



BID BULLETIN 01

Date: 31 August 2022

Project Title: *Supply and Delivery of Laboratory Equipment and Supplies (GOODS-22-45)*

Location: VSU Main, Visca, Baybay City, Leyte

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

I. LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
<i>Technical Documents</i>	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php 971,419.50)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 971,419.50 and the largest of which should be at least PhP 485,709.75 .
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 1,942,839.00)
	Or
	Committed Line of Credit (at least Php 194,283.90)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

1. In the **Technical Specifications**, bidders must state either “Comply” or “Not Comply” **against each of the individual parameters of the specifications** per item stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of **manufacturer’s un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model** as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1 (a)(ii).

2. Bidders are advised to use the latest GPPB forms for the following documents:

- a) Omnibus Sworn Statement
- b) Performance Securing Declaration (if applicable)
- c) Price Schedule for Goods Offered
- d) Bid Form
- e) Bid Securing Declaration

These forms can be accessed from the GPPB website:

<https://www.gppb.gov.ph/downloadables.php>. Documents that are not in its updated/latest format shall be a ground for disqualification of the bidder.

II. Preparation of Electronic Bid (for bidders who prefer electronic bid submission)

- 1. Convert all documents into Portable Document Format (PDF) and should be printable.
- 2. Properly label all documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Registration Certificate (SEC/DTI)	Registration Certificate
3. Mayor’s/Business Permit	Mayor’s-Business Permit
4. Tax Clearance	Tax Clearance
5. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
6. Statement of Bidder's Single Largest Completed Contract	SLCC
7. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
8. Bid Security	Bid Security
9. Technical Specifications	Technical Specifications
10. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
11. Manpower Requirements	Manpower Requirements



12. After Sales service/parts	After Sales
13. Omnibus Sworn Statement	Omnibus Sworn Statement
14. Audited Financial Statements	Audited Financial Statements
15. Net Financial Contracting Capacity	NFCC
16. Committed Line of Credit	CLC
17. Bid Form	Bid Form
18. Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII.

The second folder should contain all requirements under Financial Component checklist.

4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at jessamine.ecleo@vsu.edu.ph before the deadline.

III. Changes in the Bidding Documents

Original	
<p>Section I. Invitation to Bid</p> <p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>17 August – 07 September 2022 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p><i>(Amendment)</i></p> <p>A complete set of Bidding Documents may be acquired by interested Bidders on <i>17 August – 07 September 2022 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means:</p> <p>The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p>The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:</p> <p>Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u></p> <p>Then send the deposit slip to jessamine.ecleo@vsu.edu.ph</p>
<p>Section II. Instructions to Bidders</p>	<p><i>(Additional Instructions)</i></p>



15. Sealing and Marking of Bids	<p>Bidders are requested to submit three (3) copies of its bid – 1 Original, Copy 1, and Copy 2.</p> <p>For filing purposes, the bidders are urged to use Red envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.</p>
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IV. Revised List of Goods and Technical Specifications

- Some Specifications were added (in red font) and/or deleted (in blue font)
- Some Quantities and Unit Prices (ABC) were changed

Item No.	Description	Unit	Qty	ABC/Unit	Total ABC
1	20.6 cu.ft. Heavy Duty Side by Side Inverter Refrigerator	unit	1	52,000.00	52,000.00
	☐20 cu.ft. HD Inverter Side by Side Refrigerator				
	☐No-frost Refrigerator				
	☐Energy efficient inverter compressor				
	☐Quick freeze and quick chill mode				
	☐Weight 90 kg - delete				
	☐Dimensions 76 x 90 x 170 cm - delete				
	☐Digital Temperature Control with LED Display				
	☐Independent Temperature Control				
	☐Child Lock				
	☐Vacation Mode				
	☐Eco-LED Lights				
	☐Spill – Proof Tempered Glass Shelves				
	☐Heavy Duty Handle				
	☐Textured Body (Rust and Stain Resistant)				
	☐3 Twist Ice Cube Trays and Ice Cube Container				
	☐Adjustable Leveling Feet				
	☐Input Power: 170W				
2	250 mm glass stirring rod	pcs	5	125.00	625.00
3	Acetone	gal	5	1,600.00	8,000.00
	☐Acetone, Technical Grade				
	☐1gal				
5	aluminum foil tape	pcs	2	250.00	500.00
	size - (48mm x 9.1m)				
6	Aluminum Soil Moisture Can	pcs	50	60.00	3,000.00
	Dimension: 40-50 mm diameter, 30-40 mm height				



