



BID BULLETIN 01

Date: 17 July 2023

Project Title: *Supply and Delivery of Laboratory Equipment, Supplies and Chemicals (VSU-GOODS-23-30)*

Location: VSU Main, Visca, Baybay City, Leyte

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

I. LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
<i>Technical Documents</i>	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php 3,906,990.08)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 3,906,990.08 and the largest of which should be at least PhP 1,953,495.04.00 .
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 7,813,980.16)
	Or
	Committed Line of Credit (at least Php 781,390.01)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

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

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

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

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

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

- 1. **Scan per document** into Portable Document Format (PDF) and should be printable.
- 2. Properly label all scanned 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/ 8. Production and delivery schedule	Schedule of Requirements
9. Manpower Requirements	Manpower Requirements
10. After Sales service/parts	After Sales
11. Omnibus Sworn Statement	Omnibus Sworn Statement
12. Audited Financial Statements	Audited Financial Statements
13. Net Financial Contracting Capacity	NFCC
14. Committed Line of Credit	CLC
15. Bid Form	Bid Form
16. Price Schedule	Price Schedule



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

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

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

III. Changes in the Bidding Documents

Original									
<p>Section I. Invitation to Bid</p> <p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>01 July – 24 July 2023 until 1:30 PM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p><i>(Amendment)</i></p> <p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>01 July – 24 July 2023 until 1:30 PM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The amount of applicable fee will depend on the total ABC quoted as shown below.</p> <table border="1" data-bbox="871 1288 1481 1462"> <thead> <tr> <th>Total ABC Quoted</th> <th>Applicable Fee</th> </tr> </thead> <tbody> <tr> <td>1,000,000.00 and below</td> <td>1,000.00</td> </tr> <tr> <td>1,000,001.00 to 5,000,000.00</td> <td>5,000.00</td> </tr> <tr> <td>Above 5,000,001.00</td> <td>10,000.00</td> </tr> </tbody> </table> <p>The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p>The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:</p> <p>Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u></p> <p>Then send the deposit slip to jessamine.ecleo@vsu.edu.ph</p>	Total ABC Quoted	Applicable Fee	1,000,000.00 and below	1,000.00	1,000,001.00 to 5,000,000.00	5,000.00	Above 5,000,001.00	10,000.00
Total ABC Quoted	Applicable Fee								
1,000,000.00 and below	1,000.00								
1,000,001.00 to 5,000,000.00	5,000.00								
Above 5,000,001.00	10,000.00								



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

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

Item No.	Description	Unit	Qty	ABC/Unit (Pesos)	Total ABC (Pesos)
1	Burette Brush ■big size for 50 mL burette;	piece	5	150.00	750.00
2	Test Tube Racks, 12mm x 12 Holes Stainless Steel Holes Test Tube Rack	pcs	5	600.00	3,000.00
3	Test Tube Rack, 20mm x 24 tubes ■Stainless Steel, 20 mm diameter holes, capacity 24 test tubes;	pc	5	800.00	4,000.00
4	Graduated Cylinder, Glass, 250mL ■Material: Borosilicate Glass ■Good Quality	pc	5	600.00	3,000.00
5	10 ml Type 1, class A borosilicate glass Graduated Cylinder	pcs	10	250.00	2,500.00
6	Graduated Cylinder, Glass, 100mL ■Type 1, Class A Borosilicate Glass	pcs	10	400.00	4,000.00
7	Serological Glass Pipette, 25mL Autoclavable Borosilicate glass Graduation: 0.2mL Intervals Capacity: 25mL	pc	10	850.00	8,500.00
8	Rubber pipette bulb red for 50-mL pipettes;	pcs	5	700.00	3,500.00
9	Aluminum Burette Clip Titration Clamp compatible with the 50 ml capacity Glass Burette materials is Aluminum	pc	5	500.00	2,500.00
10	Hot Plate ■79-1 1000ml Hot Plate Magnetic Stirrer Lab Heating Speed Control Mixer 220V AU Plug	pcs	5	4,000.00	20,000.00
11	Burette clamp ■Good Quality ■Double Burette Clamp ■Can Hold 50mL Burette	pc	10	1,510.00	15,100.00
12	Laboratory Burette Stand ■Standard laboratory burette stand ■Good quality White PE Burette Stand ■Heavy duty white polyethylene burette stand comes with a polyethylene coated metal rod which screws into the base. ■Whichever is available, with the hole in the center	pc	10	1,000.00	10,000.00



