY TABLES, CABINET FIXTURES
FIXTURE	S & ACCESSORIES	& ACCESSORIES
PHYSICS		PHYSICS TABLE 6 pcs
	0mm L x 1000mm W x 850mm H	Dim 2400mm L x 1000mm W x 850mm H
DEMON	STRATION TABLE WITHOUT GAS OUTLET AND SINK	DEMONSTRATION TABLE WITHOUT GAS OUTLET AND SINK
	0mm L x 600mm W x 850mm H	1 pc
PLATFOF		Dim 1680mm L x 600mm W x 850mm H
	0mm L x 1650mm W x 169mm Elevation	PLATFORM 1pc
	TORY STOOLS	Dim 4800mm L x 1650mm W x 169mm Elevation
	mm dia x 550mm H CABINET	LABORATORY STOOLS 40 pcs
	CABINET 0mm L x 500mm W x 2100 H	Dim 300mm dia x 550mm H
	UIIIII L X SUUMM W X 2100 H	
		DISPLAY CABINET 2 pcs
		Dim 1200mm L x 500mm W x 2100 H
		LAB SIDE TABLES WITH 1 SINK 1 pc
		Dim 2440mm L x 650mm W x 850mm H

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	Accessories:
	Items Quantity
	Vernier Caliper 20
	Micrometer Caliper 20
	Set of weights 10
	Force table 20
	Meter stick 50
	Spring balance 50
	Dynamic cart 10
	Friction less dynamic track set 5
	Linear air track with blower and trolley set 5
	Centripetal force apparatus set 5
39. FORENSIC TABLES, CABINET FIXTURES &	39. FORENSIC TABLES, CABINET FIXTURES &
ACCESSORIES	ACCESSORIES
ACCESSORIES	ACCESSORIES
LAB CENTER TABLE	LAB CENTER TABLE 6 pcs
Dim 2400mm L x 1000mm W x 850mm H	Dim 2400mm L x 1000mm W x 850mm H
	DEMONSTRATION TABLE WITHOUT GAS OUTLET AND SINK
DEMONSTRATION TABLE WITHOUT GAS OUTLET AND SINK	1 pc
Dim 1680mm L x 600mm W x 850mm H	Dim 1680mm L x 600mm W x 850mm H
	PLATFORM 1 pc
PLATFORM	Dim 4800mm L x 1650mm W x 169mm Elevation
Dim 4800mm L x 1650mm W x 169mm Elevation	LABORATORY STOOLS 40 pcs
	Dim 300mm dia x 550mm H
LABORATORY STOOLS	and the second
Dim 300mm dia x 550mm H	LAB SIDE TABLES WITH 1 SINK 1 pc
	Dim 2440mm L x 650mm W x 850mm H
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	Accessories:
	Glasswares Quantity (pcs)
h. a. Will	Beaker (25, 50, 100, 250 ml capacity) 50 each
	Erlenmeyer (125, 250 capacity) 50 each
	Graduated Cylinder (10, 50, 100 ml) 20 each
	Volumetric Flask Clear (25,50, 100, 250, 500, 1L) 10 each
	Acid Burets 50ml 10
	Base Burettes 50 ml 10
and the second	Burette stand with Burette Clamp 5
	Wash bottles plastic 10
	Deionized Water bottle 10
40. RESEARCH LABORATORY TABLES, CABINET	
FIXTURES & ACCESSORIES	40. RESEARCH LABORATORY TABLES, CABINET FIXTURES & ACCESSORIES
TIXTORES & ACCESSORIES	FINTURES & ACCESSORIES
LAB CENTER TABLE WITH END SINK	LAB CENTER TABLE WITH END SINK 2units
Dim. 3600mm L x 1200mm W x 850mm H	
LAB SIDE TABLE WITH 2 SINKS (L-shape)	Dim. 3600mm L x 1200mm W x 850mm H
Dim 3090mm (side A) x 7480mm (Side B) L x 650mm W x	LAB SIDE TABLE WITH 2 SINKS (L-shape) 1 unit
850mm H	Dim. 3090mm (Side A) x 7480mm (Side B) L x 650mm W x
	850mm H
FUMEHOOD (Model 1200)	DISPLAY CABINET 3 units
Dim. 1200mm x W 760mm D x 2400mm H	Dim 1200mm L x 500mm W x 2100 H
DISPLAY CABINET	LAB SIDE TABLE 2 units
Dim 1200mm L x 500mm W x 2100 H	Dim. 1680mm L x 650mm W x 850mmH
LAB TABLE WITH 1 SINK	LABORATORY STOOLS 30 units
Dim. 2440mm L x 650mm W x 850mm H	Dim 300mm dia x 550mm H
LAB SIDE TABLE	EYEWASH COMBINED WITH SHOWER 1 unit
Dim. 1680mm L x 650mm W x 850mmH	
LABORATORY STOOLS	Accessories:
	Glasswares Quantity (pcs)

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Erfemmeyer (125, 250 capacity) 50 each VEWASH COMBINED WITH SHOWER - KCAR Graduated Q(inder (12, 05, 010, 00, 20, 500, 1L) 10 each MATERIAL SPECIFICATIONS Reagent Bottles Care (500ml) 10 LAB COUNTER TOP And Resistant, heat resistant and stain resistant 0 One piece molded resin counter top bullinose edge finished Base Burets Soml 10 0 LAB SINK BOWL Base Burets Soml 10 Deinized Water bottle 10 LAB SINK BOWL Test tubes mellum 100 Test tubes mellum 100 LAB SINK BOWL Test tubes mellum 100 Test tubes mellum 100 LAB SINK BOWL Test tubes mellum 100 Test tubes mellum 100 Acid Resistant, heat resistant and stain resistant Tot base dege and corners with drain Test tubes mellum 100 Test tubes rack 40 and 60 holes 10 each Acrylic Clear glass baord 3/8" thick machine cut with Founded corners and polished edge crystal finished. 19 Acrylic Clear glass baord 3/8" thick machine cut with Solid brass construction, high gloss epoxy powder, resistant Acid Resistant, heat resistant and stain resistant Growm W x 450mm H LAB SINK BOWL Acid Resistant, heat resistant and st		
EYEWASH COMBINED WITH SHOWER - KC4R Graduated Cylinder (10, 50, 100 ml) 20 each MATERIAL SPECIFICATIONS Reagent Bottles Clear (5500ml) 10 Add Resistant, heat resistant and stain resistant Add Burets S0ml 10 Reagent Bottles Amber (500mml) 10 Add Resistant, heat resistant and stain resistant Add Burets S0ml 10 Base Burettes S0 ml 10 Add Resistant, heat resistant and stain resistant One piece molded resin sink (300mm deep type) and drain board, samless and rounded edges and corners with drain fritings and polyind p. trap Vash bottles plastic 10 LAB SINK BOWL Deeloce molded resin sink (300mm deep type) and drain board, samless board 3/8" thick machine cut with rounded corners and polished edge crystal finished. J9 Page flanged type white ABS % OX 8" L epoxy coated steel Add Resistant, heat resistant and stain resistant Tom tickness finish LAB SINK BOWL Add Resistant, heat resistant and stain resistant Tom tickness finish Sam thickness finish Board Astainess noutruction, high gloss epoxy powder, resistant Tome piece molded resin sink (300mm deep type) and drain brack-stain stain resistant and stain resistant One piece molded resin sink (300mm deep type) and drain frain brack-stain stain fresistant and stain resistant Goard Aster Astends Fignonnic, high gloss epoxy powder, resistant One piece molded resin sink (300mm deep type) and drain brack-stain stain fresist	Dim 300mm dia x 550mm H	(, , , ,)
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polarized grounding receptacle rated for 220VACfianged type white ABS ½ OD x 8° L epoxy coated steel brackets and stainless mounting bolts and nuts. Dim 600mm W 450mm HLAB BASE CABINET Main Carcass - epoxy type coated marine plywood 18mm thick for sidings and bottom plate and 6mm thick for backing Drawer face - epoxy coated marine plywood with grab handle concealed hinges swing type with self-closing mechanismLAB FIXTURES (WATER AND GAS FITTINGS) Solid brass construction, high gloss epoxy powder, resistant to most chemicals. UV fading and heat. Water static pressure max 10 bar. Detachable brass serrated nozzle, splash controlled water filter attached. Ergonomic, high grade PP Knob handle. With 3600 swing gooseneck spoutLAB FIXTURES (Electrical outlets) Two gang box, removable face plate and duplex 3- wired polarized grounding receptacle rated for 220VACLAB BASE CABINET Moin Carcass - epoxy toated marine plywood with plated metal toxBaseboard assembly – epoxy coated marine plywood base board panel with adjustable leveler.Main Carcass - epoxy coated marine plywood with gradeMain Carcass - epoxy coated marine plywood with plated metal toxBaseboard assembly – epoxy coated marine plywood base board panel with adjustable leveler.Main Carcass - epoxy coated marine plywood with grab handle concealed hinges swing type with self-closing mechanismMin Carcass - epoxy coated marine plywood with grab handleDrawer box - epoxy coated marine plywood with grab handleDrawer box - epoxy coated marine plywood with grab handleDrawer box - epoxy coated marine plywood with grab handleDoor Panels - epoxy coated marine plywood with grab handle <tr< td=""><td></td><td></td></tr<>		
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41. SPLIT TYPE AIRCON WALL MOUNTED 2HP