	<i>Material: Aluminum</i>				
7	Ammonium Acetate, AR, 500g	pack	3	1,800.00	5,400.00
8	Ammonium Chloride, Analytical Grade, 500g/btl	btl	1	1,000.00	1,000.00
	■AR grade, 500g per bottle				
9	Antibiotic Discs	tubes	35	400.00	14,000.00
	<i>Used for sensitivity testing of antibiotic residue</i>				
	<i>7 tubes per antibiotic group (50 discs/tube)</i>				
	<i>1. 7 tubes- Beta-lactams (Penicillin and Cephalosporins) - Penicillin G, Amoxicillin</i>				
	<i>2. 7 tubes- Sulfonamides - Sulfadiazine, Sulfanilamide and Sulfamidine, Trimethoprim-sulfamethoxazole</i>				
	<i>3. 7 tubes- Tetracyclines - oxytetracycline, tetracycline and doxycycline</i>				
	<i>4. 7 tubes- Quinolones - ciprofloxacin, enrofloxacin</i>				
	<i>5. 7 tubes- Macrolides - erythromycin, azithromycin, tilimicosin, tylosin</i>				
10	Antibiotic Residue in Meat Test Kit- Set	set	1	437,000.00	437,000.00
	<i>Antibiotic Residue in Meat Test Kit- Set</i>				
	<i>This antibiotic residue test kit (Explorer 2.0) is based on the growth inhibition of Geobacillus stearothermophilus bacterium. In a specific culture medium and under suitable conditions, the spores of this bacterium germinate and multiply, acidifying the medium, causing a color change in the culture medium from blue to yellow. If the food sample contains an antimicrobial concentration higher than the test detection limit, the bacterial growth is inhibited and therefore the color change of the medium will not occur.</i>				
	TECHNICAL DATA:				
	<i>Scope: detection of more than 50 antibiotics from 8 groups</i>				
	<i>Automatic assay: tube format with eReader</i>				
	<i>Manual assay: one-step assay of about 3h at 65 °C after extraction</i>				
	<i>Reading: visual or photometric (plate format)</i>				
	<i>Format: tube and plate</i>				
	<i>Includes the following:</i>				
	<i>Explorer 2.0 test kits (50 single test tubes) C/N ZE/EXT50- 14 kits</i>				
	<i>Positive Control - 5 vials of Penicillin-G C/N ZE/PG5 - 1kit</i>				
	<i>Negative Control - 5 vials of meat juice -</i>				




	<i>C/N ZE/CN5 - 3 Kits</i>				
11	Beaker, Glass, 1000mL	pc	5	1,000.00	5,000.00
	☐1000mL capacity, borosilicate glass				
12	Beaker, Glass, 150 mL	pc	5	380.00	1,900.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
13	Beaker, Glass, 250mL	pc	5	400.00	2,000.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
15	Boric acid, AR	btl	1	2,000.00	2,000.00
	<i>Certified molecular biology grade</i>				
	<i>Suitable for electrophoresis, ≥99.5%</i>				
	<i>Size: 500g per bottle</i>				
16	Buffer Solution pH 10, 500 mL	btl	1	2,500.00	2,500.00
17	Buffer Solution pH 4, 500 mL	btl	1	2,500.00	2,500.00
18	Buffer solution, pH 7, 1000 ml.	btl	1	1,000.00	1,000.00
19	Buffer solution, pH 7, 1000 ml.	btl	1	1,000.00	1,000.00
20	Calcium carbonate, AR 500g/btl	btl	1	1,500.00	1,500.00
21	Calcium Chloride Dihydrate	btl	1	2,000.00	2,000.00
	☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards				
	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
	☐500g				
22	Canada Balsam, for microscopy, 100ml	btl	1	1,800.00	1,800.00
23	Colchicine suitable for plant cell and tissue culture (1g)	btl	1	15,000.00	15,000.00
24	<i>1gram</i>				
25	COPPER (II) NITRATE AR, 500g/btl	btl	1	1,500.00	1,500.00
26	Copper Chloride, Analytical Grade, 500g/btl	btl	1	1,500.00	1,500.00
	☐Analytical grade, 500g per bottle				
27	CTAB	btl	1	3,000.00	3,000.00
	☐500g, AR				
28	Delicate task wipers	boxes	1	1,000.00	1,000.00