	(center weighted) or at the short edge (edge weighted) as long as the 3 burette stands are the same (ex. if center weighted, then all 3 should be center weighted).				
13	Burette with Rubber Tube, stopper and dropper	pc	10	3,800.00	38,000.00
	☐Burette with Rubber Tube, stopper and dropper				
	☐Material: Glass/Borosilicate Glass				
	☐Capacity: 50mL				
	☐For Base				
14	Burette with Glass Stopcock	pc	11	4,000.00	44,000.00
	☐Burette with Glass Stopcock				
	☐Material: Glass/Borosilicate Glass				
	☐Capacity: 50mL				
	☐For Acid				
15	Rechargeable precision top loading balance	unit	1	30,000.00	30,000.00
	☐Capacity: 10 kg				
	☐readability: 0.1 g				
	☐linearity: +/- 0.3g				
	☐repeatability: 0.3g				
	☐weighing units: gram, kilogram, pound, carat, Newton				
	☐display: LCD				
	☐Built-in application: check weighing, parts counting, percent setup, unstable conditions, peak hold				
	☐interface: RS-232 port				
	☐Operating temperature range: 15 to 30 degrees C				
	☐Compliance: CE				
	☐Power: rechargeable battery with 240V AC adapter				
	☐weight: 2.8 -3 kg				
	☐weighing pan: 195 x 195 mm (W x D)				
	☐overall dimension: 97 x 206 x 333 mm (H x W x D)				
16	Triple Beam Balance	pc	10	3,500.00	35,000.00
	☐Capacity - 2610g				
	☐Readability - 0.1g				
	☐Repeatability - 0.2g				
	☐Pan size - 152mm ø				
17	Alcohol Thermometer 200 °C	pcs	30	500.00	15,000.00
	unit scale: degree Celsius range: max 200 degree Celsius length: approx 30cm material: traditional glass alcohol thermometer mounting: tube type				
18	Aluminum Breadboard	unit	2	100,000.00	200,000.00
	350 mm x 1425 mm x 12.7 mm, M6 Taps				
19	Microscope temperature stage Peltier System	unit	1	200,000.00	200,000.00
	Specifications				
	Simple stage for quick experiments on upright and inverted microscopes. Peltier System stage is a simple to use thermoelectrically cooled stage that accurately controls the temperature of microscope slides to +/-0.1°C from -25 to 120°C. The features are the following:				
	Sample area 35 x 32mm				
	5mm aperture				
	Heating/Cooling rate 0.1 to 20°C/min				
	Temperature Range -25°C to 120°C				
	Control and Stability +/- 0.1°C				
	Pt100 temperature sensor				
	LCD touch screen control				
	DC power control				
	RS232 and USB connectivity				



	Minimum objective working distance 0.1mm				
	Minimum condenser working distance 5mm				
	Stage size 105 x 150mm				
	PE120XY stage size 160 x 110mm				
20	Two channel programmable syringe pump	unit	1	100,000.00	100,000.00
	Holds 2 Syringes up to 60 mL each, can be different sizes				
	Both syringes operate in sync. Independent syringe operation, including "Push-Pull", available with the Dual Pump System.				
	Infusion rates from 1.436 μ L/hr (1 mL syringe) to 7515 mL/hr (60 mL syringe)				
	Easy-to-use keypad interface				
	One-click program upload from "Pumping Program Generator" spreadsheet				
	Space Saving Chassis: Foot print size of only 5 3/4" x 8 3/4"				
	Won't take up unnecessary space on your laboratory or production bench				
	Input voltage: 220 V AC				
	Output voltage: 12 V DC				
21	Homogenizer/ Dispersing Instrument	unit	1	180,000.00	180,000.00
	Small dispersing instrument for volumes from 0.5 - 100 ml (H ₂ O). It offers a wide speed range from 8000 – 30,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters. A broad choice of dispersing elements guarantees a wide range of applications. <i>or higher</i>				
	Voltage: 230 V, 50/60 Hz				
	Power Rating: 125-180 W				
22	Michelson Interferometer Educational Kit	unit	1	402,000.00	402,000.00
	Designed for Educational, Demonstration, and Classroom Use				
	Complete Photonics Kit Includes All Hardware Except Variable Power Supply for the Thermal Expansion Experiment (12 VDC, 2 A)				
	Extensive Manual and Teaching Materials Provided				
	Easy to Assemble and Use				
	Choose from Educational Kits Containing Imperial or Metric Components				
	Metric Kit				
23	PLN 100x Objective Lens and Fluoro-Max Dyed Green Aqueous Fluorescent Particles	lot	1	191,394.16	191,394.16
	1. PLN 100x Objective Lens				
	Compatible Cover Glass Thickness (mm): N/A				
	Field of View (mm): 0.22				
	Focal Length FL (mm): 1.8				
	Model Number: 1-U2B235				
	Length excluding Threads (mm): 44.7				
	Magnification: 100X				
	Maximum Diameter (mm): 24				
	Numerical Aperture NA: 1.25				
	Mounting Threads: RMS / 20.32mm x 36 TPI				
	Compatible Tube Lens Focal Length (mm):				
	Focal Length: 180mm				
	Type: Microscope Objective				
	Weight (g): 114				
	Working Distance (mm): 0.15				
	Resolving Power (μ m): 0.27				