Cooling Capacity (Kj/hr) 2,080 - 20,000 Power supply (V-ph-Hz): 230V, 60Hz, 1Ph Power Consumption (W) 145 - 1,530 Energy Efficiency Ratio (EER) (Kj/W-hr) 14.3 - 9.8 Rating Current (A) 1.3 - 7.0Refrigerant type (g) R410A Air flow (high/med/low) (m3/h) 500 / 390 / 300 Sound pressure level 40/35/31 Weight (kg) 9.0/12.0 Indoor Dimension (W*H*D) (mm) 812 x 192 x 300

Outdoor Dimension (W*H*D) (mm) 770 x 300 x 555 Recommended Cooling Area 21 to 28 sam

41. SPLIT TYPE AIRCON WALL MOUNTED 2HP

Cooling Capacity (Kj/hr) 2,080 - 20,000 Power supply (V-ph-Hz): 230V, 60Hz, 1Ph Power Consumption (W) 145 – 1,530 Energy Efficiency Ratio (EER) (Kj/W-hr) 14.3 - 9.8Rating Current (A) 1.3 - 7.0Refrigerant type (g) R410A Air flow (high/med/low) (m3/h) 500 / 390 / 300 Sound pressure level 40/35/31 Weight (kg) 9.0 / 12.0 Indoor Dimension (W*H*D) (mm) 812 x 192 x 300 Outdoor Dimension (W*H*D) (mm) 770 x 300 x 555

Recommended Cooling Area

21 to 28 sqm

For guidance and information of all concerned.

EPHRAIM L. CALOPE

BAC Chairperson Date: February 5, 2020

LOT 1 – SCIENCE LABORATORY EQUIPMENT

1. ANALYTICAL BALANCE

Technical data:

Construction

- Casing material: Plastic
- Dimensions housing (WxDxH): 210 mm x 340 mm x 325 mm
- Gross weight: 9 kg
- Net weight: 6 kg
- Level indicator
- Material weighing plate: stainless steel
- Revolving screw feet
- Weighing space (WxDxH): 174 mm x 162 mm x 227 mm
- Weighing surface (d): 91

Display

• Display digit height: 1,400 cm

Power supply

• Input voltage: 110 V - 230 V AC

Functions

- Counting function
- Function to save totals
- Mixture function
- Net total function
- Percentage determination
- Standby function
- Weighing with tolerance range

Measuring system

- Adjustment options: External calibration
- Linearity: 0,300 mg
- Readout [d]: 0,100 mg
- Recommended adjusting weight: 200 g (E2)
- Reproducibility: 0,200 mg
- Stabilisation time: 3 s
- Weighing range [Max]: 220 g
- Weighing units: g ct mg

Environmental conditions

- Maximum humidity: 85 %
- Maximum operating temperature: 30 °C
- Minimum ambient temperature: 10 °C
- Minimum humidity: 20 %

Counting

- Counting resolution: 220000
- Mininum piece weight at piece counting: 1 mg
- Reference quantity: 5 10 20 50 100

2. PRESSURE COOKER

Material: Aluminum

Liquid Capacity (Qts.): at least 20L

Inside Diameter, Inches: 12.5

Inside Height, Inches: 14

The professional quality deluxe cast aluminum Pressure Cooker / Canner with the

exclusive ""Metal-To-Metal"" seal

Does not use gaskets with ""Metal-To-Metal"" seal

Size: 38H x 42W x 38D cm

Weight: 10 kg

3. DEEP FREEZER

External siz	e (W*D*H) mm	1350*735*880			
Capacity		358L			
Temp. Rang	ge	-10°C~-25°C			
Temp. Accu	iracy	0.1°C (When the temperature is -10° C ~ -20° C), 1°C (When the temperature			
Construct Cons	t	is -20° C ~ -25° C)			
Control Sys	tem	Microprocessor control & LED display			
Alarm		High or low temperature alarm, Temperature sensor failure alarm			
Refrigeration type		Direct refrigeration			
Refrigerant		R600a, CFC free			
Condenser & Evaporator		Internal-mounted condenser and coil type evaporator			
	Structure	Whole foaming, freon cyclopentane/isopentane high density polyurethane			
Constructio	Structure	foam			
	Internal Material	Aluminum			
	External Material	Cold-rolled steel coated with anti-bacteria powder			
Basket		1pc			
Consumptio	on	240W			
PowerSupp	ly	AC220V±10%,50HZ			
PackageSize(W*D*H)		1420*780*945			
GrossWeigl	nt	69kg			

4. VISCOMETER with small adapter

Measured Range(mPa·s)	100 ~ 6,000,000
Rotation Speed(rpm)	0.1,0.3,0.6, 1.5, 3, 6, 12, 30, 60
Number of Spindle	4 types(L1~L4)
Measurement Accuracy	±3%(FS)(Newtonian Fluid)
Repeatability	±0.5%(FS)(Newtonian Fluid)
PowerSupply	AC220V±10%, 50/60HZ;
Standard accessory	
Optional accessory	RTD temperature probe
L0spindle is for Option	
Measured Range (mPa.s)	10~6000
Package Size	470*395*245

8.5kg

G.W.

5. HOTPLATE MAGNETIC STIRRER

Number of Stirring Positions	1
Top Size	4.62 x 11 x 15.37 inches
Power	230V, 50Hz
Amperage	4.9
Watts	1113
Stir Range	60 rpm
Temperature Range	5 to 550° C (41 to 1022°F)
Dimensions L x W x H	40.1 x 26.9 x 12.2 cm (approx.)