	280sheets/box				
	4.4 x 8.4" Kimwipes 1-Ply				
	for wiping surfaces, parts, instruments, and lenses				
29	Dial Oven-Safe Thermometer (Bimetal)	unit	2	2,500.00	5,000.00
	Reads in 1-2 minutes				
	Place 2 - 2 1/2 deep in thickest part of food				
	Can be used in roasts, casseroles, and soups				
	Not appropriate for thin foods				
	Can remain in food while it's cooking				
	Heat conduction of metal stem can cause false high reading				
	Can be calibrated				
30	Digital Calibration Laboratory Weights Kit Set	sets	1	16,000.00	16,000.00
	1mg-1kg Weights Kit Set				
	Version: 1mg-1kg (25 pcs) 1 set (M1 /F1 /F2 grade)				
	Total number of 1 set: 25 pcs				
	M1 grade material: 2Cr13 stainless steel				
	F1/F2 grade material: 304 stainless steel				
31	Distilled Water, 6 liters	btl	5	150.00	750.00
32	Drager Aspirator Bulb	pieces	2	200.00	400.00
33	Dryer Oven/Sterilizer with UV Lamp	unit	1	50,000.00	50,000.00
	Dryer Oven/Sterilizer with UV Lamp				
	Made for the sterilization of various laboratory apparatus				
	Constantly heats the inside for the drying of equipment				
	Comes with a UV lamp inside the unit for effective sterilization				
	Specifications:				
	Temperature: 60°C				
	Electrical: 220v 0.8KW/4A				
	Capacity: 72L				
	Dimensions (W x D x H): 59 in x 56 in x 70 in				
	Pre-installed UV Light				
	Comes with (5) extra UV germicidal lamps				
34	EMS Ethyl Methanesulfonate (C3H8O3S) (25grams/btl)	btl	1	12,000.00	12,000.00
	Molecular weight - 124.2				
	Molarity - 9.7 (neat liquid)				
	Density - 1.202 g/ml (20 °C)				
	99% purity				



35	Fall cone Penetrometer Apparatus	unit	1	20,000.00	20,000.00
	<i>80g weight of test cone (30 degrees apex angle) Aluminum base with dial guage</i>				
36	Filter Paper Ordinary	pack	1	5,000.00	5,000.00
	<i>ordinary, 30 x 40 in., 100 sheets/pack</i>				
37	Filter Paper, 12.5 cm. Ashless #42 or equivalent	boxes	20	2,000.00	40,000.00
	<i>Pore size:2.5um</i>				
	<i>at least 100 pcs. per box</i>				
38	Glacial Acetic Acid	btl	1	3,500.00	3,500.00
	<i>■Analytical Reagent grade 2.5L per bottle</i>				
39	Graduated Cylinder, Glass, 1000mL	pc	5	1,500.00	7,500.00
	<i>■Material: Borosilicate Glass</i>				
	<i>■Good Quality</i>				
40	Graduated Cylinder, Glass, 100mL	pcs	10	400.00	4,000.00
	<i>100mL capacity</i>				
	<i>Type 1, Class A Borosilicate Glass</i>				
41	High Vacuum Pump Deluxe Experiment Kit	pc	1	80,000.00	80,000.00
					
	<p><i>High Vacuum Pump Deluxe Experiment Kit This kit includes everything you need to immediately begin teaching high vacuum physics right out of the box. The kit comes with our LAV-3/G high vacuum pump with a mounted 30" Hg gauge. The pump is a direct drive, two stage rotary van high vacuum pump which can achieve 20 microns in laboratory conditions.</i></p>				
	<p><i>The kit includes the following:</i></p>				
	<p><i>LAV-3/G High Vacuum Pump with 0-30" Hg gauge</i></p>				
	<p><i>6"x 11" Glass Bell Jar</i></p>				
	<p><i>Acrylic High Vacuum Pump Plate with shut-off valve</i></p>				




	5' High Vacuum tubing				
	1 Quart of replacement high vacuum pump oil				
	Ballons and a petri dish to show the balloon expanding at high vacuum and boil water at room temperature under high vacuum				
	Two hose clamps				
42	Horizontal Benchtop Autoclave Steam Sterilizer	unit	1	80,000.00	80,000.00
	☐Horizontal Benchtop Autoclave Steam Sterilizer, 24 L				
	☐Specifications:				
	☐Chamber Capacity: 26x46cm				
	☐Inside Capacity: 24.41L				
	☐Sterilize Temperature: 126 deg. celsius (highest)				
	☐Sterilize Pressure: 1.5kg/cm ³ (highest)				
	☐Sterilize Time: 35 minutes				
	☐Heater: 1500W				
	☐Material Quality: Stainless Steel SUS No. 304, Boiler chamber surface with burnish				
	☐Electric Current: 220V 7A9A				
	☐Safety Equipment: Double pressure adjustment, adjust the inner pressure, if over standard value automatic vent				
43	Hydrochloric Acid	btl	3	1,000.00	3,000.00
	☐AR grade				
	☐2.5 liter/btl.				
	☐36.5-38%				
	☐impurities <1ppm free chlorine				
44	Iron Chloride, Analytical Grade, 500g/btl	btl	1	1,500.00	1,500.00
	☐AR grade, 500 g per bottle				
45	IRON NITRATE NONAHYDRATE, AR, 500g/btl	btl	1	1,500.00	1,500.00
46	Lab Gown Long Sleeves L	pcs	1	500.00	500.00
	☐Lab Coat High-quality White				
	☐Size- Large; long sleeves				
47	Lab Gown Long Sleeves M	pcs	1	500.00	500.00
	☐Lab Coat High-quality White				
	☐Long Sleeves				
	☐Medium size				
48	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity	unit	2	15,000.00	30,000.00
	Material of plate ceramic coating				
	Speed(RPM) : 0-1600RPM				




