



Republic of the Philippines
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**SUPPLY, DELIVERY, AND INSTALLATION OF LABORATORY
 EQUIPMENT FOR RESEARCH CENTER**

ABC: Php 2,196,000.00

Item No.	Qty. / Unit	Specifications	Unit Price (Php)	Total Price (Php)
1	2 sets	Soxhlet Extraction Set Up A Soxhlet extractor has three main sections: a. percolator (boiler and reflux) which circulates the solvent, b. thimble (usually made of thick filter paper) which retains the solid to be extracted, c. siphon mechanism, which periodically empties the thimble. Complete glassware set up Capacity: 500mL (2 sets) With Heating Mantle for each set	120,000.00	240,000.00
2	1 unit	Laboratory Grinder/Blender With Timer <ul style="list-style-type: none"> Capacity: at least 1 Liter Switch Settings: Two Speed <ul style="list-style-type: none"> a) 60 Second Mechanical Timer b) Automatic shutoff c) Push button speed control operation for <ul style="list-style-type: none"> 18,000 rpm 22,000 rpm Base: Epoxy Coated Motor Housing Container: <ul style="list-style-type: none"> a) Stainless steel with handle b) Two-piece vinyl and styrene lid. c) Heat resistant glass with handle and two-piece vinyl and styrene lid. <ul style="list-style-type: none"> Overall Height: at least 15 inches Power : 220V 	150,000.00	150,000.00
3	1 set	Distillation Set Up with Heating Mantle <ul style="list-style-type: none"> Glassware, Hardware and Heating Mantle included Distillation Apparatus with 24/40 Joint (1) - 500 ml Borosilicate Glass Round Bottom Distillation Flask with Side Arm. a) Top Joint Size - 24/40. Cap Included for this Joint. b) Side Arm Joint Size - 24/40. c) Borosilicate Glass Graham Condenser with 24/40 Joint. d) Jacket Length - 300 mm / 12 inch. e) Overall Length - 400mm / 16 inch. f) Joint Size - 24/40. (2) - 250 ml Erlenmeyer Flask, Borosilicate Glass	130,000.00	130,000.00

		a) Glass Stopper, 24/40 Joint, Borosilicate Glass b) Keck Clamp # 24 <ul style="list-style-type: none"> • 6 x 9 Support Stand with 24 Inch Rod • Swivel Utility Clamp • Extension Clamp • Clamp Holder • 5 Inch Hammertone Finish Support Ring • 500 ml Electric Heating Mantle 		
4	1 unit	Freeze Dryer <ul style="list-style-type: none"> • Compact and movable upright type freeze dryer • Automatic operating start and stop and temperature setting • Freezing performance to start drying in 15min ~ 30min • Cold Trap Temp : at least -84°C • Capacity (total) : at least 2.0 L • Trap Size (mm): about Φ 300 x L375 • Dimension (mm) : (Approximately) W368 x D622 x H429 • Power : 220V, 50/60 Hz • Microprocessor Controller <ul style="list-style-type: none"> ○ Auto/Manual start-up controller ○ Display cold trap ○ Temperature ○ vacuum pressure (2000mTorr ~ 0mTorr) ○ printer set ○ Auto Defrost ○ auto vacuum release to prevent a back flow of contaminated oil or gas ○ Automatic vacuum pump start & Stop controller system ○ One touch type automatic operation of freezing & vacuum function ○ With compatible AVR 	1,096,000.00	1,096,000.00
5	2 sets	Horizontal Gel Electrophoresis System (mini) <ul style="list-style-type: none"> • With integrated power supply • With AC transformer • With Casting set for 11cm x 6cm gels: two gel trays and two combs (22*/12 teeth) • Input power: AC 220-240V, 50-60Hz • Output voltage: DC 35V, DC 50V or DC 100V • Tank dimension: approximately 110 x 120 x 45 mm • Buffer volume: 250 ml - 300 ml • Three pre-set voltage selector: 35V, 50V and 100V • Timer adjustable from 0 – 99 minutes or continuous mode • Multichannel pipette compatible 	55,000.00	110,000.00
6	1 unit	Laboratory Stomacher (Homogenizer) with Compatible AVR <ul style="list-style-type: none"> • Optimal blending Volume: 5-80 mL • Variable blending speed (3-6-9-12 strokes/sec) • Variable blending time (1sec. - 1h or open running/countdown) • Adjustable blending power • With 50 stomacher bags Applications: <ul style="list-style-type: none"> • Food microbiology • Sterility tests of disposable products • Ideal for <i>E. coli</i> O157H7 	350,000.00	350,000.00

		<ul style="list-style-type: none"> • Trichinella testing of pork • Microbiological or chemical residue detection in fibrous products • Industrial mixing (powder, polymer ...) • Evaluation of risks in drinking water by analysis of microscopic particulate analysis • Blending of bulky water filters (<i>Cryptosporidium</i> and <i>Giardia</i> parasites extraction) 		
7	1 unit	Top Loading Balance <ul style="list-style-type: none"> • Maximum Capacity : at least 2200 g • Resolution: 0.01 g • Repeatability : ± 0.01 g • Linearity : ± 0.03 g • Settling time : at most 1.5 s • Weighing pan dimensions: about 160 mm diameter • Power : 240 V, 50/60 Hz • External/ internal automatic calibration • LCD with backlight with adjustable contrast • Plastic protection cover 	40,000.00	40,000.00
8	2 unit	Laboratory water distillation apparatus <ul style="list-style-type: none"> • Material: Stainless steel • Volume: approximately 20 L • Power: 220 V, 50/60Hz, 15 kW • Yield: ≥ 20 L/hr • Type: Single distilling • With automatic thermostatic cut-off safety feature 	40,000.00	80,000.00
All equipment items are inclusive of calibration and preventive maintenance services for at least two years, and at least two-year warranty on parts and services.				

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