6. SCALE BALANCE/TOP LOADING BALANCE

Measuring system Adjustment options: External calibration Linearity: 30 mg n/a: 20 g Readout [d]: 10 mg Recommended adjusting weight: 1 kg (F1) Reproducibility: 10 mg Resolution: 100000 Stabilisation time: 3 s Warm up time: 2 h Weighing range [Max]: 1 kg Weighing system: Strain gauge Weighing units: ct dwt g gn lb mo oz ozt tl (HK) tl (Tw) tol Display Display digit height: 1,500 cm Counting Counting resolution: 50000 Mininum piece weight at piece counting (Laboratory: 20 mg Mininum piece weight at piece counting (Normal): 200 mg Functions Counting function: yes Percentage determination: yes Suspended weighing: Hook Vibration-free weighing (Animal weighing program): yes

7. LABORATORY REFRIGERATOR

External Size(W*D*H) mm		500*550*1300
Capacity		130L
Temp. Range		2°C~8°C
Temp. Accuracy		0.1°C
Control System		Microprocessor Control, Large Screen LED Display
Alarm		Audible and visual alarm for: High and low temperature, Power failure alarm,
		Sensor failure, Door ajar
Refrigeration Type		Forced air refrigeration system
Refrigerant		R600a, CFC Free
Condenser & Evaporator		Bundy tube condenser
Defrost		Auto defrost
Door		Glass door with heat reflection film
	Structure	Unibody Design & Mono-assembly foaming (Rigid polyurethane insulation
	Structure	material)
Construction		Embossed aluminum sheet
	Material	
	External	РСМ
	Material	

Shelves	4 pcs
Door	Glass door with heat reflection film
Consumption	136W
Power Supply	AC110/220V±10%, 50/60Hz
Chan dand Assessme	LED Lamp, shelves, door keys, USB port, probe access port(BPR-5V588 & BPR-
Standard Accessory	5V1000)
Optional Accessory	Temperature recorder
Package Size(W*D*H)mm	590*595*1380
Gross weight	51kg

8. MULTIPARAMETER WATER QUALITY METER

Range (pH)	-2.000 to 20.000pH
Resolution (pH)	0.1, 0.01, 0.001pH
Accuracy (pH)	±0.002pH
Range (mV)	±2000.0mV
Range (Relative mV)	±2000.0mV
Range (ORP)	±2000.0mV
Resolution (mV)	0.1mV
Accuracy (mV)	± 0.2 mV or $\pm 0.05\%$ of reading whichever is greater
Range (ISE)	0.0001 to 19900 with selectable units of ppm, Molar, mg/L, %, ppb or none
Resolution (ISE)	0.0001 minimum, 1 to 3 significant digits (user selectable)
Accuracy (ISE)	± 0.2 mV or $\pm 0.05\%$ of reading whichever is greater
Advanced ISE Functions	Segmented (point-to-point) slope, non-linear selectable auto- blank, low concentration range stability
Isopotential Point	7.000pH
Range (Conductivity)	0.001 μS/cm to 3000 mS/cm
Resolution (Conductivity)	0.001 μS minimum, auto ranging up to 4 significant digits
Accuracy (Conductivity)	0.5% of reading ±1 digit > 3 $\mu\text{S};$ 0.5% of reading ±0.01 μS \leq 3 μS

Range (TDS)	0.001 to 200.0 ppm
Resolution (TDS)	0.001 ppm minimum, auto ranging up to 4 significant digits
Accuracy (TDS)	0.5% of reading ±1 digit
TDS Factor Range	Linear (0.02 to 9.99)
Range (Salinity)	0.06 to 80.00 psu, 0.05 to 42.00 ppt
Resolution (Salinity)	0.01 psu or 0.01 ppt minimum, auto ranging
Accuracy (Salinity)	0.5% of reading ±1 digit
Salinity Measurement Modes	Practical salinity (psu) or natural sea water (ppt)
Range (Resistivity)	2 ohm to 100.0 meg-ohm
Resolution (Resistivity)	1 ohm or 0.1 meg-ohm, auto ranging
Accuracy (Resistivity)	0.5% of reading ±1 digit
Cell Constant	0.001 to 199.9cm-1
Temperature Compensation	Linear, nLFn (non-linear ultra pure water), nLFu (non-linear ultra pure degassed water), EP (off with warning) or off
Temperature (Metric) Reference	5, 10, 15, 20, 25°C
Range (Polarographic DO)	0.00 to 90.00mg/L
Resolution (Polarographic DO)	0.01, 0.1mg/L
Accuracy (Polarographic DO)	± 0.2 mg/L or $\pm 2\%$ of reading, whichever is greater
Range (RDO)	0.00 to 50.00mg/L
Resolution (RDO)	0.01, 0.1mg/L
Accuracy (RDO)	±0.1mg/L up to 8mg/L, ±0.2mg/L from 8 to 20mg/L, ±10% of reading up to 50mg/L
Percent Saturation Range (Polarographic DO)	0.0 to 600.0 % saturation
Percent Saturation Range (RDO)	0.0 to 500.0 % saturation
Percent Saturation Relative Accuracy (Polarographic DO)	± 2 % saturation or ± 2 % of reading whichever is greater

Percent Saturation Relative Accuracy (RDO)	± 2 % saturation ≤ 200 % saturation, ± 10 % saturation > 200 % saturation
Percent Saturation Resolution (Polarographic DO)	0.1, 1 % saturation
Percent Saturation Resolution (RDO)	0.1, 1 % saturation
Barometric Pressure Correction	400 to 850mmHg, automatic using built-in barometer or manual entry
Pressure Range	400 to 850mmHg
Pressure Resolution	1mmHg
Accuracy (Barometer)	±6mmHg
Salinity Factor	0.0 to 45.0 ppt, automatic correction using conductivity reading or manual entry of sample salinity
Calibration	pH with calibration editing option, ion concentration (ISE) with calibration editing option, relative mV (RmV), ORP, conductivity with calibration editing option, dissolved oxygen and temperature
Calibration Points	1 point relative mV (RmV) mode, 1 point ORP mode
Calibration Points (ISE)	1 to 5
Calibration Points (ISE) Calibration Points (Conductivity)	1 to 5 Up to 5
Calibration Points (Conductivity)	Up to 5 Water-saturated air, air-saturated water, manual (Winkler
Calibration Points (Conductivity) Calibration Modes	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point
Calibration Points (Conductivity) Calibration Modes Range (Temperature)	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point -5.0° to 105.0° C, 22.0° to 221.0° F
Calibration Points (Conductivity) Calibration Modes Range (Temperature) Resolution (Temperature)	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point -5.0° to 105.0° C, 22.0° to 221.0° F 0.1°C, 0.1°F
Calibration Points (Conductivity) Calibration Modes Range (Temperature) Resolution (Temperature) Accuracy (Temperature)	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point -5.0° to 105.0° C, 22.0° to 221.0° F 0.1°C, 0.1°F ±0.1°C
Calibration Points (Conductivity) Calibration Modes Range (Temperature) Resolution (Temperature) Accuracy (Temperature) Temperature Selection	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point -5.0° to 105.0° C, 22.0° to 221.0° F 0.1°C, 0.1°F ±0.1°C Manual or automatic with ATC temperature probe
Calibration Points (Conductivity) Calibration Modes Range (Temperature) Resolution (Temperature) Accuracy (Temperature) Temperature Selection Temperature Probe Calibration	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point -5.0° to 105.0° C, 22.0° to 221.0° F 0.1°C, 0.1°F ±0.1°C Manual or automatic with ATC temperature probe 1 point temperature offset calibration
Calibration Points (Conductivity) Calibration Modes Range (Temperature) Resolution (Temperature) Accuracy (Temperature) Temperature Selection Temperature Probe Calibration Channels	Up to 5 Water-saturated air, air-saturated water, manual (Winkler titration), zero point -5.0° to 105.0° C, 22.0° to 221.0° F 0.1°C, 0.1°F ±0.1°C Manual or automatic with ATC temperature probe 1 point temperature offset calibration 3

Keypad	Comprehensive with menu-specific function keys and dual purpose scroll/shortcut keys
Measurement Modes	pH, mV, relative mV (RmV) or ORP with temperature; conductivity, TDS, salinity or resistivity with temperature; dissolved oxygen as % saturation or mg/L with temperature and barometric pressure
Stability	Selectable fast, medium, slow or Smart Stability setting; Selectable off or Automatic Smart averaging setting
Data Management Details	Transfer single, range or all data points to printer or computer
Data Points	5000 with date and time stamp
Log Function Type	Automatic data logging with Auto-Read and Timed measure modes; manual data logging with Continuous measure mode
Memory	Non-volatile memory preserves data log, calibration log and meter settings
Alarm Output	High/low limit alarm, calibration due alarm
Languages	English, Spanish, French, Italian, German and Chinese; Portuguese and Korean available with software update
Inputs	BNC (pH or ORP electrode), pin-tip (reference electrode), 8 pin MiniDIN (conductivity sensor with built-in temperature or ATC temperature probe), 9 pin MiniDIN (RDO optical or polarographic DO sensor with built-in temperature)
Outputs	USB, RS232
Power Supply	4 AA batteries (included) or universal AC adapter (sold separately)
AC Adapter	Universal 50-60 Hz, 100-240 VAC power adapter (sold separately, Cat. No. 1010003)
Battery Life	800 hours
Battery Type	Four AA (included)
IP Rating	IP-67
Certifications/Compliance	CE, TUV 3-1, FCC Class A
Temperature (English) Operating	41° to 113°F (ambient)
Temperature (Metric) Operating	5° to 45° C (ambient)