	Heating Power : 600W				
	Plate Size : 19 * 19 cm				
	Heating Temperature : 350°C				
49	LEAD (II) NITRATE AR 500g/btl	btl	1	1,500.00	1,500.00
50	Magnesium chloride, MgCl₂	btl	1	3,000.00	3,000.00
	☐1kg per bottle				
	☐colourless crystalline solid				
	☐Properties:				
	◀Quality Level: 300				
	◀Grade: anhydrous				
	◀Assay: ≥98%				
	◀Form: powder				
	◀Impurities: ≤0.5% Insolubles				
	◀bp: 1412 °C/1 atm (lit.)				
	◀mp: 714 °C (lit.)				
	◀Density: 2.32 g/mL at 25 °C (lit.)				
51	Magnesium Nitrate	btl	1	1,947.00	1,947.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
52	MANGANESE (II) NITRATE HEXAHYDRATE AR 500g/btl	btl	1	1,500.00	1,500.00
53	Manganese Chloride, Analytical Grade, 500g/btl	btl	1	1,500.00	1,500.00
	☐AR grade, 500g per bottle				
54	Micropipette Tip, 10 uL	pack	1	600.00	600.00
	☐10 uL-capacity				
	☐Standard tip, graduated				
	☐Autoclavable				
	☐Pack of 1000 tips				
55	Micropipette Tip, 1000 uL	pack	1	750.00	750.00
	☐capacity, 1000 uL				
	☐Standard tip, graduated				
	☐Autoclavable				
	☐Pack of 1000 tips				
56	Micropipette Tip, 200 uL	pack	1	550.00	550.00
	☐capacity, 200 uL				
	☐Short tip, graduated,				
	☐Autoclavable				
	☐Pack of 1000 tips				
57	Monel Shrinkage Dish	pc	5	1,300.00	6,500.00
	Dimension: 15ml, 1.57x47 in (40x12mm) Dia.xH				



	<i>Materials:Made of Monel Metal</i>				
58	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage	unit	2	2,000.00	4,000.00
	<ul style="list-style-type: none"> ■Large LCD display of 41mm character height ■Measure DC/AC voltage/current, diode, resistance, capacitance, temperature and continuity test. ■Max. display value: 6000. ■Can test the temperature with unit of °C / °F. ■Includes relative value testing, duty cycle test, data hold, MAX/MIN value hold and auto power off function. ■With overload protection on all ranges. ■Low battery indication and warning alarm function. ■Equipped with a back bracket for supporting multimeter, and also can collect test probe. ■Protected by rubber for drop protection. ■Great for troubleshooting automotive and household electrical problems. 				
59	Munsell Soil Color Book	pc	2	12,500.00	25,000.00
	<i>Color chips are mounted on neutral gray, 7.25x4.25in (184x108mm) water resistant pages in an 8x16in (203x152mm) loose-leaf binder</i>				
60	NE-300 Just Infusion™ Syringe Pump	pc	1	14,999.00	14,999.00
					
	<ol style="list-style-type: none"> 1. Holds 1 Syringe from micro-liter sizes up to 60 mL. (140 mL partially filled) 2. Infusion rates from 0.73 µL/hr (1 mL syringe) to 1500 mL/hr (60 mL syringe) 3. Operates from included 12VDC power supply 				
61	Nitric acid, HNO3	btls	6	3,600.00	21,600.00
	<i>Concentrated, Analytical reagent grade, 2.5L/bottle</i>				
62	Oven, Gravity Convection, 1.27 cu. Ft., 800 W, 230 V	pc	1	60,000.00	60,000.00