	Depth of Field (μm): 0.27				
	Field Number (mm): 22				
	Parfocal Length (mm): 45				
	Style: Infinity Corrected				
	Manufacturer: Olympus				
	Immersion Liquid: Oil				
	Depth of Focus (μm): 1760				
	2. Fluoro-Max Dyed Green Aqueous Fluorescent Particles				
	Specifications:				
	Diameter= 0.10 μm				
	Quantity= 15 ml				
	Additive: Trace amounts of surfactant to inhibit agglomeration and promote stability				
	Concentration: 1% solids				
	Contents: Dyed polystyrene microspheres in water				
	Color: Green				
	Material: Polystyrene				
	Product Type: Fluorescent Particle				
	Dye Type: Firefli™ Fluorescent Green (468/508nm)				
	Includes: Package Insert Sheet				
	Particle Density : 1.05g/cm ³				
	Quantity: 15ml				
	Refractive Index: 1.59 at 589nm (25°C)				
	Stability: Product stable for a minimum of 24 months				
	Uniformity: <10%				
	Diameter (Metric) Mean: 0.1 μm				
	Diameter (Metric) Nominal: 0.1 μm				
	Diameter (Metric): 0.10 μm				
	Unit Size: Each				
24	Micro pipette, with stand, P10 (0.5-10ul) with tips	unit	2	8,060.00	16,120.00
25	Micro pipette, with stand, P2 (0.2-2ul) with tips	unit	1	8,060.00	8,060.00
26	Gram Stain	btls	1	2,826.00	2,826.00
	Diagnostic Reagents: Packaging Box/set Grams Grams Crystal violet 500 ml, Grams Iodine 500 ml, Grams stain decolorizer, Safranin 500 ml				
27	High Duty Blender	unit	1	7,000.00	7,000.00
	-Power – 375-watt motor				
	– Speed – 10-speed push button				
	– Function – Controlled/pulse blending (buttons 1-3) or continuous blending (buttons 4-10)				
	– Durability – Exclusive All-Metal Drive™ system				
	– Blade – High performance ice-crushing stainless steel blade				
	– Capacity – 5-cup (1.25L) heat-resistant glass jar				
	– Warranty – 1 Year Household Warranty				
	– Dimensions – 26 x 18 x 32 cm				
28	Micro pipette, with stand, P200 (20-200ul) with tips	unit	1	8,060.00	8,060.00
29	Micro pipette, with stand, P1000 (200-1000ul) with tips	unit	1	8,060.00	8,060.00
30	Freezer (Upright)	unit	1	49,000.00	49,000.00
	Warranty:				
	2-year compressor warranty				
	3 years Parts and Labor Warranty				
	Capacity (cu.ft.): 10.8				
	Capacity (L): 308				
	Inverter Technology: Inverter				
	Refrigerator Frost System: Manual				



	Color: Gray				
	Refrigerant Type: R-600A				
	Power Consumption: 115 W				
	Weight: 54 kg				
	Dimension (WxDxH): 96 x 715 x 1,705 mm				
	Power Voltage- 220-240v				
	Features:				
	High Energy Efficiency R600a Inverter Compressor				
	Direct Cool Technology				
	Quick Freezing				
	Roll bond Evaporator Shelves				
	7 Shelves + Bottom pan				
	Door Storage Shelf				
	Ice Scraper				
	Manual Defrosting				
	Adjustable Leg				
31	PCR Thermal Cycler for 0.2ml tubes	unit	1	500,000.00	500,000.00
	Sample capacity: 96 x 0.2 ml, 8-strip, 24 x 0.2 ml plate				
	Cooling technology: Peltier				
	Temperature control range: + 4 ~ +99°C				
	Heating speed of ramping: up to 6.0°C /sec				
	Cooling speed of ramping : at least 3.0°C /sec				
	Block temp. uniformity: ± 0.1-0.3°C				
	Block temp. accuracy: at most ± 0.3°C				
	Display resolution: 0.1°C				
	Temp. control mode: Block or Tube				
	Ramping rate adjustable: 0.1°C - 4°C				
	Memories: 250 typical programs (unlimited by USB)				
	Max. cycles: 99 cycles for Nested PCR				
	Time up/down: 0-9 min59s, suit for Long PCR				
	Temperature up/down: 0.1 - 9.9°C suit for Touchdown PCR				
	Soak function: Yes				
	Gradient range: within the range of 30°C ~ 105°C				
	Temp. differential range: 1°C ~ 30°C				
	Temp. of hot lid: within the range of 30°C -120 °C (Temp. / pressure adjusted)				
	Size: 335 (W) x 260 (D) x 270 (H) mm-delete				
	Weight: 8 kg-delete				
	Interface: 1 x USB				
	Power Supply: 100 - 240V, 50-60 Hz <= 600W				
	Power Voltage: 220-240v				
	with at least 800W UPS and AVR				
	WITH WARRANTY AND REPAIR SERVICE FOR AT LEAST 1 YEAR				
32	centrifuge (mini)	unit	1	8,000.00	8,000.00
	Power supply AC 220V-240V,50Hz/60Hz				
	can accommodate 0.2ml PCR tubes and 1.5 or 2ml				
	speed accuracy is high				
	with secure door lock design				
	easy to operate quick disassembly of rotor				
	Speed: at least 4000 rpm				
	Relative centrifugal acceleration (xg) 2680				
	Rotor 8x0.5/1.5/2.0ml centrifuge tube				
	DC motor				
33	Sabouraud Dextrose Agar	btl	2	4,800.00	9,600.00
	500g				
34	Low melting point Agarose Powder 125 g	btl	4	15,900.00	63,600.00



