



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Laboratory Equipment and Supplies (GOODS-22-45)

Government of the Republic of the Philippines

**September 7, 2022; 9:00 AM
PPO Conference Room, Lower Campus, Visca, Baybay City,
Leyte and via Zoom**

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



**INVITATION TO BID FOR SUPPLY AND DELIVERY OF
LABORATORY EQUIPMENT AND SUPPLIES**

1. The *Visayas State University* through the *GF, STF, TF* intends to apply the sum of *One Million Nine Hundred Forty-Two Thousand Eight Hundred Thirty-Nine Pesos (PhP 1,942,839.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Equipment and Supplies (GOODS-22-45)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.


The *Visayas State University*, through the *GF, STF, TF* intends to apply the following ABC per item to payments under the contract for each item, to wit:

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				
	☐Dimensions 76 × 90 × 170 cm				
	☐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
	<i>Dimension: 40-50 mm diameter, 30-40 mm height</i>				
	<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 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 - 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	kgs	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	kgs	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				

	<i>Comes with (5) extra UV germicidal lamps</i>				
34	EMS Ethyl Methanesulfonate (C3H8O3S) (25grams)	gms	1	12,000.00	12,000.00
	<i>Molecular weight - 124.2</i>				
	<i>Molarity - 9.7 (neat liquid)</i>				
	<i>Density - 1.202 g/ml (20 °C)</i>				
	<i>99% purity</i>				
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	pcs	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
					
	<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</i>				

	<i>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>				
	<i>The kit includes the following:</i>				
	<i>LAV-3/G High Vacuum Pump with 0-30" Hg gauge</i>				
	<i>6"x 11" Glass Bell Jar</i>				
	<i>Acrylic High Vacuum Pump Plate with shut-off valve</i>				
	<i>5' High Vacuum tubing</i>				
	<i>1 Quart of replacement high vacuum pump oil</i>				
	<i>Ballons and a petri dish to show the balloon expanding at high vacuum and boil water at room temperature under high vacuum</i>				
	<i>Two hose clamps</i>				
42	Horizontal Benchtop Autoclave Steam Sterilizer	unit	1	80,000.00	80,000.00
	☐ <i>Horizontal Benchtop Autoclave Steam Sterilizer, 24 L</i>				
	☐ <i>Specifications:</i>				
	☐ <i>Chamber Capacity: 26x46cm</i>				
	☐ <i>Inside Capacity: 24.41L</i>				
	☐ <i>Sterilize Temperature: 126 deg. celsius (highest)</i>				
	☐ <i>Sterilize Pressure: 1.5kg/cm3 (highest)</i>				
	☐ <i>Sterilize Time: 35 minutes</i>				
	☐ <i>Heater: 1500W</i>				
	☐ <i>Material Quality: Stainless Steel SUS No. 304, Boiler chamber surface with burnish</i>				
	☐ <i>Electric Current: 220V 7A9A</i>				
	☐ <i>Safety Equipment: Double pressure adjustment, adjust the inner pressure, if over standard value automatic vent</i>				
43	Hydrochloric Acid	btl	5	600.00	3,000.00
	☐ <i>AR grade</i>				
	☐ <i>2.5 liter/btl.</i>				
	☐ <i>36.5-38%</i>				
	☐ <i>impurities <1ppm free chlorine</i>				
44	Iron Chloride, Analytical Grade, 500g/btl	btl	1	1,500.00	1,500.00
	☐ <i>AR grade, 500 g per bottle</i>				
45	IRON NITRATE NONAHYDRATE, AR, 500g	kgs	1	1,500.00	1,500.00

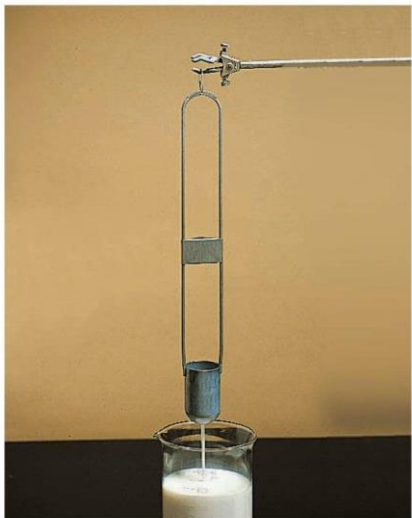

46	Lab Gown Long Sleeves L	pcs	1	500.00	500.00
	☐Lab Coat High-quality White				
	☐Size- Large; long sleeves				
47	Lab Gown Long Sleeves M	pcs	1	500.00	500.00
	☐Lab Coat High-quality White				
	☐Long Sleeves				
	☐Medium size				
48	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum 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	kgs	1	1,500.00	1,500.00
50	Magnesium chloride, MgCl₂	btl	1	3,000.00	3,000.00
	☐1kg per bottle				
	☐colorless 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	kgs	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
	<i>Dimension: 15ml, 1.57x47 in (40x12mm) Dia.xH</i>				
	<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
	☐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
					

	1. Holds 1 Syringe from micro-liter sizes up to 60 mL. (140 mL partially filled)				
	2. Infusion rates from 0.73 μ L/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
	Concentrated, Analytical reagent grade, 2.5L/bottle				
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, Kg	pack	1	900.00	900.00
	Tissue Embedding Wax, Medium				
	Pure Paraffin wax with Added Polymer for precise embedding and sectioning				
64	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft	roll	3	2,500.00	7,500.00
65	Pillow block bearing P204 model (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
	Autoclavable				
	Clear				
	Laboratory grade				
	Size: Pack of 1000 tips				
	Capacity: 5 - 10uL				
67	Pipette Tips, 20 - 200 uL (Clear)	pack	1	600.00	600.00
	Autoclavable				
	Clear				
	Laboratory grade				
	Size: Pack of 1000 tips				
	Capacity: 20 - 200uL				
68	Pipettor Set - Volumetric Pipette	set	1	85,000.00	85,000.00

	Controller and Miropipette Pipettors Complete				
	☐1- <i>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</i>				
	☐4- <i>Micropipette set - fully autoclavable; volumes: 2uL-20uL, 10uL-100uL, 100uL-1000uL, 500uL-5000uL; color-coded push buttons for each volume; includes carousel stand</i>				
69	Potassium Chloride 500g	kgs	1	1,500.00	1,500.00
	☐ <i>Chemical must be plant tissue culture tested for at least 20 years</i>				
	☐ <i>ISO complaint</i>				
	☐ <i>ACS REAG</i>				
	☐ <i>PH EUR</i>				
	☐ <i>meets USP Standards</i>				
	☐ <i>Bioreagent suitable for cell culture</i>				
70	Potassium Chloride, AR, 1000g	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	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 appr. 53mm with cover or plastic end cups</i>				
	<i>Material: Aluminum</i>				
75	Strontium Chloride	btl	2	479.00	958.00
	☐ <i>Anhydrous</i>				
	☐ <i>Lab grade/ Analytical reagent grade</i>				
	☐ <i>Expiration date(3 years from the delivery date)</i>				
	☐ <i>Packed in Teflon bottles</i>				
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>				
	<i>Qty: 1 tube per test organism</i>				
	<i>*to be purchased from the UP Los Banos.</i>				
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
	<i>S-0200- VX-200 Vortex Mixer</i>				
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
	<i>Standard:ASTM</i>				
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,	btl	1	1,500.00	1,500.00

	500g/btl				
	☑AR grade, 500 g per bottle				
90	ZINC NITRATE, HEXAHYDRATE AR, 500g	kgs	1	1,500.00	1,500.00
91	Clevenger Apparatus 1000ml Capacity	sets	5	30,000.00	150,000.00
	Specifications:				
	<i>Essential oil determination for oil lighter than water</i>				
	<i>Heat resistant low expansion 3.3 borosilicate glass transparent</i>				
	<i>Round bottom flask 1000 mL, 24/29</i>				
	<i>Liebig condenser 300 mm, 24/29</i>				
	<i>10 ml extractor with 0 – 10 ml graduation and 0, 1 ml subdivisions (24/29)</i>				
	<i>Maximum temp. capacity 400°C</i>				
	Parts:				
	<i>Condenser</i>				
	<i>Clevenger extractor</i>				
	<i>Round bottom flask</i>				
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
	<i>Laboratory Stand height 60 cm</i>				
	<i>Iron ring diameter (55 mm, 80 mm & 85 mm)</i>				
	<i>Swivel clamp 2 prong 50 mm</i>				
	<i>Swivel clamp 3 prong 50 mm</i>				
94	Natural Red Rubber Tubing	meters	10	700.00	7,000.00
	Size				
	<i>Inner diameter (6mm)</i>				
	<i>Outside diameter (10mm)</i>				
	<i>1.5 mm thick wall</i>				
	<i>6.5 mm bore</i>				
	Specification				
	<i>Application: Laboratory environments, Gas/Water taps, Condenser columns, Bunsen burners, Transferring gases, liquids and diluted acids.</i>				
	<i>Product: Natural Rubber Tubing</i>				
	<i>Hardness (Shore A): 45°</i>				
	<i>Material: Natural Rubber</i>				
	<i>Colour: Red</i>				
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
	Material: Ceramic				
	Color: White				
	Shape: Round				
	Size: 1" x 7-1/4, 11 wells,				
99	Dissolve oxygen electrode	unit	1	20,000.00	20,000.00
	DO electrode compatible with DO700 dissolved oxygen meter				
	Temperature and salinity sensor with automatic temperature and salinity compensation				
	Manual barometric pressure compensation.				
	Dissolved Oxygen Concentration: 0 to 40.00mg/L				
	Dissolved Oxygen Saturation: 0 to 200.0%				
	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.				
	Measuring Range: (0 to 40.00) mg/L (ppm) (0 to 200.0) %				
	Resolution: 0.1/0.01 mg/L (ppm) 1/0.1 %				
	Accuracy: Meter: ±0.10 mg/L; with electrode: ±0.40 mg/L				
	Response Time: ≤30 s (25 C, 90% response)				
	Residual current: ≤0.1 mg/L				