Relative Humidity Range	5 to 85 %, non-condensing
Dimensions (L x W x H)	24cm x 10cm x 6.5cm (9.5 in. x 3.9 in. x 2.6 in.)
Weight (English)	1.2 lb.
Weight (Metric)	0.5kg
Calibration Points (pH)	1 to 5
Methods	10 per channel with password protection
Warranty	3 year meter warranty
Unit Size	Each

9. MICROSCOPE (TRINOCULAR)

Trinocu	lar I	LED

Viewing Head: Seiddentop Bonocular Head, inclined at least 30-35 degree Interpupilary Distance: at least 45-75 mm Eyepiece: High Quality, anti fungus field eyepiece Objective: Automatic Objective 4 x 10 x 40 x 100x anti fungal coated Nosepiece: Backward Quadruple Nosepiece Stage: Double Layer Mechanical Stage of at least 132 x 142 mm/ 75 x 40mm Focusing Coaxial Coarse and fine adjustment, moving range 24 mm Fine Division: 0.004 mm Condenser: 0 with Iris Diaphragm & Filter Illumination: S-LED Brightness Adjustable, white light Memory at least 32 gb Inclusion: Camera, viewing panel/monitor Manual, Lock screw, Black cap (small) & (big), Allen Wrench, Dust Cover, Objective Case, Rubber Eyepiece, Cord Holder, AC Cord, Thumb Screw Moticam 3 plus (New) includes: Manual, Dust Cap, Focusable lens, Eyepiece adapter, C-Ring, USB cable, calibration slide, macro tube, centering guide, software, Laptop Monitor 0.5X C mount camera Adapter for 1/2" Chip Sensors

10. pH meter

C Adapter	Universal 50-60 Hz, 100-240 VAC power adapter
Accuracy (pH)	±0.002pH
Alarm Output	High/low limit alarm, calibration due alarm
Battery Life	800 hr.
Calibration	pH with calibration editing option, relative mV (RmV), ORP
	and temperature
Certifications/Compliance	CE, TUV 3-1, FCC Class A
Data Management Details	Transfer single, range or all data points to printer or
	computer
Display Type	LCD (Graphic with Backlight)
Accuracy (mV)	\pm 0.2 mV or \pm 0.05% of reading whichever is greater
Accuracy (Temperature)	±0.1°C
Backlight Option	Yes, selectable
Battery Type	4 x AA (sold separately)
Calibration Points	1 to 5
Channels	1
Data Points	2000 with Date and Time Stamp
Dimensions (L x W x H)	24cm x 18cm x 11cm (9.5 in. x 7.1 in. x 4.3 in.)

11. PIPETTE SET

UV Resistant with vertical stand Single Channel, Variable Volume: 0.2-2 ul, 0.5-10 ul, 2-20 ul, 10-100ul, 20- 200 ul, 100-100ul

12. HI TEMP DATA LOGGER with accessories

Memory	65,536 readings
Reading Rate	1 reading every second up to 1 reading every 24 hours
Baud Rate	125,000
Battery Life	1 year typical (1 minute reading rate at 25 °C/77 °F)
Material	316 Stainless Steel

13. WATER ACTIVITY METER

Measurement		Range	Resolutior	Accuracy	
РН		0 to 14 PH	0.01 PH	± (0.02 PH + 2 d)	
mV		0 to 1999 mV	1 mV	± (0.5% + 2 d)	
	μS	0 to 200.0 μS	0.1 µS		
Conductivity		0.2 to 2.000 mS	0.001 mS	± (2% F.S. + 1 d)	
	mS	2 to 20.00 mS	0.01 mS		
		20 to 200.0 mS	0.1 mS		
		0 to 132 PPM	0.1 PPM		
		132 to 1,320 PPM	1 PPM		
Total Dissolved Solids		1,320 to 13,200 PPM	10 PPM	± (2% F.S. + 1 d)	
		13,200 to 132,000 PPM	100 PPM		
Temperature		0 to 60ºC	0.1ºC	± 0.8ºC	
Salt		0 to 12% salt	0.01% salt	± 0.5% salt	
Dissolved	mg/ L	0 to 20.0 mg/L	0.1 mg/L	± 0.4 mg/L	
oxygen	% O ₂	0 to 100.0% O ₂	0.1% O ₂	± 0.7% O ₂	
Circuit		Custom one-chip of n	Custom one-chip of microprocessor LSI circuit		
Sampling time		1 second	1 second		
Data storage		SD memory card 1 to	SD memory card 1 to 16 GB		
Interface		RS232, USB PC interfa	RS232, USB PC interface		
Functions		Data hold, Record ma	Data hold, Record max./ min., Auto power off		
Power requirement	Power requirement		Battery AA x 6		
Dimensions/ Weight		177 x 68 x 45 mm/ 48	177 x 68 x 45 mm/ 489 g		

14. COLORIMETER

Illuminating/Viewing Geometry	8/d
Measuring Aperture	Φ4mm
Detector	Silicon photoelectric diode
Color Space	CIEL*a*b*C*h* CIEL*a*b*
Color Difference Formula	ΔE*ab ΔL*a*b ΔE*C*h
Light Source	D65
Light Source Device	LED blue light excitation
Display	TFT LCD
Errors Between Each Equipment	≤0.80∆E*ab
Storage	100pcs standards, 5000pcs samples
Repeatability	Standard deviation within ∆E*ab 0.08 Average of 30 measurements of standard white plate
Lamp Life	3 years, more than 1 million time
Charging Time	8 hours-100% electricity
Measurement Times Before Recharging	3000 times in 8 hours
Ambient Temp./Humidity Range	-10~40ºC, relative humidity 0~85% without condensation
Data Interface	USB
Optional Accessory	Miniature thermal printer, Powder test box
Power Supply	Rechargeable li-ion battery 3.7V@3200mAh
External Size(W*D*H)	205×67×80mm
	203~07~0011111
Package Size(W*D*H)	450*230*380mm
Package Size(W*D*H) Net Weight	

15. VACUUM OVEN

Capacity	25L
Temp.Range	50~200°C
Temp. Fluctuation	±1°C
Vacuum Degree	<133 Pa

Vacuum C	ontrol
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Shelves No.	1 pc	
Power Consumption	500W	
Power Supply	AC110V/220V±10%,50/60Hz	
Internal Size (W*D*H)mm	300*300*280	
External Size (W*D*H)mm	580*570*450	
Packing Size (W*D*H)mm	740*620*640	
Gross Weight (kg)	50	

16. KJELDAHL ANALYZER (titration and distillation)

Water Consumption	1.5L/Min		
Ambient Temperature	5~40ºC		
Ambient Humidity	80%		
Measure Range	0.1mg~200mg		
Analysis Time	5~10min		
Recovery Ratio	≥99.5%		
Sample Amount	Solid ≤ 5g; Liquid ≤20ml		
Burette Accuracy	2µL/ step		
Reproducibility	±0.5%		
Consumption	2000W		
Power Supply	AC110/220 V±10%, 60/50Hz		
Packing size(W*D*H)	455*391*730mm 38kg		
Gross weight	Main body: 52.7kg 12.5kg		

17. MUNSELL BOOK OF COLOR

18. DIFFERENTIAL SCANNING CALORIMETER

Temperature range (max.)	-170°C to 600°C
Max. cooling rate/max. heating rate	500 K/min
Measuring range/ weighing range (max.)	± 750 mW