	Gelling Temp: 36.0-36.5 °C				
	Moisture Content: 3.29%				
	Sulfate: 0.096%				
	EEO (-mr): 0.12				
	Gel Strength: 1230g/cm2				
	RNase/DNase Activity: None Detected				
35	Potato Dextrose Agar (500g)	btl	4	6,000.00	24,000.00
	Powder form				
36	PCR Tubes	pack	1	6,700.00	6,700.00
	Capacity: 0.2ml				
	Quantity: 1000 pcs				
37	Micro centrifuge tubes	pack s	2	3,400.00	6,800.00
	1.5ml capacity				
	2000 pcs				
	Conical Bottom with flat cap				
38	Triton 500 ml	btls	2	3,000.00	6,000.00
	500 ml (16 oz) Plastic Bottle				
	High Purity 99%: NOT Diluted				
39	CTAB	btl	4	3,000.00	12,000.00
	500g, AR				
40	DNA Ladder 100Bp	vial	2	9,200.00	18,400.00
	DNA Ladder 100bp, for at least 50 lanes, with loading dye				
41	Yeast Extract	btls	2	4,000.00	8,000.00
	500g/bottle				
	in powder form				
	Appearance : Light yellow to brownish yellow homogenous free flowing powder having characteristic odour but not putrescent.				
	Solubility : Freely soluble in distilled/ purified water, insoluble in alcohol.				
	Clarity : 2% w/v aqueous solution remains clear and neutral without any haziness after autoclaving at 15 lbs pressure (121C) for 15 minutes.				
	Reaction : Reaction of 2% w/v aqueous solution at 25C.				
	pH : 6.50- 7.50				
42	Vinyl Sheet	roll	1	3,000.00	3,000.00
	Transparent				
	1.5mm thickness				
	10 meters				
43	Isopropanol	btl	1	8,000.00	8,000.00
	Molecular grade/DNA Extraction				
	In 2.5 L Amber bottle				
44	1000 µL pipette tips (Blue or clear)	pack	3	1,000.00	3,000.00
	1000 µL pipette tips (Blue) at least 1000 pcs. per pack				
45	Delicate Task Wiper	pack	20	200.00	4,000.00
	4.4 x 8.4 inches				
	Low lint and low extractable				
	Absorbs 18 percent more water than other private label wipers				
	Absorbs water 24 percent faster than other private label wipers				
	One at a time dispensing				
	Won't scratch delicate surfaces when wet				
46	Microcentrifuge Tube Rack	piece s	10	760.00	7,600.00



	5 pieces micro centrifuge tube rack for 1.5 ml with 96 holes				
	5 pieces micro centrifuge tube rack for 2.0 ml with 96 holes				
47	Amber Reagent Bottle, 500mL	pc	10	750.00	7,500.00
	With Stopper/Screw Cap				
	Material: Glass/Borosilicate Glass				
	Capacity: 500mL				
48	200 µL pipette tips (Yellow or clear)	pack	5	500.00	2,500.00
	200 µL pipette tips (Yellow) at least 1000 pcs. per pack				
49	0.5-10 µL pipette tips (white)	pack	3	1,000.00	3,000.00
	0.5-10 µL pipette tips (white) at least 1000 pcs. per pack				
50	Sodium dodecyl sulfate (SDS)	btl	1	27,000.00	27,000.00
	☑Molecular biology grade, at least ≥99.0% assay quality				
	☑Suitable for protein analysis and electrophoresis				
	☑Dnase-free and Rnase-free				
	☑Phosphatase-free and proteases-free				
	☑Bottle of at least 500g				
51	Boric acid, AR	btl	1	2,000.00	2,000.00
	Certified molecular biology grade				
	Suitable for electrophoresis, ≥99.5%				
	Size: 500g per bottle				
52	150mm x15mm Disposable Plastic Petri Dish	pack	1	3,000.00	3,000.00
	150mmx 15mm				
	50 pcs				
53	90mm x 15 mm Disposable Plastic Petri Dish	pack	1	1,000.00	1,000.00
	90mm x 15mm				
	50 pcs				
54	EDTA	btl	1	6,900.00	6,900.00
	☑500g				
	☑A.R				
	☑monobasic				
55	Glass Petri Dish	pack	1	13,500.00	13,500.00
	100mmx15mm, 50 pcs/pack				
56	Masking tape, autoclavable, for laboratory use	rolls	4	450.00	1,800.00
	1" wide x 55m length				
57	Microcentrifuge Tubes (2.0mL Capacity)	pack	1	2,000.00	2,000.00
	☑2.0mL Capacity				
	☑clear				
	☑safe-lock				
	☑pack of 1000				
	☑autoclavable				
58	Casein	packs	10	1,300.00	13,000.00
	Food grade casein 1kg/pack				
59	dNTP Solution Mix	kit	4	12,500.00	50,000.00
	☑Molecular biology grade				
	☑Premixed dNTP solution				
	☑10 mM each dATP, dCTP, dGTP, and dTTP				
	☑Size: 100uL				
60	Ethanol Absolute	btl	3	3,100.00	9,300.00
	2.5 Liters/ bottle				
61	Ethanol Absolute	btl	2	2,500.00	5,000.00
	2.5 Liters/ bottle				