	<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>PRODDUCT 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
	<i>100Pcs/Set 2ml Graduated Clear Sample Vials Autosampler Vials Bottles Threaded Vial w/ Write-on Spot Screw Caps Septa</i>				
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
	<i>1Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm</i>				
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	2	5,000.00	10,000.00
110	nylon weighted rope & calibrated line, 20m	roll	2	5,000.00	10,000.00
	>Heavy Nylon line calibrated from 0 to 20 meter in 1 meter increments.				
	>Lower end of line is fitted with brush hook for attachment to sampling devices, Secchi disk, etc.				
	>w/ removable 2-lb (0.91kg) lead weight				
	>Top end of line is attached to a foam plastic float which also serve as storage reel for line				
111	Paraffin, Tissue Embedding Medium, Kg	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-phenyldiamine	500 gms	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>				
	<i>Size: 5"x8"</i>				
	<i>thickness: 03</i>				
	<i>100 pcs/pack</i>				
115	Potassium iodide, KI	btl	1	2,000.00	2,000.00
	<i>■Analytical reagent grade, powder, 500g/bottle</i>				
116	Replacement Membrane Caps for Dissolve Oxygen Meter	set	1	7,000.00	7,000.00
	<i>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.</i>				
117	Resealable Plastic Bag, Large	pack	1	500.00	500.00
	<i>■resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack</i>				
118	Resealable Plastic Bag, Small	pack	5	100.00	500.00
	<i>resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack</i>				
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

	<i>rubber tubing latex 10mm outside diameter, PK-50F, 100feet/roll</i>				
121	Silica gel, self indicating, blue, 500g	btl	1	3,000.00	3,000.00
	<i>color: blue</i>				
	<i>particle size (beads): 2-5mm</i>				
	<i>used as desiccant agent (drying agent)</i>				
122	Sodium Hexametaphosphate, 500g	btl	5	800.00	4,000.00
123	Sodium Hydroxide, AR 500G	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
	<i>Analytical grade, 100g/bottle</i>				
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
	<i>tert-Butanol, synthesis grade</i>				
	<i>(CH₃)₃COH</i>				
127	Tetra Vertical Electrophoresis Cell, 4-gel	set	1	75,000.00	75,000.00
	<i>Tetra 4-gel Vertical Electrophoresis System including:</i>				
	<i>Tank, lid with power cables, electrode assembly</i>				
	<i>Mini cell buffer dam</i>				
	<i>Tetra Companion Running Module</i>				
	<i>2 casting stands with 4 casting frames</i>				
	<i>5 short plates and 5 spacer plates with integrated 1.0 mm spacers</i>				
	<i>Five 10-well combs</i>				
	<i>Five gel releasers</i>				
	<i>TGX Stain-Free FastCast Acrylamide Starter Kit, 10%</i>				
	<i>PowerPac Universal Power Supply</i>				
	SPECIFICATION				
	<i>Number of gels: 1–4</i>				
	<i>Cell (tank and lid with power cables): 1</i>				
	<i>Companion module (to run up to 4 gels): 1</i>				
	<i>10-well combs: 5</i>				
	<i>1.0 mm spacer plates (5 plates per box): 1 box</i>				
	<i>Short plates (5 plates per box): 1 box</i>				
	<i>Casting stands: 2</i>				
	<i>Casting frames: 4</i>				
	<i>Total buffer volume for 2 gels, ml: 800</i>				
	<i>Total buffer volume for 4 gels, ml: 1000</i>				

	<i>Typical run time for SDS-PAGE\:</i> 35–45 min (at 200 V constant)				
	<i>Power supply:</i> PowerPac™ Universal				
	<i>Gel format:</i> Mini				
128	Transparent plastic jar with lid, 120ml	box	2	300.00	600.00
	<i>material:</i> plastic				
	<i>Color:</i> transparent				
	<i>capacity:</i> 120ml				
	<i>10 pcs/box</i>				
129	Transparent plastic jar with lid, 150ml	box	2	400.00	800.00
	<i>material:</i> plastic				
	<i>Color:</i> transparent				
	<i>capacity:</i> 150ml				
	<i>10 pcs/box</i>				
130	Transparent plastic jar with lid, 200ml	box	2	600.00	1,200.00
	<i>material:</i> plastic				
	<i>Color:</i> transparent				
	<i>capacity:</i> 200ml				
	<i>10 pcs/box</i>				
131	Transparent ziplock bags (20 x 30cm)	pack	2	200.00	400.00
	<i>100 pcs/pack</i>				
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
	<i>Enrichment medium and used for the hemolysis test.</i>				
	<i>supplied in 500g/bottle</i>				
134	Buffered Peptone Water	btl	1	2,450.00	2,450.00
	<i>Pre-enrichment broth</i>				
	<i>used for isolation and culturing of bacteria.</i>				
	<i>supplied in 500g/bottle</i>				

135	MacConkey Agar	btl	2	3,750.00	7,500.00
	<i>selective medium</i>				
	<i>aids in identifying non-lactose fermenters (transparent or cream colonies) and lactose fermenter (red to pinkish colonies)</i>				
	<i>supplied in 500g/bottle</i>				
136	Mueller Hinton Agar	btl	2	5,850.00	11,700.00
	<i>Medium used for conducting the antibiotic sensitivity test.</i>				
	<i>supplied in 500g/bottle</i>				
137	Sodium Tellurite at least 10 grams per bottle	btl	1	11,550.00	11,550.00
	<i>Component of the Baird Parker Agar used in identifying Staph. aureus</i>				
				TOTAL:	1,942,839.00

Bids received in excess of the ABC for each item shall be automatically rejected at bid opening.

2. The *Visayas State University* now invites bids for the above Procurement Project. Delivery of the Goods is required by *ninety (90) calendar days upon receipt of Notice to Proceed (NTP)*. Bidders should have completed, within *two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *17 August – 07 September 2022 until 8:30 AM* 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.

6. The *Visayas State University* will hold a Pre-Bid Conference on *August 25, 2022; 9:00 AM at the PPO Conference Room, Lower Campus, Visca, Baybay City, Leyte* and through video conferencing *via Zoom*, which shall be open to prospective bidders.

Bidders are advised to contact the BAC Secretariat before the scheduled Pre-Bid Conference for the Zoom Meeting Details.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before *07 September 2022 until 8:30 AM*. Late bids shall not be accepted.
8. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through preferred couriers. A proof (e.g. courier receipt/waybill, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
10. Bid opening shall be on *07 September 2022; 9:00 AM at the PPO Conference Room, Lower Campus, Visca, Baybay City, Leyte* and *via Zoom*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Bidders are advised to contact the BAC Secretariat before the scheduled Bid Opening for the Zoom Meeting Details.

11. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Ms. Jessamine C. Ecleo (BAC Secretariat)
Office of the Head for Procurement,
VSU-Main, Visca, Baybay City, Leyte
Mobile: 053 565 0600 local 1093 or 0998 555 0106
Email: jessamine.ecleo@vsu.edu.ph

or

Mr. Toni Marc L. Dargantes (BAC Secretariat)
Office of the VP for Planning, Resource Generation & Auxiliary Services
VSU-Main, Visca, Baybay City, Leyte
Mobile: 0977 7186594
Email: tmdargantes@vsu.edu.ph

13. You may visit the following websites:

For downloading of Bidding Documents: <https://www.vsu.edu.ph/philgeps-opportunities>

August 16, 2022



DILBERTO O. FERRAREN
Chairperson, VSU BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Visayas State University*, wishes to receive Bids for the *Supply and Delivery of Laboratory Equipment and Supplies*, with identification number *GOODS-22-45*.