					
63	Paraffin, Tissue Embedding Medium, 1 Kg/pack	pack	1	900.00	900.00
	<i>Tissue Embedding Wax, Medium</i>				
	<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>				
64	Parafilm M PM-996 –delete All Purpose Laboratory Film Parafilm sealing film 4 x 125ft	roll	3	2,500.00	7,500.00
65	Pillow block bearing P204 model-delete (1/2" inside diameter)	unit	4	300.00	1,200.00
66	Pipette Tips, 0.5 uL - 10 uL (Clear)	pack	1	550.00	550.00
	<i>Autoclavable</i>				
	<i>Clear</i>				
	<i>Laboratory grade</i>				
	<i>Size: Pack of 1000 tips</i>				
	<i>Capacity: 5 - 10uL</i>				
67	Pipette Tips, 20 - 200 uL (Clear)	pack	1	600.00	600.00
	<i>Autoclavable</i>				
	<i>Clear</i>				
	<i>Laboratory grade</i>				
	<i>Size: Pack of 1000 tips</i>				
	<i>Capacity: 20 - 200uL</i>				
68	Pipettor Set - Volumetric Pipette Controller and Miropipette Pipettors Complete	set	1	85,000.00	85,000.00
	1- Electronic pipette controller - 0.1-200mL range; battery pack: Lithium battery 2.4V; pipetting speed: 50ml in less than 10 seconds; for glass and plastic pipettes from 0.1-200ml; includes assorted reusable/autoclavable glass pipettes 10-50mL capacity				
	4- Micropipette set - fully autoclavable; volumes: 2uL-20uL, 10uL-100uL, 100uL-1000uL, 500uL-5000uL; color-coded push buttons for each volume; includes carousel stand				
69	Potassium Chloride 500g/btl	btl	1	1,500.00	1,500.00




	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
70	Potassium Chloride, AR, 1000g/btl	btl	1	2,500.00	2,500.00
71	Shrinkage Limit Glass Plate	pc	4	340.00	1,360.00
	<i>Dimension: 3.25x3.25x0.25 in (83x83x6mm)</i>				
72	Sodium Hexametaphosphate, 500g/btl	btl	1	800.00	800.00
73	Soil Dispersion Mixer	unit	1	28,000.00	28,000.00
	<i>Meets standards: AASHTO and ASTM</i>				
	<i>Motor: 1/3 hp</i>				
	<i>RPM: 1300x0, 16,000, and 18000rpm speeds</i>				
	<i>Electrical: 115V/60Hz, 7.5Amps or 230V/50-60Hz, 1.3 Amps</i>				
	<i>With Accessories: Replacement blade and Dispersion cup</i>				
74	Soil Sample Rings (Core Sampler)	pc	35	140.00	4,900.00
	<i>Dimension: 50-60mm diameter, 50-60 mm height, outer diameter apprx. 53mm with cover or plastic end cups</i>				
	<i>Material: Aluminum</i>				
75	Strontium Chloride	btl	2	479.00	958.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
76	Sulfur Powder, Analytical Grade, 500g/btl	btl	1	1,000.00	1,000.00
	☐AR grade, 500g per bottle				
77	Taq Universal SYBR Green Supermix	kit	1	19,500.00	19,500.00
	<i>Certified molecular biology grade</i>				
	<i>For qPCR/rtPCR analysis</i>				
	<i>Ready to use reaction mix</i>				
	<i>The mixture includes an enzyme, dNTPs, MgCl₂, SYBR Green I dye, enhancer, stabilizer</i>				
	<i>Size: 2 x 1mL (200 x 20uL rxn)</i>				
78	Test Organisms for Sensitivity Testing	tubes	4	650.00	2,600.00
	<i>pure culture of Bacillus subtilis, Bacillus cereus and Escherichia coli with identified strain/serotype</i>				
	<i>for use as test organisms for sensitivity testing of antibiotic residue in meats</i>				



	Qty: 1 tube per test organism				
	*to be purchased from the UP Los Banos.				
	–				
79	Toluene	btl	1	7,300.00	7,300.00
	☐(CAS 108-88-3)				
	☐2.5 liters,				
	☐Analytical Grade				
	☐99.5%,				
80	Triethanolamine, AR	liters	3	3,000.00	9,000.00
82	Vernier Caliper	pc	2	3,600.00	7,200.00
	☐Measurement Range:0-200mm				
	☐Material:Stainless Steel				
	☐Accuracy:0.01mm				
	☐Caliper Type:Digital Calipers				
83	Vortex Mixer	pc	1	12,000.00	12,000.00
	S-0200- VX-200 Vortex Mixer				
84	Wash Bottle, 250mL cap.	pc	5	200.00	1,000.00
	☐Material: Plastic (good quality)				
85	Watch Glass	pack	1	1,500.00	1,500.00
	☐Material: Glass/Borosilicate Glass				
	☐Autoclavable: Yes				
	☐Outer diameter: 75 mm (7.5cm),				
	☐fits 250 mL beakers,				
	☐12pcs/pack,				
	☐good quality				
86	Wire Saw for Soil	pc	2	1,500.00	3,000.00
	Standard:ASTM				
87	Zahn Cup-Type Viscometer Catalog No. 15-348-50B	pc	1	14,000.00	14,000.00
					