Enthalpy accuracy	< 1%
TGA resolution	n/a
Indium Response Ratio (*)	> 100
Exchangeable sensors	n/a
Cooling options	 Air compressor: RT to 600°C Compressed air: < 0°C to 600°C Intracooler: -70°C to 600°C Liquid nitrogen: -170°C to 700°C
Gas atmospheres	Inert, oxidizing, static and dynamic
Mass flow controller for purge/protective gas	3, integrated (0 to 250 ml/min)
Gas flow regulation	Software-controlled
Automatic Sample Changer (ASC)	Yes (optional)
Software	min. Proteus [®] 8
Proteus [®] software extensions included	- SmartMode - ExpertMode - AutoCalibration - (Advanced) BeFlat [®] - AutoEvaluation - Identify
Proteus [®] software extensions (optional)	- Temperature modulation - Specific heat capacity (c _p) - Proteus [®] Protect - Purity Determination
Advanced Software extensions (optional)	- Peak Separatioin
	- Kinetics Neo
	- Thermal Simulations
Size (W x H x D) – incl. ASC, without physical connections	350 mm x 445 mm x 560 mm

19. CONSISTOMETER

Determines consistency of almost any viscous substance by measuring the distance a material flows under its own weight during a given time interval Specifications: L x W x H $35.6 \times 8.9 \times 14 \text{ cm} (14x3 \frac{1}{2} \times 5 \frac{1}{2})$

20. ROTARY EVAPORATOR with accessories

Lift	Hand lift or Motor lift
Rotation speed range	10 - 280 rpm
Rotation speed indicator	3.5" LCD Display
Heating capacity	1,300 W
Overheat protection bath	cut-off at 5 °C over set temperature via separate PT 1000
Bath temperature setting	3.5" LCD Display
Heating bath temperature control	electronic / digital
Max. size evaporating flask	5 L
Condensing surface	1,400 cm ²
Condensing surface XL condenser	2,200 cm ²

21. SOLVENT FILTRATION ASSEMBLY WITH SINGLE PUMP

Fun	nel	Pore Size of Filter	Material Support Screen	Receiving Bottle	Membrane
500	Dml	10 µm	glass	2000ml	Ф60mm

Standard Accessories:

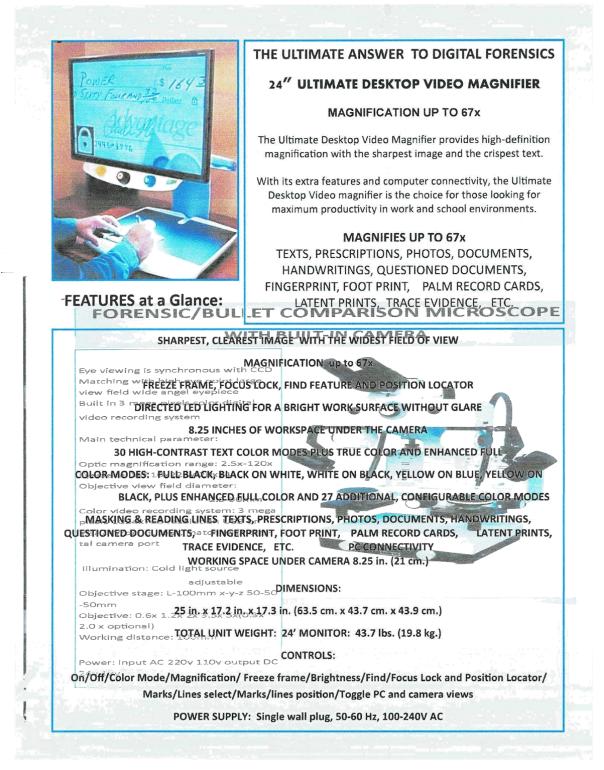
Solvent Filter system consists of solvent filter

Filter include:

- * Triangle fluid bottle
- * Core filter head
- * Filter bowl
- * Clamp
- * Dust cover
- * Rubber hose
- * Hose linker

Single Vacuum Pump

22. FORENSIC/BULLET MICROSCOPE



23. LABORATORY OVEN

Max temp (°C)	250
Min temp (°C)	Ambient +30
Temp uniformity (°C)	±5.0 @ 250°C
Heat-up time (mins)	23
Recovery time (mins)	3
Dimensions:	295 x 300 x 320
Internal H x W x D (mm)	
Dimensions:	440 x 590 x 465
External H x W x D (mm)	
Shelves fitted / accepted	43500
Shelf loading each / total (kg)	43758
Volume (litres)	28
Air changes / hr	65
Max power (W)	1000
Holding power (W)	342
Weight (kg)	24

24. FAT ANALYZER/EXTRACTOR

Temp. Range	RT +5° C ~300° C	
Measuring Range	0~100%	
Temperature Accuracy	±1°C	
Sample Weight	0.5~15g(generally 2~5g, depending on sample)	
Capacity	6pcs/batch	
Solvent Cup Volume	80ml	
Solvent Recovery	≥80%	
Consumption	1KW	
Power Supply	AC 220V±10%, 50HZ	
External Size(W*D*H)	650*320*715mm	
Package Size(W*D*H)	735*410*880mm	
Gross Weight	54.5kg	

25. PORTABLE TOXICITY ANALYZER

Displays Up To 5 Gases
• LEL (PPM Optional)

- Oxygen
- Carbon Monoxide
- Hydrogen Sulfide
- Hydrogen Cyanide (Optional)

Sensor Specifications

Туре	Resolution	Range	Accuracy	Response T90 Times
LEL	0.1%	0-100%	±10%	< 10% Sec
Oxygen	0.1%	25%	±2% or 10%**	< 10% Sec
Carbon Monoxide	1 ppm	0-999*	±5 ppm or 10%**	< 10% Sec
Hydrogen Sulfide	1 ppm	0-100 ppm	±2 ppm or 10%**	< 20% Sec
Hydrogen Cyanide	0.1 ppm	0-30	±1 ppm or 10%**	< 20% Sec
Nitrogen Dioxide	1 ppm	0-250	±2 ppm or 10%**	< 20% Sec
Sulfur Dioxide	0.1 ppm	0-20	±1 ppm or 10%**	< 20% Sec
Phosphine	0.1 ppm	0-10	±1 ppm or 10%**	< 20% Sec
Ethylene Oxide	0.1 ppm	0-10	±1 ppm or 10%**	< 20% Sec

26. LABORATORY INCUBATOR

Chamber Temperature range	Stainless steel SUS#304 Ambient + 5ºC to 75ºC (Adjustable)
Control system	Microprocessor controlled system
Temperature control	PID
Temperature display	Digital LED
Sensor	PT-100
Standard Accessory	2 stainless steel shelves, interval is adjustable
Capacity available	16L
Timer	Mechanical, 180min + HOLD
Temperature setting/Display	Digital LED
Temperature uniformity	±2ºC at 37ºC
Temperature stability	±0.1ºC at 37ºC
Resolution	0.1ºC
Over-heat alarm & shutout	Yes, 4⁰C above the set point
Air convection	Natural convection
Air vent	Yes
Quality standard	ISO, CE, GMP, FDA, Japan

27. VIDEO SPECTRAL COMPARATOR

Light sources*		
	incident	
	2 oblique	
White	23 oblique for hologram examination	
White	external oblique	
	coaxial	
	bottom with adjustable intensity	
		254
	incident	313
Ultraviolet, nm		365
		400
	bottom (external)	365
		700
infrared, nm	incident	870
		950

	2 oblique	870
	bottom with adjustable intensity	870
high-intensity incident, nm	royal blue	450
	blue	470
	cyan	505
	green	530
	amber	590

* – all light sources are LEDs except ultraviolet 313, 254 nm

Specifications			
Video camera	video signal type and resolution		4 Mp, CMOS, USB (YUV)
	magnification, times:	optical	20
		digital	2
		on-screen	100*
	maximum field of view, mm		202×113
Video output parameter	maximum resolution, pixels		1920×1080 (Full HD)
	frame rate with maximum resolution, frame/sec		25
Connection interface			USB 3.0

* – all magnifications are approximate and based upon a 24 inch monitor Camera filters:

- fixed with bandpass, nm 420-1100
- automatically installed with threshold, nm:
 - o IR low-pass 700
 - o IR high-pass 600, 650, 700