The Procurement Project (referred to herein as “Project”) is composed of *137 items*, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for 2022 in the amount of *One Million Nine Hundred Forty-Two Thousand Eight Hundred Thirty-Nine Pesos (PhP 1,942,839.00)*.

2.2. The source of funding is: NGA, the GAA, STF, and TF.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

Bidder should comply with the following requirements:

- i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%)* of the ABC for this Project; and
- ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that: **Subcontracting is not allowed.**

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **two (2 years)** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
 - b. For Goods offered from abroad:

- i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
- ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in: Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until *January 7, 2023*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows: One Project having several items, which shall be awarded as separate contracts per item.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> a. <i>Laboratory Equipment, Laboratory Supplies, Laboratory Chemicals or a combination of the foregoing</i> b. completed within two (2) years prior to the deadline for the submission and receipt of bids.
7.1	Subcontracting is not allowed.
12	The price of the Goods shall be quoted <i>DDP VSU Main, Visca, Baybay City, Leyte</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than <i>Thirty-Eight Thousand Eight Hundred Fifty-Six and 78/100 Pesos (PhP 38,856.78) or two percent (2%) of ABC</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>Ninety-Seven Thousand One Hundred Forty-One and 95/100 Pesos (PhP 97,141.95) or five percent (5%) of ABC</i> if bid security is in Surety Bond.
15	<p>Bidders are requested to submit two (2) more copies of its bid (Copy 1 and Copy 2) in addition to the required original hardcopy.</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>
19.3	<i>See Section I. Invitation to Bid (Item 1) for the list of items and their corresponding total Approved Budget for the Contract (ABC).</i>
20.2	Bidders are required to submit its updated Mayor's/Business Permit during post-qualification.
21.2	<i>Not Applicable.</i>

Section IV. General Conditions of Contract

1. **Scope of Contract**

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. **Advance Payment and Terms of Payment**

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. **Performance Security**

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. **Inspection and Tests**

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery term applicable to this Contract is delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site are:</p> <p style="text-align: center;"><i>Mr. Servando Latras, Jr. or Mr. John Adaza III</i> <i>Bodega-Incharge, Supply and Property Office</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082</i></p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
	<p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p>

Spare Parts – if applicable

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
- b. in the event of termination of production of the spare parts:
 - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
 - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the cost thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of 3 years.

Spare parts or components shall be supplied as promptly as possible, but in any case, within 1 month of placing the order.

Packaging –

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

	Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p>

	<p>Intellectual Property Rights – if applicable</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	Payment of staggered deliveries shall be allowed. Payment shall be on “as per cost of the items delivered” subject to inspection and acceptance.
4	The inspections and tests that will be conducted will be specified by the appropriate technical team of VSU to confirm conformity to the contract specifications at no extra cost to VSU.

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item No.	Unit	Qty	Description	Delivered, Weeks/Months
1	unit	1	20.6 cu.ft. Heavy Duty Side by Side Inverter Refrigerator	All Items Should Be Delivered to VSU Main Campus, Visca, Baybay City, Leyte within 90 Calendar Days From Receipt Of Notice To Proceed And Purchase Order
			☐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	
			☐Dimensions 76 × 90 × 170 cm	
			☐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	pcs	5	250 mm glass stirring rod	
3	gal	5	Acetone	
			☐Acetone, Technical Grade	
			☐1gal	
5	pcs	2	aluminum foil tape	
			size - (48mm x 9.1m)	
6	pcs	50	Aluminum Soil Moisture Can	
			Dimension: 40-50 mm diameter, 30-40 mm height	
			Material: Aluminum	
7	pack	3	Ammonium Acetate, AR, 500g	
8	btl	1	Ammonium Chloride, Analytical Grade, 500g/btl	
			☐AR grade, 500g per bottle	
9	tubes	35	Antibiotic Discs	
			Used for sensitivity testing of antibiotic residue	

			7 tubes per antibiotic group (50 discs/tube)
			1. 7 tubes- Beta-lactams (Penicillin and Cephalosporins) - Penicillin G, Amoxicillin
			2. 7 tubes- Sulfonamides - Sulfadiazine, Sulfanilamide and Sulfamidine, Trimethoprim-sulfamethoxazole
			3. 7 tubes- Tetracyclines - oxytetracycline, tetracycline and doxycycline
			4. 7 7 tubes- Quinolones - ciprofloxacin, enrofloxacin
			5. 7 tubes- Macrolides - erythromycin, azithromycin, tilimicosin, tylosin
10	set	1	Antibiotic Residue in Meat Test Kit- Set
			<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>
			<i>TECHNICAL DATA:</i>
			<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 - C/N ZE/CN5 - 3 Kits</i>
11	pc	5	Beaker, Glass, 1000mL
			☐1000mL capacity, borosilicate glass
12	pc	5	Beaker, Glass, 150 mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout

13	pc	5	Beaker, Glass, 250mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
15	btl	1	Boric acid, AR
			<i>Certified molecular biology grade</i>
			<i>Suitable for electrophoresis, ≥99.5%</i>
			<i>Size: 500g per bottle</i>
16	btl	1	Buffer Solution pH 10, 500 mL
17	btl	1	Buffer Solution pH 4, 500 mL
18	btl	1	Buffer solution, pH 7, 1000 ml.
19	btl	1	Buffer solution, pH 7, 1000 ml.
20	kgs	1	Calcium carbonate, AR 500g
21	btl	1	Calcium Chloride Dihydrate
			☐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	btl	1	Canada Balsam, for microscopy, 100ml
23	btl	1	Colchicine suitable for plant cell and tissue culture (1g)
24			<i>1gram</i>
25	kgs	1	COPPER (II) NITRATE AR, 500g
26	btl	1	Copper Chloride, Analytical Grade, 500g/btl
			☐Analytical grade, 500g per bottle
27	btl	1	CTAB
			☐500g, AR
28	boxes	1	Delicate task wipers
			<i>280sheets/box</i>
			<i>4.4 x 8.4" Kimwipes 1-Ply</i>
			<i>for wiping surfaces, parts, instruments, and lenses</i>
29	unit	2	Dial Oven-Safe Thermometer (Bimetal)
			<i>Reads in 1-2 minutes</i>
			<i>Place 2 - 2 1/2 deep in thickest part of food</i>

			<i>Can be used in roasts, casseroles, and soups</i>
			<i>Not appropriate for thin foods</i>
			<i>Can remain in food while it's cooking</i>
			<i>Heat conduction of metal stem can cause false high reading</i>
			<i>Can be calibrated</i>
30	sets	1	Digital Calibration Laboratory Weights Kit Set
			<i>1mg-1kg Weights Kit Set</i>
			<i>Version: 1mg-1kg (25 pcs) 1 set (M1 /F1 /F2 grade)</i>
			<i>Total number of 1 set: 25 pcs</i>
			<i>M1 grade material: 2Cr13 stainless steel</i>
			<i>F1/F2 grade material: 304 stainless steel</i>
31	btl	5	Distilled Water, 6 liters
32	pieces	2	Drager Aspirator Bulb
33	unit	1	Dryer Oven/Sterilizer with UV Lamp
			<i>Dryer Oven/Sterilizer with UV Lamp</i>
			<i>Made for the sterilization of various laboratory apparatus</i>
			<i>Constantly heats the inside for the drying of equipment</i>
			<i>Comes with a UV lamp inside the unit for effective sterilization</i>
			<i>Specifications:</i>
			<i>Temperature: 60°C</i>
			<i>Electrical: 220v 0.8KW/4A</i>
			<i>Capacity: 72L</i>
			<i>Dimensions (W x D x H): 59 in x 56 in x 70 in</i>
			<i>Pre-installed UV Light</i>
			<i>Comes with (5) extra UV germicidal lamps</i>
34	gms	1	EMS Ethyl Methanesulfonate (C3H8O3S) (25grams)
			<i>Molecular weight - 124.2</i>
			<i>Molarity - 9.7 (neat liquid)</i>
			<i>Density - 1.202 g/ml (20 °C)</i>
			<i>99% purity</i>
35	unit	1	Fall cone Penetrometer Apparatus
			<i>80g weight of test cone (30 degrees apex angle) Aluminum base with dial guage</i>
36	pcs	1	Filter Paper Ordinary
			<i>ordinary, 30 x 40 in., 100 sheets/pack</i>
37	boxes	20	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			<i>Pore size:2.5um</i>