62	Rectangular Canted Neck Cell Culture Flask, 250 pcs/box	box	1	13,500.00	13,500.00
	<i>25 cm² with Blue Plug Seal Screw Cap, 50 ml capacity</i>				
63	Test Tubes	pack	1	3,000.00	3,000.00
	<i>Rimless</i>				
	<i>Borosilicate Glass</i>				
	<i>Plain Neck</i>				
	<i>No graduations</i>				
	<i>16x150mm</i>				
	<i>clear</i>				
	<i>100/pack</i>				
64	Autoclavable Plastic bag	pack	2	3,600.00	7,200.00
	<i>12x24 inches 100 pcs / pack 2mm thickness</i>				
65	250 ml Reagent/ Media Bottle	pcs	5	470.00	2,350.00
	<i>Clear bottles</i>				
66	500 ml Reagent/ Media Bottle	pc	5	560.00	2,800.00
	<i>Clear bottles</i>				
67	Sodium Hydroxide, AR 500G	btls	2	1,200.00	2,400.00
	<i>500 g/bottle, AR, Pellets;</i>				
68	PCR Tube Rack with Cover	pc	5	650.00	3,250.00
	<i>For PCR tubes storage</i>				
	<i>Material: PP Autoclavable. Convenient Polypropylene</i>				
	<i>Rack for 0.2 ml PCR tubes strips and plates.</i>				
	<i>This rack is stackable with or without lid.</i>				
	<i>Capacity: 96</i>				
69	Pipette Tips, 20 - 200 uL (Clear)	pack	3	600.00	1,800.00
	<i>Autoclavable</i>				
	<i>Clear</i>				
	<i>Laboratory grade</i>				
	<i>Size: Pack of 1000 tips</i>				
	<i>Capacity: 20 - 200uL</i>				
70	Sodium Chloride	btl	1	750.00	750.00
	<i>Analytical Reagent Grade 500g per bottle</i>				
71	Hydrochloric acid, HCl	btls	3	1,000.00	3,000.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>				
72	Sterile Petri Dishes	pack	1	10,000.00	10,000.00
	<i>Material: Polystyrene</i>				
	<i>Diameter: 50mm</i>				
	<i>Height: 9mm</i>				
	<i>100/pack</i>				
	<i>ideal for microbiological analysis when performing the Membrane Filter (MF) Technique</i>				
73	Taq Mastermix	btls	4	13,500.00	54,000.00
	<i>Certified molecular Biology grade</i>				
	<i>Ready to Use Reaction Mix</i>				
	<i>Mixture includes an enzyme, dNTPs, MgCl₂, SYBR Green I Dye, enhancer, stabilizer</i>				
	<i>Size: 2 x 1mL (200x x 20uL rxn)</i>				
74	Magnesium Chloride	btl	1	1,050.00	1,050.00
	<i>500g/bottle</i>				
	<i>AR Grade</i>				
75	Pipette Tip racks	pc	6	1,000.00	6,000.00
	<i>pipette racks for 0.5-10ul, 20-200ul, 1000ul</i>				
	<i>2 pieces for each sizes</i>				
	<i>with at least 96 holes</i>				
	<i>autoclavable</i>				
76	High-Clarity Polypropylene Centrifuge Tube	pack	1	8,300.00	8,300.00
	<i>50 ml</i>				



	Sterile				
	Conical Bottom				
	500/pack or case				
	with Approximate dimensions of 30mm O.D.; 115mm length				
	with Dark blue printed graduations and white writing patch				
	with Polyethylene flat-top screw cap allows one hand manipulation and provides a level writing area				
77	Proteinase K (1ml)	tubes	10	2,200.00	22,000.00
	1ml/ tubeMolecular Grade				
78	Refrigerated Microlitre Centrifuge	unit	1	400,000.00	400,000.00
	Capable of centrifuging up to 44 x 1.5 / 2.0 ml, it features a versatile control panel allowing for storage of up to 99 runs. The powerful refrigeration system keeps samples at temperatures as low as 4°C during a continuous run at 20000 xg.				
	Maintenance-free induction drive				
	Microprocessor with large LCD Display				
	Motor driven lid lock				
	Active imbalance-identification and -cut off				
	Standstill cooling				
	Audible signal at the end of each run				
	Rapid acceleration and deceleration (see rotor data)				
	Lowest sample temperature 4°C at 20000 xg				
	Noise level < 56 dBA at 20000 xg				
	Extremely compact with a space saving footprint				
	Quick access to samples with a snap on lid				
	Aerosol tight rotor option				
	Manufactured according to international safety regulations, i.e. IEC 1010				
	Distinct Control Panel				
	-Simple one handed operation				
	• Easy to program with gloves on				
	• Foil keyboard				
	• Permanent indication of preset and actual values				
	• Selection of speed in both rpm and g-force, with increments of 10				
	• „Quick“- key for short runs				
	• 10 acceleration and deceleration rates				
	• Storage of up to ninety nine runs				
	• Temperature range from -20° to 40°C				
	• Input and indication of temperature either in °C or °F				
	Pre-cooling program (Pre-cooling time from room temperature to +4°C<10 min)				
	Pre-selection of the running time from 10 sec to 99h 59 min or continuous				
	Max. Speed: 1500 min-1				
	Max RCF: 21380xg				
	Max Volume: 44x 1.5/2.0 ml				
	Speed Range: 200-1500 rpm				
	Running Time: 59 min 50sec/ 10 sec increments, 99h 59 min/1min increments				
	Dimensions (WxHxD): 28cm x 29cmx 55cm				
	Weight: 35kg				
	Power Consumption: 500W				
	Voltage Req.: 220-240 volts				
79	(mini) gel documentation system viewer	unit	1	49,000.00	49,000.00