	1. Capacity = 1.5 oz. (44mL)				
	2. Length =13.75 in. (35cm)				
	3. Diameter = 0.108 in.				



	4. Material = Corrosion Resistant Stainless Steel				
	5. Catalog No. = 15-348-50B				
88	Zahn Cup-Type Viscometer Catalog No. 15-348-50D	pc	1	14,000.00	14,000.00
					
	1. Capacity = 1.5 oz. (44mL)				
	2. Length =13.75 in. (35cm)				
	3. Diameter = 0.108 in.				
	4. Material = Corrosion Resistant Stainless Steel				
	5. Catalog No. = 15-348-50B				
89	Zinc Chloride, Analytical Grade, 500g/btl	btl	1	1,500.00	1,500.00
	■AR grade, 500 g per bottle				
90	ZINC NITRATE, HEXAHYDRATE AR, 500g/btl	btl	1	1,500.00	1,500.00
91	Clevenger Apparatus 1000ml Capacity	sets	5	30,000.00	150,000.00
	Specifications:				
	Essential oil determination for oil lighter than water				
	Heat resistant low expansion 3.3 borosilicate glass transparent				
	Round bottom flask 1000 mL, 24/29				
	Liebig condenser 300 mm, 24/29				
	10 ml extractor with 0 – 10 ml graduation and 0, 1 ml subdivisions (24/29)				
	Maximum temp. capacity 400°C				
	Parts:				
	Condenser				
	Clevenger extractor				
	Round bottom flask				



92	Erlenmeyer flask, Glass, 500ml	pcs	30	1,000.00	30,000.00
	500ml capacity, borosilicate glass				
93	Laboratory Iron Stand Support Flask Condenser Clamp Clip Set	sets	5	7,000.00	35,000.00
	Laboratory Stand height 60 cm				
	Iron ring diameter (55 mm, 80 mm & 85 mm)				
	Swivel clamp 2 prong 50 mm				
	Swivel clamp 3 prong 50 mm				
94	Natural Red Rubber Tubing	meters	10	700.00	7,000.00
	Size				
	Inner diameter (6mm)				
	Outside diameter (10mm)				
	1.5 mm thick wall				
	6.5 mm bore				
	Specification				
	Application: Laboratory environments, Gas/Water taps, Condenser columns, Bunsen burners, Transferring gases, liquids and diluted acids.				
	Product: Natural Rubber Tubing				
	Hardness (Shore A): 45°				
	Material: Natural Rubber				
	Colour: Red				
95	Multi-Function high-speed grinding Machine	pcs	2	10,000.00	20,000.00
	Justification				
	Large quantity of pulverized sample is required for the extraction of essential oils to				
	facilitate sufficient quantity of essential oil needed for physico-chemical and antimicrobial				
	analysis.				
	Specification				
	1kg - 1500 kg capacity				
	220 watts voltage				
	28000 rpm rotation speed				
	pulverizer and swing type				
	accessories to include: blade, carbon brush, mesh and manual				
	Rebidding (GOODS-22-26)				
96	Agar Agar	kilos	1	2,800.00	2,800.00
97	Autoclavable plastic bag	pack	1	8,000.00	8,000.00
	Color: Transparent				
	Size: 12" x 12"				
	100 pcs/pack				
98	Ceramic palette, round	pc	1	1,500.00	1,500.00