			<i>at least 100 pcs. per box</i>
38	btl	1	Glacial Acetic Acid
			☐ <i>Analytical Reagent grade 2.5L per bottle</i>
39	pc	5	Graduated Cylinder, Glass, 1000mL
			☐ <i>Material: Borosilicate Glass</i>
			☐ <i>Good Quality</i>
40	pcs	10	Graduated Cylinder, Glass, 100mL
			<i>100mL capacity</i>
			<i>Type 1, Class A Borosilicate Glass</i>
41	pc	1	High Vacuum Pump Deluxe Experiment Kit
			<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>
			<i>The kit includes the following:</i>
			<i>LAV-3/G High Vacuum Pump with 0-30" Hg gauge</i>
			<i>6"x 11" Glass Bell Jar</i>
			<i>Acrylic High Vacuum Pump Plate with shut-off valve</i>
			<i>5' High Vacuum tubing</i>
			<i>1 Quart of replacement high vacuum pump oil</i>
			<i>Ballons and a petri dish to show the balloon expanding at high vacuum and boil water at room temperature under high vacuum</i>
			<i>Two hose clamps</i>
42	unit	1	Horizontal Benchtop Autoclave Steam Sterilizer
			☐ <i>Horizontal Benchtop Autoclave Steam Sterilizer, 24 L</i>
			☐ <i>Specifications:</i>
			☐ <i>Chamber Capacity: 26x46cm</i>
			☐ <i>Inside Capacity: 24.41L</i>
			☐ <i>Sterilize Temperature: 126 deg. celsius (highest)</i>
			☐ <i>Sterilize Pressure: 1.5kg/cm³ (highest)</i>
			☐ <i>Sterilize Time: 35 minutes</i>
			☐ <i>Heater: 1500W</i>
			☐ <i>Material Quality: Stainless Steel SUS No. 304, Boiler chamber surface with burnish</i>
			☐ <i>Electric Current: 220V 7A9A</i>
			☐ <i>Safety Equipment: Double pressure</i>

			<i>adjustment, adjust the inner pressure, if over standard value automatic vent</i>
43	btl	5	Hydrochloric Acid
			☐AR grade
			☐2.5 liter/btl.
			☐36.5-38%
			☐impurities <1ppm free chlorine
44	btl	1	Iron Chloride, Analytical Grade, 500g/btl
			☐AR grade, 500 g per bottle
45	kgs	1	IRON NITRATE NONAHYDRATE, AR, 500g
46	pcs	1	Lab Gown Long Sleeves L
			☐Lab Coat High-quality White
			☐Size- Large; long sleeves
47	pcs	1	Lab Gown Long Sleeves M
			☐Lab Coat High-quality White
			☐Long Sleeves
			☐Medium size
48	unit	2	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity
			<i>Material of plate : ceramic coating</i>
			<i>Speed(RPM) : 0-1600RPM</i>
			<i>Heating Power : 600W</i>
			<i>Plate Size : 19 * 19 cm</i>
			<i>Heating Temperature : 350°C</i>
49	kgs	1	LEAD (II) NITRATE AR 500g
50	btl	1	Magnesium chloride, MgCl₂
			☐1kg per bottle
			☐colorless 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	btl	1	Magnesium Nitrate
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles

52	kgs	1	MANGANESE (II) NITRATE HEXAHYDRATE AR 500g
53	btl	1	Manganese Chloride, Analytical Grade, 500g/btl
			☐AR grade, 500g per bottle
54	pack	1	Micropipette Tip, 10 uL
			☐10 uL-capacity
			☐Standard tip, graduated
			☐Autoclavable
			☐Pack of 1000 tips
55	pack	1	Micropipette Tip, 1000 uL
			☐capacity, 1000 uL
			☐Standard tip, graduated
			☐Autoclavable
			☐Pack of 1000 tips
56	pack	1	Micropipette Tip, 200 uL
			☐capacity, 200 uL
			☐Short tip, graduated,
			☐Autoclavable
			☐Pack of 1000 tips
57	pc	5	Monel Shrinkage Dish
			<i>Dimension: 15ml, 1.57x47 in (40x12mm) Dia.xH</i>
			<i>Materials:Made of Monel Metal</i>
58	unit	2	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage
			☐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	pc	2	Munsell Soil Color Book

			<i>Color chips are mounted on neutral gray, 7.25x4.25in (184x108mm) water resistant pages in an 8x16in (203x152mm) loose-leaf binder</i>
60	pc	1	NE-300 Just Infusion™ Syringe Pump
			<i>1. Holds 1 Syringe from micro-liter sizes up to 60 mL. (140 mL partially filled)</i>
			<i>2. Infusion rates from 0.73 µL/hr (1 mL syringe) to 1500 mL/hr (60 mL syringe)</i>
			<i>3. Operates from included 12VDC power supply</i>
61	btls	6	Nitric acid, HNO₃
			<i>Concentrated, Analytical reagent grade, 2.5L/bottle</i>
62	pc	1	Oven, Gravity Convection, 1.27 cu. Ft., 800 W, 230 V
63	pack	1	Paraffin, Tissue Embedding Medium, Kg
			<i>Tissue Embedding Wax, Medium</i>
			<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>
64	roll	3	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft
65	unit	4	Pillow block bearing P204 model (1/2" inside diameter)
66	pack	1	Pipette Tips, 0.5 uL - 10 uL (Clear)
			<i>Autoclavable</i>
			<i>Clear</i>
			<i>Laboratory grade</i>
			<i>Size: Pack of 1000 tips</i>
			<i>Capacity: 5 - 10uL</i>
67	pack	1	Pipette Tips, 20 - 200 uL (Clear)
			<i>Autoclavable</i>
			<i>Clear</i>
			<i>Laboratory grade</i>
			<i>Size: Pack of 1000 tips</i>
			<i>Capacity: 20 - 200uL</i>
68	set	1	Pipettor Set - Volumetric Pipette Controller and Miropipette Pipettors Complete
			■1- <i>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</i>
			■4- <i>Micropipette set - fully autoclavable; volumes: 2uL-20uL, 10uL-100uL, 100uL-1000uL, 500uL-5000uL; color-coded push</i>

			<i>buttons for each volume; includes carousel stand</i>
69	kgs	1	Potassium Chloride 500g
			☐ <i>Chemical must be plant tissue culture tested for at least 20 years</i>
			☐ <i>ISO complaint</i>
			☐ <i>ACS REAG</i>
			☐ <i>PH EUR</i>
			☐ <i>meets USP Standards</i>
			☐ <i>Bioreagent suitable for cell culture</i>
70	btl	1	Potassium Chloride, AR, 1000g
71	pc	4	Shrinkage Limit Glass Plate
			<i>Dimension: 3.25x3.25x0.25 in (83x83x6mm)</i>
72	btl	1	Sodium Hexametaphosphate, 500g
73	unit	1	Soil Dispersion Mixer
			<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	pc	35	Soil Sample Rings (Core Sampler)
			<i>Dimension: 50-60mm diameter, 50-60 mm height, outer diameter approx. 53mm with cover or plastic end cups</i>
			<i>Material: Aluminum</i>
75	btl	2	Strontium Chloride
			☐ <i>Anhydrous</i>
			☐ <i>Lab grade/ Analytical reagent grade</i>
			☐ <i>Expiration date(3 years from the delivery date)</i>
			☐ <i>Packed in Teflon bottles</i>
76	btl	1	Sulfur Powder, Analytical Grade, 500g/btl
			☐ <i>AR grade, 500g per bottle</i>
77	kit	1	Taq Universal SYBR Green Supermix
			<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	tubes	4	Test Organisms for Sensitivity Testing
			<i>pure culture of Bacillus subtilis, Bacillus cereus and Escherichia coli with identified</i>

			<i>strain/serotype</i>
			<i>for use as test organisms for sensitivity testing of antibiotic residue in meats</i>
			<i>Qty: 1 tube per test organism</i>
			<i>*to be purchased from the UP Los Banos.</i>
79	btl	1	Toluene
			☐(CAS 108-88-3)
			☐2.5 liters,
			☐Analytical Grade
			☐99.5%,
80	liters	3	Triethanolamine, AR
82	pc	2	Vernier Caliper
			☐Measurement Range:0-200mm
			☐Material:Stainless Steel
			☐Accuracy:0.01mm
			☐Caliper Type:Digital Calipers
83	pc	1	Vortex Mixer
			<i>S-0200- VX-200 Vortex Mixer</i>
84	pc	5	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality)
85	pack	1	Watch Glass
			☐Material: Glass/Borosilicate Glass
			☐Autoclavable: Yes
			☐Outer diameter: 75 mm (7.5cm),
			☐fits 250 mL beakers,
			☐12pcs/pack,
			☐good quality
86	pc	2	Wire Saw for Soil
			<i>Standard:ASTM</i>
87	pc	1	Zahn Cup-Type Viscometer Catalog No. 15-348-50B
			<i>1. Capacity = 1.5 oz. (44mL)</i>
			<i>2. Length =13.75 in. (35cm)</i>
			<i>3. Diameter = 0.108 in.</i>
			<i>4. Material = Corrosion Resistant Stainless Steel</i>
			<i>5. Catalog No. = 15-348-50B</i>
88	pc	1	Zahn Cup-Type Viscometer Catalog No. 15-348-50D
			<i>1. Capacity = 1.5 oz. (44mL)</i>