RFID reader:

- standards ISO 14443: A and B types of RFID tags
- PC/SC-protocol support
- data exchange rate, Kbaud 106, 212, 424, 848
- reading an RFID tag regardless of its position in the document
- anticollision: reading an RFID tag according to the MRZ

Maximum document size, mm - 210×300 (A4)

OS — Microsoft Windows XP (SP3), Windows Vista, Windows 7, Windows 8, Windows 10

ICAO MRZ reading for ID-1, ID-2, ID-3 documents — Yes

RFID reader (ISO 14443) — Yes (built-in)

1D and 2D Barcodes — Yes

QR — Yes

Hidden image (IPI) — Yes

Dimensions (length×width×height), mm — 380×260×420

Weight, kg — 10,5

Power supply, V - 12 \pm 2

Power consumption, W-60

Optionally: power supply through vehicle on-board system 12 V

PC requirements

- Minimum configuration:
 - OS Microsoft Windows 7 (Service Pack 1)
 - o processor Intel[®] Core[™] i5 3.0 GHz
 - RAM, GB 4
 - \circ minimum free disk space, GB 1
 - o display resolution, pixels 1600×1200
 - connection interface USB 3.0
- Recommended configuration:
 - OS Microsoft Windows 7 (Service Pack 1)
 - o processor Intel[®] Core[™] i7 3.4 GHz
 - RAM, GB 16
 - o minimum free disk space, GB 1
 - o display resolution, pixels 1920×1200 or higher
 - o connection interface USB 3.0

28. COMPUTERIZED POLYGRAPH WITH ACCESSORIES

Size: 7 3/8"W x 2 3/4"D x 1 3/8"H (20cm x 6.98cm x 3.49cm)

Weight: 0.52 lbs (235g)

Power Requirements: Receives all required power through USB connection

Transfer rate: Up to 360 samples per second/channel

Resolution: 24-bit analog to digital conversion

Temperature:

Operating: 50 to 95 degrees F (10 to 35 degrees C)

Storage: -40 to 115 degrees F (-40 to 46.1 degrees C)

Relative Humidity: 20% to 80% non-condensating
LX5000 Sensor Channels:

Cardio Channel: 0 to 140 mmHg
Pneumatic Pneumo Channels: upper and lower chest assembly with extended pressure range
EDA Channels: GSR: 4 μA constant current, range of 10 kΩ to 2.3 MΩ; GSC: range of 5 kΩ to
4.0 MΩ; Isolation: 2 KV RMS

PPG Channel: PPG finger clip: 0.47 second time constant, 635 nm
Activity Sensor Channels: 0 to 4 V Analog Input

29. DIGITAL CENTRIFUGE

Dimension: 270 x 270x 250 mm Timer: Mechanical , 60min Power indicator : LED lamp Rotor : A-0815 for 8pcs x 15ml (10ml) testing tubes Speed : 4500rpm, Maximum

30. LABORATORY SHAKER

Shaking motion	Orbital / Linear
Motor type	Brushless DC motor
Max. load capacity(with platform) [kg]	7.5
Orbital diameter [mm]	5
Speed display	LED
Speed range [rpm]	30-500
Time display	LED
Time range	0-99H59Min
Operation type	Continuous / timed operation
Protection class acc. to DIN EN60529	IP21

Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	40
Dimensions [W x D x H, mm]	450 x 400 x 105
Weight [kg]	13.5 kg

31. DIGITAL WATER BATH

Tank: Capacity 10 L (1204F49) and 20 L (1204F50); Stainless steel reservoir, corrosion resistant; Temperature Setting: Digital; Temperature Readout: LED; Temperature Control: PID; Temperature Sensor: 100 ohm Platinum RTD; Temperature Range: Ambient + 5° to 100° C; Stability: +/- 0.2; Power: 110V (220V available); Accessories: Lid (flat or gabled), test tube rac

32. DESSICATOR WITH SILICA GEL

Description	Internal Volume	No of shelves	Height	1
Clear	1.2 cu. ft.	2	31.4cm (12.4")	

33. MOISTURE ANALYZER

IR moisture analyzer, Halogen Lamp Moisture Meter

100g

Back Light LCD

AC(110~240V) 50Hz/60Hz

3.3kg

34. MICROWAVE OVEN

33 Liters Inverter Microwave Oven 6 Quick & Easy Menus Reheat Options • 1,200 W Other Features Door Type Push Door Button Features Stylish glass door 320mm Carousel turntable Australian developed menus 9 Sensor cook menus 5 Sensor reheat menus 6 Quick and easy meal menus 4 Melt/soften menus 2 Express defrost menus 5 Easy defrost menus 11 Power levels Stylish stainless steel fascia More/less setting Instant cook/start Child lock Demonstration mode LCD display Alarm function

LOT 2 – SOIL ANALYSIS EQUIPMENT

- **₽**3,600,000.00

1. UV VIS SPECTROPHOTOMETER

QTY ITEM / DESCRIPTION

1 unit Double-beam UV-VIS Spectrophotometer and accessories

Specifications:

Wavelength range	190 to 1,100 nm
Spectral bandwidth	1.00 🛛 0.20 nm
Wavelength accuracy	<u>+</u> 0.1 nm (656.1 nm: D2), ፻0.3 nm (for entire
	wavelength range)
Wavelength repeatability	<u>+</u> 0.1 nm
Wavelength slew rate	14,500 nm/min
Wavelength scanning speed (normal sc	can): 3,000 to 2 nm/min
Wavelength scanning speed (survey sca	an): 29,000 nm/min
Light source switching	Automatic switching linked to the wavelength. The
	switching Wavelength can be set freely in the range
	of 295 to 364 nm.
Stray light	Less than 0.5 % (198 nm, KCl)
	Less than 0.02 % (220 nm, Nal)
	Less than 0.02 % (340 nm, NaNO2)
Photometric system	Double beam optics
Photometric range Absorbance:	-4 to 4 Abs, Transmittance: 0 to 400 %
Photometric accuracy	<u>+</u> 0.002 Abs (0.5 Abs)
	<u>+</u> 0.004 Abs (1 Abs)
	<u>+</u> 0.006 Abs (2 Abs)
	Measured using an NIST930D/NIST1930 or
	equivalent filter.
Photometric repeatability	<u>+</u> 0.0002 Abs (0.5 Abs)
	<u>+</u> 0.0002 Abs (1 Abs)
	<u>+</u> 0.0010 Abs (2 Abs)
Noise	Less than 0.00005 Abs (700 nm)
Baseline flatness	<u>+</u> 0.0006 Abs (190 to 1,100 nm)
	One hour after light source turned ON
Baseline stability	Within 0.0003 Abs/h (700 nm)
	One hour after light source turned ON
Light source	20 W halogen lamp, deuterium lamp
	Built-in automatic light source position adjustment
	mechanism

Monochromator	Czerny-Turner monochromator Blazed, holographic
	gratings used Detector Silicon photodiode
Sample compartment Internal dimension	ons: W110 🛛 D250 🖓 H115 nm
	Distance between light beams: 100 mm
Power requirements	100/120/220/230/240 V AC, 50/60 Hz, 140 VA
Environmental requirements	15 to 35 🛛 C
30 to 8	80 % (no condensation, 70 % max. at 30 🛛 C or higher)
Dimensions	W450 🛙 D501 🖻 H244 mm
Weight	16.6 kg
Output device	USB flash drive (option)
	Data files saved in text format or UVPC format
	UVPC-format files can be read directly by UVProbe.
Computer compatibility	UVProbe software (Ver.2.70) provided as standard
	External control is possible via USB.
Includes the following accessories:	

2 pieces	Square cell Quartz Cuvette, 10mm
1 set	Computer
1 set	printer
2 units	1KVA UPS