	<i>Gel doc imaging system for smart phone cameras.</i>				
	<i>Hood dimensions: 17cm (W) x 17cm(D) x 14cm(H)</i>				
	<i>Compact design: 21cm (D) x 21cm (W) x 17cm (H) with Ultrathin LED Illuminator system</i>				
	<i>Power voltage: 220-240v</i>				
80	Utility Gloves, Rubber, Large, Non-Sterile	pair	30	140.00	4,200.00
81	100 mm glass petri dish	pcs	30	420.00	12,600.00
82	Inoculating Loop Stainless Steel	pack	1	4,200.00	4,200.00
	☐10PCS/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology;				
83	Scalpel Handle	pcs	3	70.00	210.00
	☐#4, Stainless steel;				
84	Scalpel Blade	box	2	280.00	560.00
	☐Stainless steel				
	☐100 blades/box				
85	Lactophenol Cotton Blue Solution	btl	1	6,825.00	6,825.00
	250ml				
86	Nutrient Agar, 500g Bottle	btl	1	7,300.00	7,300.00
	<i>to be used for the culture of test organisms</i>				
	<i>nutrient medium used for the cultivation of microbes supporting growth of a wide range of non-fastidious organisms</i>				
	500g bottle				
	<i>recommended for the cultivation of less fastidious microorganisms from clinical and nonclinical samples. It can be enriched with blood or other biological fluids.</i>				
	<i>Ingredients:</i>				
	<i>Peptone - 5 gms/liter</i>				
	<i>HM Peptone B # - 1.50 gms/liter</i>				
	<i>Yeast Extract - 1.50 gms/liter</i>				
	<i>Sodium Chloride - 5.00 gms/liter</i>				
	<i>Agar - 15.00 gms/liter</i>				
	<i>Final pH (at 25°C) 7.4±0.2</i>				
	<i>**Formula adjusted, standardized to suit performance parameters</i>				
	<i>*Equivalent to Beef extract</i>				
87	Glycerol	btl	1	19,530.00	19,530.00
	☐Molecular biology grade, ≥99.0% assay quality				
	☐Suitable for cell culture, insect cell culture, and electrophoresis				
	☐Dnase-free, Rnase-free, NICKase-free, and protease-free				
	☐Liquid form				
	☐Bottle of 500mL				
88	Vernier Caliper	pc	1	3,600.00	3,600.00
	☐Measurement Range:0-200mm				
	☐Material:Stainless Steel				
	☐Accuracy:0.01mm				
	☐Caliper Type:Digital Calipers				
89	Microscope Slides and cover slips	boxes	3	420.00	1,260.00
	☐Pre-Cleaned Blank slides with 50pcs./box 22 x 22 mm square Cover Slip				
90	Nitrile Gloves, Small	box	5	1,500.00	7,500.00
	<i>Glove Type: Chemical Resistant Disposable Gloves</i>				
	<i>Glove Material: Nitrile</i>				
	<i>Powder-Free</i>				
	<i>1 box of 100 pcs. or 50 pairs</i>				



	<i>Food Safe</i>				
	<i>Size: small</i>				
91	Sodium citrate	btl	1	3,000.00	3,000.00
	<i>Sodium citrate is the sodium salt of citric acid. It is white, crystalline powder or white, granular crystals, slightly deliquescent in moist air, freely soluble in water, practically insoluble in alcohol.</i>				
	<i>it is used as alkalinizing agent by neutralizing excess acid</i>				
	<i>1 kg- bottle</i>				
92	3,5-Dinitrosalicylic acid (DNS)	btl	1	18,400.00	18,400.00
	<i>Analytical Reagent, at least ≥98% assay activity</i>				
	<i>Use for colorimetric determination of reducing sugars</i>				
	<i>Hematology and histology: suitable</i>				
	<i>Bottle of at least 100g</i>				
93	Agarose LE	btl	2	13,000.00	26,000.00
	<i>100g</i>				
94	100 mm glass petri dish	pcs	50	300.00	15,000.00
95	6x Loading Dye (with xylene cyanol gel loading dye), 5 x 1ml	boxes	1	2,600.00	2,600.00
	Contains 2 dyes; bromophenol blue and xylene cyanol FF to track DNA migration during electrophoresis.				-
96	Agar Agar	kilos	3	2,800.00	8,400.00
97	Alcohol, Denatured, at least 3.8 liters per gallon	gallons	6	600.00	3,600.00
98	Pressure Canner/ Steam Sterilizer (Non Electric)	pc	1	48,875.00	48,875.00
	For a 27.9 Qt Inner Capacity Container Sterilizer:				
	Capacity - (27.9 Qt Inner Container Capacity)				
	Overall Height - 19 inches				
	Bottom Height - 14 1/4 inches				
	Inside Diameter - 15 1/4 inches				
	For a 28 Qt Inner Capacity Container Sterilizer:				
	Inside Depth - 10 1/2 inches				
	Inside Diameter - 14 inches				
	Circumference - 44 1/2 inches				
	Capacity - 28 Quarts				
	Made in the U.S.A.				
	For a 25 Qt Inner Capacity Sterilizer:				
	Includes 2 cooking/canning racks and instruction & recipe book				
	Capacity - 25 Quarts (Liquid), 19 Pint Jars, 7 Quart Jars				
	Inside diameter - 12 5/8 inches				
	Inside Height - 11 7/8 inches				
	Overall Height - 16 3/4 inches				
	*Jar capacities are based on round regular mouth standard Mason jar sizes.				
	Made in the U.S.A.				
	Professional quality, extra heavy duty cast aluminum construction throughout				
	for fast & even heating				
	· Stay-cool bakelite top handle				
	· Geared steam gauge				
	· Equipped with 2 automatic venting features which provide an extra margin of				
	safety (the safety control valve & overpressure plug)				
	· Pressure regulator weight with settings of 5, 10 and 15 psi				