			2. Length =13.75 in. (35cm)
			3. Diameter = 0.108 in.
			4. Material = Corrosion Resistant Stainless Steel
			5. Catalog No. = 15-348-50B
89	btl	1	Zinc Chloride, Analytical Grade, 500g/btl
			AR grade, 500 g per bottle
90	kgs	1	ZINC NITRATE, HEXAHYDRATE AR, 500g
91	sets	5	Clevenger Apparatus 1000ml Capacity
			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	pcs	30	Erlenmeyer flask, Glass, 500ml
			500ml capacity, borosilicate glass
93	sets	5	Laboratory Iron Stand Support Flask Condenser Clamp Clip Set
			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	meter s	10	Natural Red Rubber Tubing
			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°

			<i>Material: Natural Rubber</i>
			<i>Colour: Red</i>
95	pcs	2	Multi-Function high-speed grinding Machine
			Justification
			<i>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</i>
			analysis.
			Specification
			<i>1kg - 1500 kg capacity</i>
			<i>220 watts voltage</i>
			<i>28000 rpm rotation speed</i>
			<i>pulverizer and swing type</i>
			<i>accessories to include: blade, carbon brush, mesh and manual</i>
			Rebidding (GOODS-22-26)
96	kilos	1	Agar Agar
97	pack	1	Autoclavable plastic bag
			<i>Color: Transparent</i>
			<i>Size: 12" x 12"</i>
			<i>100 pcs/pack</i>
98	pc	1	Ceramic palette, round
			<i>Material: Ceramic</i>
			<i>Color: White</i>
			<i>Shape: Round</i>
			<i>Size: 1" x 7-1/4, 11 wells,</i>
99	unit	1	Dissolve oxygen electrode
			<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	pc	1	Electronic Gel Rocker
			<i>PRODDUCT 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	sets	3	Elisa Immuno Explorer Refill Kit
102	boxes	3	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			<i>Pore size:2.5um</i>
			<i>at least 100 pcs. per box</i>
103	boxes	17	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			<i>Pore size:2.5um</i>
			<i>at least 100 pcs. per box</i>
104	set	1	Glass Vials 2ml
			<i>■100Pcs/Set 2ml Graduated Clear Sample Vials Autosampler Vials Bottles Threaded Vial w/ Write-on Spot Screw Caps Septa</i>
105	unit	1	Global Positioning System (GPS)
			<i>Specifications: 4-inch dual-orientation, glove-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	packs	1	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs./pack
			<i>■Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm</i>
107	btls	3	Hydrochloric acid, HCl
			<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>

108	sets	3	IDEA Kit-Inquiry Dye Electrophoresis Activity
109	roll	2	nylon weighted rope & calibrated line, 20m
110	roll	2	nylon weighted rope & calibrated line, 20m
			>Heavy Nylon line calibrated from 0 to 20 meter in 1 meter increments.
			>Lower end of line is fitted with brush hook for attachment to sampling devices, Secchi disk, etc.
			>w/ removable 2-lb (0.91kg) lead weight
			>Top end of line is attached to a foam plastic float which also serve as storage reel for line
111	pack	1	Paraffin, Tissue Embedding Medium, Kg
			<i>Tissue Embedding Wax, Medium</i>
			<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>
112	500g ms	1	Para-phenyldiamine
			<i>*used for dyeing specimen (lichens)</i>
113	sets	3	pGLO Bacterial Transformation Reagent Refill Kit
114	pack	3	Plastic cellophane 5"x8"
			<i>Color: transparent</i>
			<i>Size: 5"x8"</i>
			<i>thickness: 03</i>
			<i>100 pcs/pack</i>
115	btl	1	Potassium iodide, KI
			■Analytical reagent grade, powder, 500g/bottle
116	set	1	Replacement Membrane Caps for Dissolve Oxygen Meter
			<i>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.</i>
117	pack	1	Resealable Plastic Bag, Large
			■resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack
118	pack	5	Resealable Plastic Bag, Small
			<i>resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack</i>
119	sets	3	Restriction Digestion and Analysis of Lambda DNA Kit
120	roll	2	Rubber Tubing Latex
			<i>rubber tubing latex 10mm outside diameter, PK-50F, 100feet/roll</i>
121	btl	1	Silica gel, self indicating, blue, 500g

			<i>color: blue</i>
			<i>particle size (beads): 2-5mm</i>
			<i>used as desiccant agent (drying agent)</i>
122	btl	5	Sodium Hexametaphosphate, 500g
123	btls	2	Sodium Hydroxide, AR 500G
			■500 g/bottle, AR, Pellets
124	btl	1	Sodium Thiosulfate, Na₂S₂O₃
			<i>Analytical grade, 100g/bottle</i>
125	btl	3	Sulfuric Acid
			■Analytical Grade (98%)
			■2.5 Liters
			■specific gravity 1.84
126	btl	2	Tertiary Butyl Alcohol (TBA), Technical, 1L/btl
			<i>tert-Butanol, synthesis grade</i>
			<i>(CH₃)₃COH</i>
127	set	1	Tetra Vertical Electrophoresis Cell, 4-gel
			<i>Tetra 4-gel Vertical Electrophoresis System including:</i>
			<i>Tank, lid with power cables, electrode assembly</i>
			<i>Mini cell buffer dam</i>
			<i>Tetra Companion Running Module</i>
			<i>2 casting stands with 4 casting frames</i>
			<i>5 short plates and 5 spacer plates with integrated 1.0 mm spacers</i>
			<i>Five 10-well combs</i>
			<i>Five gel releasers</i>
			<i>TGX Stain-Free FastCast Acrylamide Starter Kit, 10%</i>
			<i>PowerPac Universal Power Supply</i>
			SPECIFICATION
			<i>Number of gels: 1–4</i>
			<i>Cell (tank and lid with power cables): 1</i>
			<i>Companion module (to run up to 4 gels): 1</i>
			<i>10-well combs: 5</i>
			<i>1.0 mm spacer plates (5 plates per box): 1 box</i>
			<i>Short plates (5 plates per box): 1 box</i>
			<i>Casting stands: 2</i>
			<i>Casting frames: 4</i>
			<i>Total buffer volume for 2 gels, ml: 800</i>
			<i>Total buffer volume for 4 gels, ml: 1000</i>
			<i>Typical run time for SDS-PAGE: 35–45 min (at 200 V constant)</i>
			<i>Power supply: PowerPac™ Universal</i>
			<i>Gel format: Mini</i>

128	box	2	Transparent plastic jar with lid, 120ml
			<i>material: plastic</i>
			<i>Color: transparent</i>
			<i>capacity: 120ml</i>
			<i>10 pcs/box</i>
129	box	2	Transparent plastic jar with lid, 150ml
			<i>material: plastic</i>
			<i>Color: transparent</i>
			<i>capacity: 150ml</i>
			<i>10 pcs/box</i>
130	box	2	Transparent plastic jar with lid, 200ml
			<i>material: plastic</i>
			<i>Color: transparent</i>
			<i>capacity: 200ml</i>
			<i>10 pcs/box</i>
131	pack	2	Transparent ziplock bags (20 x 30cm)
			<i>100 pcs/pack</i>
132	unit	1	Tri-power Stereo Microscope
			■ <i>45° advance viewing head which can rotate 360°</i>
			■ <i>locked on 15x wide-field eye piece with diopter adjustment on one ocular tube</i>
			■ <i>magnification of paired objectives: 30x parfocal, 45x parcentered, and 60x achromatic</i>
			■ <i>led lighting</i>
			■ <i>rack and pinion focusing with slip clutch and tension adjustment</i>
			■ <i>adjustable pole mounted cycle</i>
			■ <i>includes a 95mm black and white reversible stage plate</i>
			■ <i>rugged all metal construction</i>
			■ <i>corded</i>
			■ <i>power source: 220-240 V 50/60Hz</i>
			■ <i>with warranty</i>
133	btl	1	Blood Agar Base
			<i>Enrichment medium and used for the hemolysis test.</i>
			<i>supplied in 500g/bottle</i>
134	btl	1	Buffered Peptone Water
			<i>Pre-enrichment broth</i>
			<i>used for isolation and culturing of bacteria.</i>
			<i>supplied in 500g/bottle</i>
135	btl	2	MacConkey Agar
			<i>selective medium</i>
			<i>aids in identifying non-lactose fermenters (transparent or cream colonies) and lactose</i>