	<i>Material: Ceramic</i>				
	<i>Color: White</i>				
	<i>Shape: Round</i>				
	<i>Size: 1" x 7-1/4, 11 wells,</i>				
99	Dissolve oxygen electrode	unit	1	20,000.00	20,000.00
	<i>DO electrode compatible with DO700 dissolved oxygen meter</i>				
	<i>Temperature and salinity sensor with automatic temperature and salinity compensation</i>				
	<i>Manual barometric pressure compensation.</i>				
	<i>Dissolved Oxygen Concentration: 0 to 40.00mg/L</i>				
	<i>Dissolved Oxygen Saturation: 0 to 200.0%</i>				
	<i>The pen-style electrode is easy to dip into a sample in a lab or in the field, making the DO700 an extremely versatile meter.</i>				
	<i>Measuring Range: (0 to 40.00) mg/L (ppm) (0 to 200.0) %</i>				
	<i>Resolution: 0.1/0.01 mg/L (ppm) 1/0.1 %</i>				
	<i>Accuracy: Meter: ±0.10 mg/L; with electrode: ±0.40 mg/L</i>				
	<i>Response Time: ≤30 s (25 C, 90% response)</i>				
	<i>Residual current: ≤0.1 mg/L</i>				
	<i>Temp. Compensation range: 0 to 45 C; Automatic</i>				
	<i>Salinity Compensation range: 0 to 45 ppt; Automatic</i>				
	<i>Barometric Pressure: 66 to 200 Kpa</i>				
	<i>Electrode type: Polarogram type</i>				
100	Electronic Gel Rocker	pc	1	25,000.00	25,000.00
	<i>PRODUCT SPECIFICATION</i>				
	<i>Maximum: 60 RPM</i>				
	<i>Motor: DC Motor</i>				
	<i>Speed Controller: Analogue</i>				
	<i>Platform Size: 25 X 25 cms</i>				
	<i>Weight: 4kgs</i>				
	<i>Movement: See-Saw</i>				
	<i>Timer: 0- 60 min (Digital)</i>				
	<i>Dimension: 25 x 25 x 17.5 cms</i>				
	<i>Operating Voltage: 230V, 50 Hz, A.C Supply</i>				
	<i>Body: MS With Powder Coated Body</i>				
101	Elisa Immuno Explorer Refill Kit	sets	3	5,800.00	17,400.00
102	Filter Paper, 12.5 cm. Ashless #42 or equivalent	boxes	3	2,000.00	6,000.00
	<i>Pore size:2.5um</i>				
	<i>at least 100 pcs. per box</i>				



103	Filter Paper, 12.5 cm. Ashless #42 or equivalent	boxes	17	2,000.00	34,000.00
	<i>Pore size:2.5um</i>				
	<i>at least 100 pcs. per box</i>				
104	Glass Vials 2ml	set	1	800.00	800.00
	■100Pcs/Set 2ml Graduated Clear Sample Vials Autosampler Vials Bottles Threaded Vial w/ Write-on Spot Screw Caps Septa				
105	Global Positioning System (GPS)	unit	1	25,000.00	25,000.00
	<i>Specifications: 4-inch dual-orientation, glov- friendly touchscreen display; 8 megapixel autofocus camera; automatically geotags photos; tracks both GPS and GLONASS satellites; 1-year birdsEye Satellite Imagery subscription; 3-axis compass with barometric altimeter</i>				
106	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs./pack	packs	1	700.00	700.00
	■Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm				
107	Hydrochloric acid, HCl	btls	3	1,000.00	3,000.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>				
108	IDEA Kit-Inquiry Dye Electrophoresis Activity	sets	3	4,500.00	13,500.00
109	nylon weighted rope & calibrated line, 20m/roll	roll	2	5,000.00	10,000.00
110	nylon weighted rope & calibrated line, 20m/roll	roll	2	5,000.00	10,000.00
	<i>>Heavy Nylon line calibrated from 0 to 20 meter in 1 meter increments.</i>				
	<i>>Lower end of line is fitted with brush hook for attachment to sampling devices, Secchi disk, etc.</i>				
	<i>>w/ removable 2-lb (0.91kg) lead weight</i>				
	<i>>Top end of line is attached to a foam plastic float which also serve as storage reel for line</i>				
111	Paraffin, Tissue Embedding Medium, 1 Kg/pack	pack	1	900.00	900.00
	<i>Tissue Embedding Wax, Medium</i>				
	<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>				
112	Para-phenylenediamine, 500 gms	bot	1	5,400.00	5,400.00
	<i>*used for dyeing specimen (lichens)</i>				
113	pGLO Bacterial Transformation Reagent Refill Kit	sets	3	4,800.00	14,400.00
114	Plastic cellophane 5"x8"	pack	3	200.00	600.00
	<i>Color: transparent</i>				



