



Republic of the Philippines
CAVITE STATE UNIVERSITY
Don Severino de las Alas Campus
 Indang, Cavite
 cvsu.edu.ph

**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 Inclusive of at least one-year warranty on parts and services.	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 Inclusive of calibration and preventive maintenance services for at least two years, and at least two-year warranty on parts and services.	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 setup with compatible joints ● General distillation setup (1) - 500 ml Borosilicate Glass Round Bottom Distillation Flask with Side Arm.	130,000.00	130,000.00

		<p>a) Cap Included for top Joint. b) Borosilicate Glass Graham Condenser c) Jacket Length - 300 mm / 12 inch. d) Overall Length - 400mm / 16 inch.</p> <p>(2) - 250 ml Erlenmeyer Flask, Borosilicate Glass a) Glass Stopper, Borosilicate Glass b) with compatible clamp</p> <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 • with compatible Electric Heating Mantle <p>Inclusive of at least one-year warranty on parts and services.</p>		
4	1 unit	<p>Freeze Dryer</p> <ul style="list-style-type: none"> • Compact and movable upright type freeze dryer (Floor-type) • Automatic operating start and stop and temperature setting • Freezing performance to start drying in 15min ~ 30min • Cold Trap Temp : at least -80 to -84°C • Capacity (total) : at least 2.0 L • Trap Size (mm): approximately Φ 270-300 x L375-400 • 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 <p>Inclusive of calibration and preventive maintenance services for at least two years, and at least two-year warranty on parts and services.</p>	1,096,000.00	1,096,000.00
5	2 sets	<p>Horizontal Gel Electrophoresis System (mini)</p> <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 	55,000.00	110,000.00

		<ul style="list-style-type: none"> ● Multichannel pipette compatible <p>Inclusive of at least one-year warranty on parts and services.</p>		
6	1 unit	<p>Laboratory Stomacher (Homogenizer) with Compatible AVR</p> <p>Minimum Specifications:</p> <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 <p>Applications:</p> <ul style="list-style-type: none"> ● Food microbiology ● Sterility tests of disposable products ● Ideal for <i>E. coli</i> O157H7 ● 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) <p>Inclusive of calibration and preventive maintenance services for at least two years, and at least two-year warranty on parts and services.</p>	350,000.00	350,000.00
7	1 unit	<p>Top Loading Balance</p> <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 <ul style="list-style-type: none"> ● Power : 240 V, 50/60 Hz ● External/ internal automatic calibration ● LCD with backlight with adjustable contrast ● Plastic protection cover <p>Inclusive of calibration and preventive maintenance services for at least two years, and at least two-year warranty on parts and services.</p>	40,000.00	40,000.00
8	2 unit	<p>Laboratory water distillation apparatus</p> <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 <p>Inclusive of calibration and preventive maintenance services for at least two years, and at least two-year warranty on parts and services.</p>	40,000.00	80,000.00

Prepared by:



MIRIAM D. BALTAZAR

End-User/Director for Research

Certified correct:



RENE B. BETONIO

TWG Member, Medical, Dental and Lab. Equipment Machineries



LANI S. RODIS

TWG Member, Medical, Dental and Lab. Equipment



ARLEEN C. PANALIGAN

TWG Member, Medical, Dental and Lab. Equipment



MA. CORAZON V. HERRERA

Member: TWG-Medical, Dental and
Laboratory Equipment