			<i>fermenter (red to pinkish colonies)</i>
			<i>supplied in 500g/bottle</i>
136	btl	2	Mueller Hinton Agar
			<i>Medium used for conducting the antibiotic sensitivity test.</i>
			<i>supplied in 500g/bottle</i>
137	btl	1	Sodium Tellurite at least 10 grams per bottle
			<i>Component of the Baird Parker Agar used in identifying Staph. aureus</i>

Section VII. Technical Specifications

Technical Specifications

Item No.	Unit	Qty	Description	Statement of Compliance
1	unit	1	20.6 cu.ft. Heavy Duty Side by Side Inverter Refrigerator	<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., 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 Bidder's statement of compliance or the</i></p>
			☐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	
			☐Dimensions 76 × 90 × 170 cm	
			☐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	pcs	5	250 mm glass stirring rod	
3	gal	5	Acetone	
			☐Acetone, Technical Grade	
			☐1gal	
5	pcs	2	aluminum foil tape	
			size - (48mm x 9.1m)	
6	pcs	50	Aluminum Soil Moisture Can	
			Dimension: 40-50 mm diameter, 30-40 mm height	
			Material: Aluminum	
7	pack	3	Ammonium Acetate, AR, 500g	
8	btl	1	Ammonium Chloride, Analytical Grade, 500g/btl	
			☐AR grade, 500g per bottle	
9	tubes	35	Antibiotic Discs	
			Used for sensitivity testing of antibiotic residue	
			7 tubes per antibiotic group (50 discs/tube)	
			1. 7 tubes- Beta-lactams (Penicillin and Cephalosporins) - Penicillin G, Amoxicillin	

			2. 7 tubes- Sulfonamides - Sulfadiazine, Sulfanilamide and Sulfamidine, Trimethoprim-sulfamethoxazole
			3. 7 tubes- Tetracyclines - oxytetracycline, tetracycline and doxycycline
			4. 7 7 tubes- Quinolones - ciprofloxacin, enrofloxacin
			5. 7 tubes- Macrolides - erythromycin, azithromycin, tilimicosin, tylosin
10	set	1	Antibiotic Residue in Meat Test Kit- Set
			Antibiotic Residue in Meat Test Kit- Set
			<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:
			Scope: detection of more than 50 antibiotics from 8 groups
			Automatic assay: tube format with eReader
			Manual assay: one-step assay of about 3h at 65 °C after extraction
			Reading: visual or photometric (plate format)
			Format: tube and plate
			Includes the following:
			Explorer 2.0 test kits (50 single test tubes) C/N ZE/EXT50- 14 kits
			Positive Control - 5 vials of Penicillin-G C/N ZE/PG5 - 1kit
			Negative Control - 5 vials of meat juice - C/N ZE/CN5 - 3 Kits
11	pc	5	Beaker, Glass, 1000mL
			☐1000mL capacity, borosilicate glass
12	pc	5	Beaker, Glass, 150 mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
13	pc	5	Beaker, Glass, 250mL
			☐Low Form Beaker
			☐Borosilicate Glass

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 applicable laws and issuances.]

			☐Transparent Beaker
			☐Thickened With Spout
15	btl	1	Boric acid, AR
			<i>Certified molecular biology grade</i>
			<i>Suitable for electrophoresis, ≥99.5%</i>
			<i>Size: 500g per bottle</i>
16	btl	1	Buffer Solution pH 10, 500 mL
17	btl	1	Buffer Solution pH 4, 500 mL
18	btl	1	Buffer solution, pH 7, 1000 ml.
19	btl	1	Buffer solution, pH 7, 1000 ml.
20	kgs	1	Calcium carbonate, AR 500g
21	btl	1	Calcium Chloride Dihydrate
			☐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	btl	1	Canada Balsam, for microscopy, 100ml
23	btl	1	Colchicine suitable for plant cell and tissue culture (1g)
24			<i>1gram</i>
25	kgs	1	COPPER (II) NITRATE AR, 500g
26	btl	1	Copper Chloride, Analytical Grade, 500g/btl
			☐Analytical grade, 500g per bottle
27	btl	1	CTAB
			☐500g, AR
28	boxes	1	Delicate task wipers
			<i>280sheets/box</i>
			<i>4.4 x 8.4" Kimwipes 1-Ply</i>
			<i>for wiping surfaces, parts, instruments, and lenses</i>
29	unit	2	Dial Oven-Safe Thermometer (Bimetal)
			<i>Reads in 1-2 minutes</i>
			<i>Place 2 - 2 1/2 deep in thickest part of food</i>
			<i>Can be used in roasts, casseroles, and soups</i>
			<i>Not appropriate for thin foods</i>
			<i>Can remain in food while it's cooking</i>

			<i>Heat conduction of metal stem can cause false high reading</i>
			<i>Can be calibrated</i>
30	sets	1	Digital Calibration Laboratory Weights Kit Set
			<i>1mg-1kg Weights Kit Set</i>
			<i>Version: 1mg-1kg (25 pcs) 1 set (M1 /F1 /F2 grade)</i>
			<i>Total number of 1 set: 25 pcs</i>
			<i>M1 grade material: 2Cr13 stainless steel</i>
			<i>F1/F2 grade material: 304 stainless steel</i>
31	btl	5	Distilled Water, 6 liters
32	pieces	2	Drager Aspirator Bulb
33	unit	1	Dryer Oven/Sterilizer with UV Lamp
			<i>Dryer Oven/Sterilizer with UV Lamp</i>
			<i>Made for the sterilization of various laboratory apparatus</i>
			<i>Constantly heats the inside for the drying of equipment</i>
			<i>Comes with a UV lamp inside the unit for effective sterilization</i>
			<i>Specifications:</i>
			<i>Temperature: 60°C</i>
			<i>Electrical: 220v 0.8KW/4A</i>
			<i>Capacity: 72L</i>
			<i>Dimensions (W x D x H): 59 in x 56 in x 70 in</i>
			<i>Pre-installed UV Light</i>
			<i>Comes with (5) extra UV germicidal lamps</i>
34	gms	1	EMS Ethyl Methanesulfonate (C₃H₈O₃S) (25grams)
			<i>Molecular weight - 124.2</i>
			<i>Molarity - 9.7 (neat liquid)</i>
			<i>Density - 1.202 g/ml (20 °C)</i>
			<i>99% purity</i>
35	unit	1	Fall cone Penetrometer Apparatus
			<i>80g weight of test cone (30 degrees apex angle) Aluminum base with dial guage</i>
36	pcs	1	Filter Paper Ordinary
			<i>ordinary, 30 x 40 in., 100 sheets/pack</i>
37	boxes	20	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			<i>Pore size:2.5um</i>
			<i>at least 100 pcs. per box</i>
38	btl	1	Glacial Acetic Acid
			☐Analytical Reagent grade 2.5L per bottle

39	pc	5	Graduated Cylinder, Glass, 1000mL
			☐Material: Borosilicate Glass
			☐Good Quality
40	pcs	10	Graduated Cylinder, Glass, 100mL
			100mL capacity
			Type 1, Class A Borosilicate Glass
41	pc	1	High Vacuum Pump Deluxe Experiment Kit
			<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>
			<i>The kit includes the following:</i>
			<i>LAV-3/G High Vacuum Pump with 0-30" Hg gauge</i>
			<i>6"x 11" Glass Bell Jar</i>
			<i>Acrylic High Vacuum Pump Plate with shut-off valve</i>
			<i>5' High Vacuum tubing</i>
			<i>1 Quart of replacement high vacuum pump oil</i>
			<i>Ballons and a petri dish to show the balloon expanding at high vacuum and boil water at room temperature under high vacuum</i>
			<i>Two hose clamps</i>
42	unit	1	Horizontal Benchtop Autoclave Steam Sterilizer
			☐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	btl	5	Hydrochloric Acid