	Size: 5"x8"				
	thickness: 03				
	100 pcs/pack				
115	Potassium iodide, KI	btl	1	2,000.00	2,000.00
	■Analytical reagent grade, powder, 500g/bottle				
116	Replacement Membrane Caps for Dissolve Oxygen Meter	set	1	7,000.00	7,000.00
	Replacement or spare Membrane Caps is a set which is for use with Extech Model DO700 Portable Dissolved Oxygen Meter. Comes in a set of three caps.				
117	Resealable Plastic Bag, Large	pack	1	500.00	500.00
	■resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack				
118	Resealable Plastic Bag, Small	pack	5	100.00	500.00
	resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack				
119	Restriction Digestion and Analysis of Lambda DNA Kit	sets	3	7,200.00	21,600.00
120	Rubber Tubing Latex	roll	2	4,000.00	8,000.00
	rubber tubing latex 10mm outside diameter, PK-50F, 100feet/roll				
121	Silica gel, self indicating, blue, 500g/btl	btl	1	3,000.00	3,000.00
	color: blue				
	particle size (beads): 2-5mm				
	used as desiccant agent (drying agent)				
122	Sodium Hexametaphosphate, 500g/btl	btl	4	1,000.00	4,000.00
123	Sodium Hydroxide, AR 500G/btl	btls	2	1,200.00	2,400.00
	■500 g/bottle, AR, Pellets				
124	Sodium Thiosulfate, Na₂S₂O₃	btl	1	2,000.00	2,000.00
	Analytical grade, 100g/bottle				
125	Sulfuric Acid	btl	3	1,750.00	5,250.00
	■Analytical Grade (98%)				
	■2.5 Liters				
	■specific gravity 1.84				
126	Tertiary Butyl Alcohol (TBA), Technical, 1L/btl	btl	2	700.00	1,400.00
	tert-Butanol, synthesis grade				
	(CH ₃) ₃ COH				
127	Tetra Vertical Electrophoresis Cell, 4-gel	set	1	75,000.00	75,000.00
	Tetra 4-gel Vertical Electrophoresis System including:				
	Tank, lid with power cables, electrode assembly				
	Mini cell buffer dam				
	Tetra Companion Running Module				
	2 casting stands with 4 casting frames				



	5 short plates and 5 spacer plates with integrated 1.0 mm spacers				
	Five 10-well combs				
	Five gel releasers				
	TGX Stain-Free FastCast Acrylamide Starter Kit, 10%				
	PowerPac Universal Power Supply				
	SPECIFICATION				
	Number of gels: 1–4				
	Cell (tank and lid with power cables): 1				
	Companion module (to run up to 4 gels): 1				
	10-well combs: 5				
	1.0 mm spacer plates (5 plates per box): 1 box				
	Short plates (5 plates per box): 1 box				
	Casting stands: 2				
	Casting frames: 4				
	Total buffer volume for 2 gels, ml: 800				
	Total buffer volume for 4 gels, ml: 1000				
	Typical run time for SDS-PAGE: 35–45 min (at 200 V constant)				
	Power supply: PowerPac™ Universal				
	Gel format: Mini				
128	Transparent plastic jar with lid, 120ml	box	2	300.00	600.00
	material: plastic				
	Color: transparent				
	capacity: 120ml				
	10 pcs/box				
129	Transparent plastic jar with lid, 150ml	box	2	400.00	800.00
	material: plastic				
	Color: transparent				
	capacity: 150ml				
	10 pcs/box				
130	Transparent plastic jar with lid, 200ml	box	2	600.00	1,200.00
	material: plastic				
	Color: transparent				
	capacity: 200ml				
	10 pcs/box				
131	Transparent ziplock bags (20 x 30cm)	pack	2	200.00	400.00
	100 pcs/pack				
132	Tri-power Stereo Microscope	unit	1	25,000.00	25,000.00
	■45° advance viewing head which can rotate 360°				
	■locked on 15x wide-field eye piece with diopter adjustment on one ocular tube				
	■magnification of paired objectives: 30x parfocal, 45x parcentered, and 60x achromatic				



	led lighting				
	rack and pinion focusing with slip clutch and tension adjustment				
	adjustable pole mounted cycle				
	includes a 95mm black and white reversible stage plate				
	rugged all metal construction				
	corded				
	power source: 220-240 V 50/60Hz				
	with warranty				
133	Blood Agar Base	btl	1	5,800.00	5,800.00
	Enrichment medium and used for the hemolysis test.				
	supplied in 500g/bottle				
134	Buffered Peptone Water	btl	1	2,450.00	2,450.00
	Pre-enrichment broth				
	used for isolation and culturing of bacteria.				
	supplied in 500g/bottle				
135	MacConkey Agar	btl	2	3,750.00	7,500.00
	selective medium				
	aids in identifying non-lactose fermenters (transparent or cream colonies) and lactose fermenter (red to pinkish colonies)				
	supplied in 500g/bottle				
136	Mueller Hinton Agar	btl	2	5,850.00	11,700.00
	Medium used for conducting the antibiotic sensitivity test.				
	supplied in 500g/bottle				
137	Sodium Tellurite at least 10 grams per bottle	btl	1	11,550.00	11,550.00
	Component of the Baird Parker Agar used in identifying Staph. aureus				
				TOTAL:	1,942,839.00

DILBERTO O. FERRAREN
BAC Chairman