2. ATOMIC ABSORTION SPECTROPHOTOMETER

QTY ITEM/ DESCRIPTION

1 unit Atomic Absorption Spectrophotometer

Optics		
Wavelength range:	185.0 to 900.0 nm	
Monochromator:	Aberration-corrected Ca	zerny-Turner mounting
	No. of grating grooves:	1800lines/mm
	Focal length:	298mm
Bandwidth:	0.2, 0.7, 1.3, 2.0L nm (4	step automatic switching)
Detector:	Photomultiplier tube	
Optics:	Optical double-beam	
Background correction:	BGC-SR (High-speed sel ⁻	f-reversal method) (185.0 to 900.0
	nm)	
	BGC-D2 (D ₂ lamp metho	od) (185.0 to 430.0 nm)
Number of HC lamps:	6-lamp turret, 2 lamps warming up for the nex	simultaneously lit (1 for measurement, 1 t measurement)

Lamp mode:	EMISSION, NON-BGC, BGC-SR, and BGC-D2
Software requirements	: Microsoft Windows
Parameter settings:	Wizard method
Measurement mode:	Flame continuous method (standard), flame micro sampling
method	d (option), furnace method (option), flame emission method
Baseline correction:	Automatic correction of the baseline drift through offset
process	sing in peak height/ peak area mode
Sensitivity correction: A	utomatic calibration curve correction with sensitivity
	monitoring
Electronic records:	FDA 21 CFR 11 compliant
Power requirements:	230VA, 50/60Hz
Dimensions & Weight:	W 700 x D 588 x H 714mm, 72kg (not including the protruding
	parts

<i>Burner unit</i> Type: Burner head: Nebulizer: Chamber: Positioning control:	Air-cooled pre-mix type Made of titanium, 10cm slot (5cm slot for N ₂ O-C ₂ H ₂ flame available as an option) Pt-Ir capillary. PTFE orifice. Ceramic impact bead (capable of handling hydrofluoric acid) Engineering plastics Automatic search for the optimal burner height, automatic adjustment of vertical position, manual adjustment of back and forth position
<i>Gas control unit</i> Flow rate control:	Automatic fuel gas flow rate setting (0.1L/min step). Auto search of optimum gas flow rate
Safety measures:	 Automatic gas leak check. Automatic Air-N₂O switching as C₂H₂ flow rate increases. Flame monitor. Prevention of wrong burner head use. Gas pressure monitor. Drain tank level monitor. Automatic flame extinction upon power outage or sudden power interruption. Automatic flame extinction via flame vibration sensor. Internal fan stop sensor Total lamp lit time for lamp life management (GLP/GMP compliance)

• Capable of trace sample analysis using Micro Sampling: approximately 50 to 90 uL

Includes the following items

1 unit Branded Computer & Printe	
6 Pcs Lamps (Pd, Ni, Cu, Zn, Fe, Co	(k
1 unit Fumehood	
1 Pc Festo Filter	
1 Pc Regulator	
1 unit Compressor	
6 bots Standards	
10 Pcs Volumetric flask (100 mL)	
10 Pcs Volumetric Flask (50 mL)	
1 Pc Pipette (10-100 uL)	
1 unit 3KVA UPS	

LOT 3 – FURNITURE & FIXTURES and ACCESSORIES - ₱10,300,000.00

DESCRIPTION	Total no. of Units
CHEMISTRY TABLE	6
Dim 2400mm L x 800mm W x 850mm H	
DEMONSTRATION TABLE WITH GAS OUTLET	1
Dim 1680mm L x 600 mm W x 850mm H	
PLATFORM	1
Dim 4800mm L x 1650mm W x 160mm Elevation	
LABORATORY STOOLS	50
Dim 300mm dia x 550mm H	
EYEWASH COMBINED WITH SHOWER	1
FUMEHOOD	1
Dim 1000mm W x 760mm D x 2400mm H	
LAB SIDE TABLES WITH 6 SINKS	1
Dim 4880mm L x 650mm W x 850mm H	

1. CHEMISTRY LABORATORY TABLES, CABINET FIXTURES & ACCESSORIES PER SET

Accessories:

Glasswares	Quantity (pcs)
Beaker (25, 50, 100, 250 ml capacity)	50 each
Erlenmeyer (125, 250 capacity)	50 each
Graduated Cylinder (10, 50, 100 ml)	20 each
Volumetric Flask Clear (25,50, 100, 250, 500, 1L)	10 each
Reagent Bottles Clear (500ml)	10
Reagent Bottles Amber (500mml)	10
Acid Burets 50ml	10
Base Burettes 50 ml	10
Burette stand with Burette Clamp	5
Wash bottles plastic	10
Deionized Water bottle	10
Watch glass	50
Test tubes small	100
Test tubes medium	100
Test tube rack 40 and 60 holes	10 each

2. PHYSICS LABORATORY TABLES, CABINET FIXTURES & ACCESSORIES

PHYSICS TABLE	6
Dim 2400mm L x 1000mm W x 850mm H	
DEMONSTRATION TABLE WITHOUT GAS OUTLET AND SINK	1
Dim 1680mm L x 600mm W x 850mm H	
PLATFORM	1
Dim 4800mm L x 1650mm W x 169mm Elevation	
LABORATORY STOOLS	40
Dim 300mm dia x 550mm H	
DISPLAY CABINET	2
Dim 1200mm L x 500mm W x 2100 H	
LAB SIDE TABLES WITH 1 SINK	1
Dim 2440mm L x 650mm W x 850mm H	

Accessories:

Items	Quantity unit
Vernier Caliper	20
Micrometer Caliper	20
Set of weights	10
Force table	20
Meter stick	50
Spring balance	50
Dynamic cart	10
Friction less dynamic track set	5
Linear air track with blower and trolley set	5
Centripetal force apparatus set	5

3. FORENSIC TABLES, CABINET FIXTURES & ACCESSORIES

LAB CENTER TABLE	6
Dim 2400mm L x 1000mm W x 850mm H	
DEMONSTRATION TABLE WITHOUT GAS OUTLET AND SINK	1
Dim 1680mm L x 600mm W x 850mm H	
PLATFORM	1
Dim 4800mm L x 1650mm W x 169mm Elevation	
LABORATORY STOOLS	40
Dim 300mm dia x 550mm H	
LAB SIDE TABLES WITH 1 SINK	1
Dim 2440mm L x 650mm W x 850mm H	

Accessories:

Glasswares	Quantity (pcs)
Beaker (25, 50, 100, 250 ml capacity)	50 each
Erlenmeyer (125, 250 capacity)	50 each
Graduated Cylinder (10, 50, 100 ml)	20 each
Volumetric Flask Clear (25,50, 100, 250, 500, 1L)	10 each
Acid Burets 50ml	10
Base Burettes 50 ml	10
Burette stand with Burette Clamp	5
Wash bottles plastic	10
Deionized Water bottle	10

4. RESEARCH LABORATORY TABLES, CABINET FIXTURES & ACCESSORIES

LAB CENTER TABLE WITH END SINK	2
Dim. 3600mm L x 1200mm W x 850mm H	
LAB SIDE TABLE WITH 2 SINKS (L-shape)	1
Dim. 3090mm (Side A) x 7480mm (Side B) L x 650mm W x 850mm H	
DISPLAY CABINET	3
Dim 1200mm L x 500mm W x 2100 H	
LAB SIDE TABLE	2
Dim. 1680mm L x 650mm W x 850mmH	
LABORATORY STOOLS	30

Dim 300mm dia x 550mm H		
EYEWASH COMBINED WITH SHOWER	1	

Accessories:

Glasswares	Quantity (pcs)
Beaker (25, 50, 100, 250 ml capacity)	50 each
Erlenmeyer (125, 250 capacity)	50 each
Graduated Cylinder (10, 50, 100 ml)	20 each
Volumetric Flask Clear (25,50, 100, 250, 500, 1L)	10 each
Reagent Bottles Clear (500ml)	10
Reagent Bottles Amber (500mml)	10
Acid Burets 50ml	10
Base Burettes 50 ml	10
Burette stand with Burette Clamp	5
Wash bottles plastic	10
Deionized Water bottle	10
Watch glass	50
Test tubes small	100
Test tubes medium	100
Test tube rack 40 and 60 holes	10 each