			☐AR grade
			☐2.5 liter/btl.
			☐36.5-38%
			☐impurities <1ppm free chlorine
44	btl	1	Iron Chloride, Analytical Grade, 500g/btl
			☐AR grade, 500 g per bottle
45	kgs	1	IRON NITRATE NONAHYDRATE, AR, 500g
46	pcs	1	Lab Gown Long Sleeves L
			☐Lab Coat High-quality White
			☐Size- Large; long sleeves
47	pcs	1	Lab Gown Long Sleeves M
			☐Lab Coat High-quality White
			☐Long Sleeves
			☐Medium size
48	unit	2	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity
			Material of plate : ceramic coating
			Speed(RPM) : 0-1600RPM
			Heating Power : 600W
			Plate Size : 19 * 19 cm
			Heating Temperature : 350°C
49	kgs	1	LEAD (II) NITRATE AR 500g
50	btl	1	Magnesium chloride, MgCl₂
			☐1kg per bottle
			☐colorless 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	btl	1	Magnesium Nitrate
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
52	kgs	1	MANGANESE (II) NITRATE HEXAHYDRATE AR 500g
53	btl	1	Manganese Chloride, Analytical Grade,

			500g/btl
			☐AR grade, 500g per bottle
54	pack	1	Micropipette Tip, 10 uL
			☐10 uL-capacity
			☐Standard tip, graduated
			☐Autoclavable
			☐Pack of 1000 tips
55	pack	1	Micropipette Tip, 1000 uL
			☐capacity, 1000 uL
			☐Standard tip, graduated
			☐Autoclavable
			☐Pack of 1000 tips
56	pack	1	Micropipette Tip, 200 uL
			☐capacity, 200 uL
			☐Short tip, graduated,
			☐Autoclavable
			☐Pack of 1000 tips
57	pc	5	Monel Shrinkage Dish
			<i>Dimension: 15ml, 1.57x47 in (40x12mm) Dia.xH</i>
			<i>Materials:Made of Monel Metal</i>
58	unit	2	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage
			☐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	pc	2	Munsell Soil Color Book
			<i>Color chips are mounted on neutral gray, 7.25x4.25in (184x108mm) water resistant pages in an 8x16in (203x152mm) loose-leaf</i>

			<i>binder</i>
60	pc	1	NE-300 Just Infusion™ Syringe Pump
			<i>1. Holds 1 Syringe from micro-liter sizes up to 60 mL. (140 mL partially filled)</i>
			<i>2. Infusion rates from 0.73 µL/hr (1 mL syringe) to 1500 mL/hr (60 mL syringe)</i>
			<i>3. Operates from included 12VDC power supply</i>
61	btls	6	Nitric acid, HNO₃
			<i>Concentrated, Analytical reagent grade, 2.5L/bottle</i>
62	pc	1	Oven, Gravity Convection, 1.27 cu. Ft., 800 W, 230 V
63	pack	1	Paraffin, Tissue Embedding Medium, Kg
			<i>Tissue Embedding Wax, Medium</i>
			<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>
64	roll	3	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft
65	unit	4	Pillow block bearing P204 model (1/2" inside diameter)
66	pack	1	Pipette Tips, 0.5 uL - 10 uL (Clear)
			<i>Autoclavable</i>
			<i>Clear</i>
			<i>Laboratory grade</i>
			<i>Size: Pack of 1000 tips</i>
			<i>Capacity: 5 - 10uL</i>
67	pack	1	Pipette Tips, 20 - 200 uL (Clear)
			<i>Autoclavable</i>
			<i>Clear</i>
			<i>Laboratory grade</i>
			<i>Size: Pack of 1000 tips</i>
			<i>Capacity: 20 - 200uL</i>
68	set	1	Pipettor Set - Volumetric Pipette Controller and Miropipette Pipettors Complete
			<i>☐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</i>
			<i>☐4- Micropipette set - fully autoclavable; volumes: 2uL-20uL, 10uL-100uL, 100uL-1000uL, 500uL-5000uL; color-coded push buttons for each volume; includes carousel stand</i>
69	kgs	1	Potassium Chloride 500g

			☐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	btl	1	Potassium Chloride, AR, 1000g
71	pc	4	Shrinkage Limit Glass Plate
			<i>Dimension: 3.25x3.25x0.25 in (83x83x6mm)</i>
72	btl	1	Sodium Hexametaphosphate, 500g
73	unit	1	Soil Dispersion Mixer
			<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	pc	35	Soil Sample Rings (Core Sampler)
			<i>Dimension: 50-60mm diameter, 50-60 mm height, outer diameter approx. 53mm with cover or plastic end cups</i>
			<i>Material: Aluminum</i>
75	btl	2	Strontium Chloride
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
76	btl	1	Sulfur Powder, Analytical Grade, 500g/btl
			☐AR grade, 500g per bottle
77	kit	1	Taq Universal SYBR Green Supermix
			<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	tubes	4	Test Organisms for Sensitivity Testing
			<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	btl	1	Toluene
			☐(CAS 108-88-3)
			☐2.5 liters,
			☐Analytical Grade
			☐99.5%,
80	liters	3	Triethanolamine, AR
82	pc	2	Vernier Caliper
			☐Measurement Range:0-200mm
			☐Material:Stainless Steel
			☐Accuracy:0.01mm
			☐Caliper Type:Digital Calipers
83	pc	1	Vortex Mixer
			S-0200- VX-200 Vortex Mixer
84	pc	5	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality)
85	pack	1	Watch Glass
			☐Material: Glass/Borosilicate Glass
			☐Autoclavable: Yes
			☐Outer diameter: 75 mm (7.5cm),
			☐fits 250 mL beakers,
			☐12pcs/pack,
			☐good quality
86	pc	2	Wire Saw for Soil
			Standard:ASTM
87	pc	1	Zahn Cup-Type Viscometer Catalog No. 15-348-50B
			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	pc	1	Zahn Cup-Type Viscometer Catalog No. 15-348-50D
			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	btl	1	Zinc Chloride, Analytical Grade, 500g/btl
			☐AR grade, 500 g per bottle

90	kgs	1	ZINC NITRATE, HEXAHYDRATE AR, 500g
91	sets	5	Clevenger Apparatus 1000ml Capacity
			Specifications:
			<i>Essential oil determination for oil lighter than water</i>
			<i>Heat resistant low expansion 3.3 borosilicate glass transparent</i>
			<i>Round bottom flask 1000 mL, 24/29</i>
			<i>Liebig condenser 300 mm, 24/29</i>
			<i>10 ml extractor with 0 – 10 ml graduation and 0, 1 ml subdivisions (24/29)</i>
			<i>Maximum temp. capacity 400°C</i>
			Parts:
			<i>Condenser</i>
			<i>Clevenger extractor</i>
			<i>Round bottom flask</i>
92	pcs	30	Erlenmeyer flask, Glass, 500ml
			■500ml capacity, borosilicate glass
93	sets	5	Laboratory Iron Stand Support Flask Condenser Clamp Clip Set
			<i>Laboratory Stand height 60 cm</i>
			<i>Iron ring diameter (55 mm, 80 mm & 85 mm)</i>
			<i>Swivel clamp 2 prong 50 mm</i>
			<i>Swivel clamp 3 prong 50 mm</i>
94	meters	10	Natural Red Rubber Tubing
			Size
			<i>Inner diameter (6mm)</i>
			<i>Outside diameter (10mm)</i>
			<i>1.5 mm thick wall</i>
			<i>6.5 mm bore</i>
			Specification
			<i>Application: Laboratory environments, Gas/Water taps, Condenser columns, Bunsen burners, Transferring gases, liquids and diluted acids.</i>
			<i>Product: Natural Rubber Tubing</i>
			<i>Hardness (Shore A): 45°</i>
			<i>Material: Natural Rubber</i>
			<i>Colour: Red</i>
95	pcs	2	Multi-Function high-speed grinding Machine
			Justification
			<i>Large quantity of pulverized sample is required for the extraction of essential oils to facilitate sufficient quantity of essential oil</i>

			<i>needed for physico-chemical and antimicrobial</i>
			analysis.
			Specification
			<i>1kg - 1500 kg capacity</i>
			<i>220 watts voltage</i>
			<i>28000 rpm rotation speed</i>
			<i>pulverizer and swing type</i>
			<i>accessories to include: blade, carbon brush, mesh and manual</i>
			Rebidding (GOODS-22-26)
96	kilos	1	Agar Agar
97	pack	1	Autoclavable plastic bag
			<i>Color: Transparent</i>
			<i>Size: 12" x 12"</i>
			<i>100 pcs/pack</i>
98	pc	1	Ceramic palette, round
			<i>Material: Ceramic</i>
			<i>Color: White</i>
			<i>Shape: Round</i>
			<i>Size: 1" x 7-1/4, 11 wells,</i>
99	unit	1	Dissolve oxygen electrode
			<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	pc	1	Electronic Gel Rocker
			<i>PRODDUCT 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	sets	3	Elisa Immuno Explorer Refill Kit
102	boxes	3	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			<i>Pore size:2.5um</i>
			<i>at least 100 pcs. per box</i>
103	boxes	17	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			<i>Pore size:2.5um</i>
			<i>at least 100 pcs. per box</i>
104	set	1	Glass Vials 2ml
			<i>100Pcs/Set 2ml Graduated Clear Sample Vials Autosampler Vials Bottles Threaded Vial w/ Write-on Spot Screw Caps Septa</i>
105	unit	1	Global Positioning System (GPS)
			<i>Specifications: 4-inch dual-orientation, glove-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	packs	1	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs./pack
			<i>Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm</i>
107	btls	3	Hydrochloric acid, HCl
			<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>
108	sets	3	IDEA Kit-Inquiry Dye Electrophoresis Activity
109	roll	2	nylon weighted rope & calibrated line, 20m
110	roll	2	nylon weighted rope & calibrated line, 20m
			<i>>Heavy Nylon line calibrated from 0 to 20 meter in 1 meter increments.</i>