	· Smooth, easy to clean satin finish				
	· Double thickness edges for additional protection on points of heaviest wear				
99	Ascorbic acid	btl	1	1,800.00	1,800.00
	☐Analytical reagent grade, crystalline powder, 25 g/bottle				
100	Beaker, Glass, 1000mL	pc	2	1,000.00	2,000.00
	☐1000mL capacity, borosilicate glass;				
101	Beaker, Glass, 100mL	pc	15	500.00	7,500.00
	☐100mL capacity, borosilicate glass;				
102	Beaker, Glass, 250mL	pc	15	400.00	6,000.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
103	Beaker, Glass, 500mL	pc	10	1,000.00	10,000.00
	☐500mL capacity, borosilicate glass;				
104	Beaker, Glass, 50mL	pc	20	400.00	8,000.00
	☐50mL capacity, borosilicate glass				
105	Buffer Solution pH 4, 500 mL	btl	1	2,500.00	2,500.00
106	Buffer solution, pH 7, 1000 ml.	btl	1	1,000.00	1,000.00
107	Buffer solution, pH 9, 1000 ml.	btl	1	1,000.00	1,000.00
108	Burette with PTFE Stopcock	pc	1	3,800.00	3,800.00
	☐Burette with PTFE Stopcock				
	☐Material: Glass/Borosilicate Glass				
	☐Capacity: 50mL				
109	Crucible with cover	pc	20	150.00	3,000.00
	☐porcelain container				
	☐Porcelain Crucible with Lid (High Form), 30ml				
	☐Height: 43m				
	☐Base: 24mm Diam.				
	☐Top: 33mm Diam.				
110	dNTP set, 100mM Solutions, 4x0.25 mL	box	1	12,000.00	12,000.00
	Contents:				
	100mM each of dATP, dCTP, dGTP, and dTTP. Store at -30°C to -10°C.				
111	Filter Paper, 12.5 cm. Ashless #42 or equivalent	boxes	5	2,000.00	10,000.00
	☐Pore size:2.5um				
	☐at least 100 pcs. per box				
112	Hand Soil Auger	unit	3	3,500.00	10,500.00
	☐Material: stainless steel				
	☐Auger length: 25cm				
	☐Length: 0.5m				
	☐External Diameter: 38mm				
113	Infrared Thermometer for Food	pc	1	700.00	700.00
	Non-Contact LCD IR Laser Infrared Digital Infrared Kitchen Thermometer				
	range: -50 ~ 600°C (-58~1112°F).				
	Accuracy: ±1.5% or ±1.5°C				
	Resolution: ±1% or ±1°C				
	Distance Spot Ratio: 12:1				
	Emissivity reading				
	Resolution: 0.1°C/0.1°F				
114	Laser Safety Glasses	lot	1	125,000.00	125,000.00
	LG4- Laser Safety Glasses- 2 pcs. At PhP 25000 each= PhP 50,000.00				
	Specifications:				
	Dark blue lenses				



	12% Visible Light Transmission				
	Universal Style				
	Optical Density (190- 400 nm= 5+, 625-850 nm= 4+, 662-835 nm=5+, 633= 5+)				
	LB Rating (625- 670 nm= I LB4, 625- 830 nm= DR LB4, >670- 800 nm= I LB5				
	LG1 Laser Safety Glasses- 2 pcs. each at PhP 25,000 pesos each = PhP 50,000.00				
	Specifications:				
	Light green lenses				
	59% Visible Light Transmission				
	Universal Style				
	LG6 Laser Safety Glasses- 1 pc. at PhP 25,000 pesos				
	Specifications:				
	Clear lenses				
	93% Visible Light Transmission				
	Universal Style				
	Optical Density (190- 398 nm= 7+, 9000-11000 nm= 7+)				
	LB Rating (190- 315 nm= DLB7, 9000-11000 nm=DILB3)				
115	Nutrient Agar	btl	2	5,455.00	10,910.00
	☑500g;				
116	Pipette Tips 5ml	packs	2	1,400.00	2,800.00
	☑100 pcs of 5-ml pipette tips per pack				
117	Potassium antimony tartrate	btl	1	3,800.00	3,800.00
	Analytical reagent grade, 500g/bottle				
118	Potassium chloride (KCl) solution	btl	1	5,090.00	5,090.00
	☑Molecular biology grade, Rnase-free				
	☑For use with mammalian cell and tissue extracts				
	☑Liquid form				
	☑2M concentration				
	☑Bottle of 100mL				
119	Potassium dichromate, AR Grade	btl	1	1,550.00	1,550.00
	☑500 grams/poly bottle				
120	Potato Dextrose Agar (PDA), 500 grams	btl	2	4,500.00	9,000.00
121	sodium carbonate	kgs	1	1,000.00	1,000.00
	sodium carbonate - analytical grade, 1.00 kg;				
122	Sodium Hexametaphosphate, 500g	btl	2	800.00	1,600.00
123	Standard Method Agar (PCA)	btl	2	4,500.00	9,000.00
	Plate Count Agar; 500g;				
124	Sulfuric acid, H2SO4	btls	1	1,200.00	1,200.00
	☑Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle;				
125	Taq DNA Polymerase (5U/μl), 500U	boxes	3	6,000.00	18,000.00
	Contains:				
	• 1000 μl Taq DNA Polymerase (5 U/μl)				
	• 20 ml 10X PCR buffer (without magnesium)				
	• 10 ml Magnesium Chloride (50 mM)				
126	VC100bp DNA Ladder, 50μg	tube	2	8,000.00	16,000.00
	Concentration : 0.5μg/μl;				
	Rebidding (from VSU-GOODS-23-17)				
127	Acetone	gal	4	1,600.00	6,400.00
	☑Acetone, Technical Grade				
	☑1gal				
128	Agar (E-406)	bot	4	2,400.00	9,600.00