MATERIAL SPECIFICATIONS

LAB COUNTER TOP

Acid Resistant, heat resistant and stain resistant One piece molded resin counter top bullnose edge finished 32mm thickness finish

LAB SINK BOWL

Acid Resistant, heat resistant and stain resistant

One piece molded resin sink (300mm deep type) and drain board, seamless and rounded edges and corners with drain fittings and polyvinyl p- trap

LAB PEG BOARD

Acrylic clear glass board 3/8" thick machine cut with rounded corners and polished edge crystal finished. 19 pegs flanged type white ABS ½ OD x 8" L epoxy coated steel brackets and stainless mounting bolts and nuts. Dim 600mm W x 450mm H

LAB FIXTURES (WATER AND GAS FITTINGS)

Solid brass construction, high gloss epoxy powder, resistant to most chemicals. UV fading and heat. Water static pressure max 10 bar. Detachable brass serrated nozzle, splash controlled water filter attached. Ergonomic, high grade PP Knob handle. With 360° swing gooseneck spout

LAB FIXTURES (Electrical outlets)

Two gang box, removable face plate and duplex 3- wired polarized grounding receptacle rated for 220VAC

LAB BASE CABINET

Main Carcass - epoxy type coated marine plywood 18mm thick for sidings and bottom plate and 6mm thick for backing

Drawer face – epoxy coated marine plywood with grab handle

Drawer box – epoxy coated marine plywood $\frac{1}{2}$ " thick sidings and $\frac{1}{4}$ " thick bottom plate

Door Panels – epoxy coated marine plywood with grab handle, concealed hinges swing type with self-closing mechanism

Adjustable shelf – Epoxy coated marine plywood with plated metal tox

Baseboard assembly – epoxy coated marine plywood base board panel with adjustable leveler.

LOT 4 – ICT & OFFICE EQUIPMENT

1. SPLIT TYPE AIRCON WALL MOUNTED 2HP

Cooling Capacity (Kj/hr)	2,080 – 20,000
Power supply (V-ph-Hz):	230V, 60Hz, 1Ph
Power Consumption (W)	145 – 1,530
Energy Efficiency Ratio (EER) (Kj/W-hr)	14.3 - 9.8
Rating Current (A)	1.3 - 7.0
Refrigerant type (g)	R410A
Air flow (high/med/low) (m3/h)	500 / 390 / 300
Sound pressure level	40/35/31
Weight (kg)	9.0/12.0
Indoor Dimension (W*H*D) (mm)	812 x 192 x 300
Outdoor Dimension (W*H*D) (mm)	770 x 300 x 555
Recommended Cooling Area	21 to 28 sqm

2. SPLIT TYPE FLOOR MOUNTED 3TR

WALL MOUNTED AIR CONDITION 4HP/3TR

Cooling Capacity	
Power Supply	230 V / 1 Ph / 60 Hz
Refrigerant	R22

PERFORMANCE DATA

Cooling Capacity	37,980	kJ/Hr
Power Input	4,180 V	Vatts
Energy Efficiency Ratio	(EER)	9.1 kJ/W-Hr
Sound Level @ Low 54 @	dΒA	

PHYSICAL DATA

Indoor UnitNet Dimension (W x H x D)508 x 1,806 x 288 mmPackaging Dimension (W x H x D)590 x 1,910 x 380 mmUnit Weight (Net/Gross) 42.5 / 46 kg

Outdoor Unit

Net Dimension (W x H x D) 936 x 722 x 336 mm Packaging Dimension (W x H x D) 1,074 x 765 x 415 mm Unit Weight (Net/Gross)62 / 64.5 Kg Compressor Type Rotary Refrigerant Piping Connection Flare

3. NOTE BOOK COMPUTER

Operating System : Windows 10 Home Processor : Intel Core i7-8565U Processor (8M Cache, up to 4.6 GHz) Graphics : 2GB NVIDIA GeForce MX250 Display : 14-inch (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel Memory : 4GB DDR4 2400 Keyboard : Illuminated chiclet keyboard **Storage : 1TB HDD + 500GB SSD** Connectivity : Integrated Wi-Fi 5 (802.11 ac (2x2)) Ports : 1 x COMBO audio jack 1 x Type-A USB2.0 1 x Type-A USB 3.0 (USB 3.1 Gen 1) 1 x Type-C USB 3.0 (USB 3.1 Gen 1 / Gen 2) 1 x HDMI Battery : 2 -Cell 37 Wh Battery Webcam : HDWebcam

4. DESKTOP COMPUTER

Processor : Intel Core i7-7700 (8MB Cache, Quadcore Processor 3.6 GHZ MaxFrequency 4.20 Ghz) Memory: 8GB DDR4 2133 MHz Storage : 1TB 3.5-inch 7200 RPM + 500 GB SSD Graphics : NVIDIA GeForce GT 1050, 2 GDDR5 (supporting: DVI-D, HDMI, DP) Optical Drive : 8X Super-Multi drive, 9.0 mm slim, tray-load Connectivity : 802.11ac/a/b/g/n wireless Gigabit LAN and Bluetooth Front/Side Ports : Card reader: Yes Audio jack(s): 2 USB 3.0 port(s): 2 Rear I/O Ports : HDMI port(s): 2 (out) LAN port(s): 1 Audio jack(s): 3 USB 2.0 port(s): 4 USB 3.0 port(s): 1" Number of PCIe x16 slot(s): 1 Number of PCIe x1 slot(s): 1 M.2 slot (for SSD): 1 M.2 slot (for WLAN): 1 Power Supply : 300W CR

Accessories : Wired Keyboard and mouse Display port : DVI to D-Sub Monitor : Acer R231 bmid 23" Monitor VGA + DVI + HDMI Operating System : Win 10 SL 64 Bit Warranty : 1 Years Part - 1 Years Labor Only (1-1-0) with UPS

5. LCD PROJECTOR

Front/Side Ports : Card reader: Yes Audio jack(s): 2 USB 3.0 port(s): 2 Rear I/O Ports : HDMI port(s): 2 (out) LAN port(s): 1 Audio jack(s): 3 USB 2.0 port(s): 4 USB 3.0 port(s): 1" Number of PCIe x16 slot(s): 1 Number of PCIe x1 slot(s): 1 M.2 slot (for SSD): 1 M.2 slot (for WLAN): 1 Power Supply: 300W CR Accessories : Wired Keyboard and mouse Display port : DVI to D-Sub Monitor : Acer R231 bmid 23" Monitor VGA + DVI + HDMI Operating System : Win 10 SL 64 Bit Warranty: 1 Years Part - 1 Years Labor Only (1-1-0)

6. 3D PRINTER WITH ACCESSORIES

<u>3D printer 12"</u> Dimensions: 193X193X23.2 in Build Volume: 11.8X11.8X11.8in Technology: LPD Layer Resolution: 140-300microns Wall Thickness: 800microns Material Diameter: 1.75mm Nozzle Diameter: 0.40mm Extruder Max Temp.: 380°C Heated Platform Connectivity: SD Card

7. ALL IN ONE TANK SYSTEM PRINTER

Printing Technology:

Print Method: Precision Core Print Head Maximum Print Resolution: 4,800 x 1,200 dpi Minimum Ink Droplet Volume: 2.8pl Printer Language: ESC/P-R Automatic Duplex Printing: Yes, up to A3 size Control Panel: 4.3" TFT Colour LCD

Print Speed: Draft, A4 (Black / Colour): Up to 32 ppm / 20 ppm ISO 24734, A4 Simplex (Black / Colour): Up to 18 ipm / 10 ipm ISO 24734, A4 Duplex (Black / Colour): Up to 8.7 ipm / 6.0 ipm ISO 24734.2, A3 Simplex (Black / Colour): Up to 10 ipm / 6.0 ipm ISO 24734.2, A3 Duplex (Black / Colour): Up to 6.0 ipm / 3.7 ipm Photo Default: Approx. 42 sec per photo (with Border)

Copy Function: Copy Resolution: 600 x 600 dpi Max Copies: 999 copies Reduction / Enlargement: 25 - 400%, Auto Fit Function Maximum Copy Size: A3