			>Lower end of line is fitted with brush hook for attachment to sampling devices, Secchi disk, etc.
			>w/ removable 2-lb (0.91kg) lead weight
			>Top end of line is attached to a foam plastic float which also serve as storage reel for line
111	pack	1	Paraffin, Tissue Embedding Medium, Kg
			<i>Tissue Embedding Wax, Medium</i>
			<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>
112	500g ms	1	Para-phenyldiamine
			<i>*used for dyeing specimen (lichens)</i>
113	sets	3	pGLO Bacterial Transformation Reagent Refill Kit
114	pack	3	Plastic cellophane 5"x8"
			<i>Color: transparent</i>
			<i>Size: 5"x8"</i>
			<i>thickness: 03</i>
			<i>100 pcs/pack</i>
115	btl	1	Potassium iodide, KI
			<i>■Analytical reagent grade, powder, 500g/bottle</i>
116	set	1	Replacement Membrane Caps for Dissolve Oxygen Meter
			<i>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.</i>
117	pack	1	Resealable Plastic Bag, Large
			<i>■resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack</i>
118	pack	5	Resealable Plastic Bag, Small
			<i>resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack</i>
119	sets	3	Restriction Digestion and Analysis of Lambda DNA Kit
120	roll	2	Rubber Tubing Latex
			<i>rubber tubing latex 10mm outside diameter, PK-50F, 100feet/roll</i>
121	btl	1	Silica gel, self indicating, blue, 500g
			<i>color: blue</i>
			<i>particle size (beads): 2-5mm</i>
			<i>used as desiccant agent (drying agent)</i>
122	btl	5	Sodium Hexametaphosphate, 500g
123	btls	2	Sodium Hydroxide, AR 500G
			<i>■500 g/bottle, AR, Pellets</i>
124	btl	1	Sodium Thiosulfate, Na₂S₂O₃

			<i>Analytical grade, 100g/bottle</i>
125	btl	3	Sulfuric Acid
			■ <i>Analytical Grade (98%)</i>
			■ <i>2.5 Liters</i>
			■ <i>specific gravity 1.84</i>
126	btl	2	Tertiary Butyl Alcohol (TBA), Technical, 1L/btl
			<i>tert-Butanol, synthesis grade</i>
			<i>(CH₃)₃COH</i>
127	set	1	Tetra Vertical Electrophoresis Cell, 4-gel
			<i>Tetra 4-gel Vertical Electrophoresis System including:</i>
			<i>Tank, lid with power cables, electrode assembly</i>
			<i>Mini cell buffer dam</i>
			<i>Tetra Companion Running Module</i>
			<i>2 casting stands with 4 casting frames</i>
			<i>5 short plates and 5 spacer plates with integrated 1.0 mm spacers</i>
			<i>Five 10-well combs</i>
			<i>Five gel releasers</i>
			<i>TGX Stain-Free FastCast Acrylamide Starter Kit, 10%</i>
			<i>PowerPac Universal Power Supply</i>
			SPECIFICATION
			<i>Number of gels: 1–4</i>
			<i>Cell (tank and lid with power cables): 1</i>
			<i>Companion module (to run up to 4 gels): 1</i>
			<i>10-well combs: 5</i>
			<i>1.0 mm spacer plates (5 plates per box): 1 box</i>
			<i>Short plates (5 plates per box): 1 box</i>
			<i>Casting stands: 2</i>
			<i>Casting frames: 4</i>
			<i>Total buffer volume for 2 gels, ml: 800</i>
			<i>Total buffer volume for 4 gels, ml: 1000</i>
			<i>Typical run time for SDS-PAGE: 35–45 min (at 200 V constant)</i>
			<i>Power supply: PowerPac™ Universal</i>
			<i>Gel format: Mini</i>
128	box	2	Transparent plastic jar with lid, 120ml
			<i>material: plastic</i>
			<i>Color: transparent</i>
			<i>capacity: 120ml</i>
			<i>10 pcs/box</i>
129	box	2	Transparent plastic jar with lid, 150ml
			<i>material: plastic</i>

			<i>Color: transparent</i>
			<i>capacity: 150ml</i>
			<i>10 pcs/box</i>
130	box	2	Transparent plastic jar with lid, 200ml
			<i>material: plastic</i>
			<i>Color: transparent</i>
			<i>capacity: 200ml</i>
			<i>10 pcs/box</i>
131	pack	2	Transparent ziplock bags (20 x 30cm)
			<i>100 pcs/pack</i>
132	unit	1	Tri-power Stereo Microscope
			■ <i>45° advance viewing head which can rotate 360°</i>
			■ <i>locked on 15x wide-field eye piece with diopter adjustment on one ocular tube</i>
			■ <i>magnification of paired objectives: 30x parfocal, 45x parcentered, and 60x achromatic</i>
			■ <i>led lighting</i>
			■ <i>rack and pinion focusing with slip clutch and tension adjustment</i>
			■ <i>adjustable pole mounted cycle</i>
			■ <i>includes a 95mm black and white reversible stage plate</i>
			■ <i>rugged all metal construction</i>
			■ <i>corded</i>
			■ <i>power source: 220-240 V 50/60Hz</i>
			■ <i>with warranty</i>
133	btl	1	Blood Agar Base
			<i>Enrichment medium and used for the hemolysis test.</i>
			<i>supplied in 500g/bottle</i>
134	btl	1	Buffered Peptone Water
			<i>Pre-enrichment broth</i>
			<i>used for isolation and culturing of bacteria.</i>
			<i>supplied in 500g/bottle</i>
135	btl	2	MacConkey Agar
			<i>selective medium</i>
			<i>aids in identifying non-lactose fermenters (transparent or cream colonies) and lactose fermenter (red to pinkish colonies)</i>
			<i>supplied in 500g/bottle</i>
136	btl	2	Mueller Hinton Agar
			<i>Medium used for conducting the antibiotic sensitivity test.</i>
			<i>supplied in 500g/bottle</i>
137	btl	1	Sodium Tellurite at least 10 grams per

			bottle	
			<i>Component of the Baird Parker Agar used in identifying Staph. aureus</i>	

***Section VIII. Checklist of Technical and
Financial Documents***

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid in the amount of *at least 50% of the ABC or at least Nine Hundred Seventy-One Thousand Four Hundred Nineteen and 50/100 Pesos (PhP 971,419.50)*;

or

Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC* or *at least Nine Hundred Seventy-One Thousand Four Hundred Nineteen and 50/100 Pesos (PhP 971,419.50)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least Four Hundred Eighty-Five Thousand Seven Hundred Nine and 75/100 Pesos (PhP 485,709.75)*; **and**

- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;

or

Original copy of Notarized Bid Securing Declaration; **and**

- (e) Conformity with the Technical Specifications; **and**
 (f) Schedule of Requirements/production and delivery schedule; **and**
 (g) Manpower requirements; **and**
 (h) After-sales service/parts; **and**

- (i) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (j) The Supplier’s audited financial statements, showing, among others, the Supplier’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**

- (k) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 1,942,839.00**);

or

A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation (at least 10% of ABC or **PhP 194,283.90**).

II. FINANCIAL COMPONENT ENVELOPE

- (a) Original of duly signed and accomplished Financial Bid Form; **and**
- (b) Original of duly signed and accomplished Price Schedule(s).

Guidelines on the Preparation of Electronic Bid (e-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. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
3. Statement of Bidder's Single Largest Completed Contract	SLCC
4. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
5. Bid Security	Bid Security
6. Technical Specifications	Technical Specifications
7. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
8. Manpower Requirements	Manpower Requirements
9. After Sales service/parts	After Sales
10. Omnibus Sworn Statement	Omnibus Sworn Statement
11. Audited Financial Statements	Audited Financial Statements
12. Net Financial Contracting Capacity	NFCC
13. Committed Line of Credit	CLC
14. Bid Form	Bid Form
15. 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 (September 7, 2022; 8:30 AM).



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