	☑Pronadisa				
	☑500g/bot				
	☑For plant tissue culture				
129	Agar Agar	kg	1	8,500.00	8,500.00
129a	Agar for plant cell and tissue culture	bot	1	8,500.00	8,500.00
	500 grams/bot				
130	Agar for plant cell and tissue culture	bot	1	7,300.00	7,300.00
	500 grams/bot				
131	ammonium molybdate	bot	1	1,500.00	1,500.00
	ammonium molybdate, analytical reagent - 500 g/bot				
132	Calcium Carbide	kg	1	2,000.00	2,000.00
	Calcium carbide (pieces, thickness <10 mm , typically, technical grade, ~80%)				
133	Ethephon	bot	2	1,500.00	3,000.00
	Active Ingredient: ethephon 480 g/l				
	Form of Formulation: Water-soluble				
	Formulation Color: Clear brown				
	Procedure: Growth-controlling compounds for plants				
	Toxicity: Slightly hazardous				
	Packaging: 100 ml/bot				
134	Glass Burette	pc	4	2,500.00	10,000.00
	50 mL capacity, with glass stopcock				
135	Glass Jar 12oz	box	8	1,300.00	10,400.00
	☑Clear				
	☑12oz				
	☑M-7101				
	☑with cap				
	☑24pcs/box				
136	Glass Jar 8oz	box	8	1,200.00	9,600.00
	☑Clear				
	☑8oz				
	☑M-7177				
	☑with cap				
	☑24pcs/box				
137	Hygrometer Thermometer Indoor Humidity Monitor, Temperature Humidity Meter Room Thermometer Gauge In	unit	1	1,000.00	1,000.00
	* Power supply: Station:2 x AAA 1.5V batteries(not included); Sensor: 2 x AAA 1.5V batterie(Battery not included).				
	* Backlight LCD Display				
	* with Remote Sensor				
138	Laboratory Weighing Boats	pack	1	1,000.00	1,000.00
	☑Plastic, 100 mL				
	☑at least 500 pcs/pack				
139	Malachite green oxalate	bot	1	13,000.00	13,000.00
	☑reagent and microscopy grade				
	☑25 grams/bottle				
140	Malt Yeast Extract Agar	bot	1	5,500.00	5,500.00
	☑Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation				
	☑pH: 4.7±0.2 at 25°C				
	☑solubility: without rests				
	☑Appearance: fine powder				
	☑100 grams				
141	Mesh Filter Cloth	pc	23	300.00	6,900.00
	☑Color:White.				
	☑Material:Nylon				
	☑Mesh: 200 mesh				



	☑Size: 1m x 1m/39.4"m x 39.4"				
142	Picric acid	pack	1	15,000.00	15,000.00
	☑For HCN analysis of cassava tubers				
	◀Physical form: Crystal/powder				
	◀Color: Pale yellow/yellow				
	◀Molecular weight; 229.10				
	◀Moistened with water, >_98%				
	◀Pack size: 100g/pack				
	◀Analytical grade				
143	Plastic Square 100 Positions Laboratory 0.5ml/1.2ml/1.5ml/2ml Centrifuge Tube Case Box, Autoclaved	pc	2	500.00	1,000.00
	☑Material: Polypropylene, Autoclavable at 250 degrees F and 15psi for 20 minutes				
	☑Suitable for micro centrifuge tubes(0.5ml to 2ml)				
	☑Freezer safe. Transparent Cover for easy viewing				
	☑Alphanumeric and indexing are easy tracking the samples				
	☑Package: 1* 100 Positions Centrifuge Tube Case Box				
144	Potassium Acid Phthalate (KHP)	bot	2	500.00	1,000.00
	Primary standard acid, ACS Grade, CAS No. 877-24- 7 C8H5O4K, FW = 204.23 Assay = ≥99.95 but ≤100.05%. Volume- 500g				
145	Potassium dichromate, AR Grade	bot	8	1,550.00	12,400.00
	☑500 grams/poly bottle				
146	Potassium dihydrogen phosphate, AR (500g/bot)	bot	2	1,500.00	3,000.00
147	Sieve no.10 with cover and pan	set	2	10,000.00	20,000.00
	☑Sieve No. 10 (8" Sieve, All Brass, Full Height, No. 10 Mesh); Eye opening: 2000 μm (0.0787in)				
	☑Sieve Pan (8" Brass Sieve Pan, 2" Deep, Full Height)				
	☑Sieve Cover (8" Brass Sieve Cover Lid)				
148	Sieve no.50 with cover and pan	set	1	11,000.00	11,000.00
	☑Sieve No. 50 (8" Sieve, All Brass, Full Height, No. 50 Mesh); Eye opening: 300 μm (0.0118in)				
	☑Sieve Pan (8" Brass Sieve Pan, 2" Deep, Full Height)				
	☑Sieve Cover (8" Brass Sieve Cover Lid)				
149	Sodium Hexametaphosphate, 500g/bot	bot	5	800.00	4,000.00
150	Sodium Hydroxide	bot	4	500.00	2,000.00
	☑Technical grade, pellets, 1 kg/bot				
151	Soil Sample Rings (Core Sampler)	pc	50	140.00	7,000.00
	☑Dimension: 50-60mm diameter, 50-60 mm height, outer diameter appr. 53mm with cover or plastic end cups				
	☑Material: Aluminum				
152	soil temperature and humidity probe / waterproof I2C temperature and humidity sensor module te	set	5	2,100.00	10,500.00
	☑Power supply voltage: 2.4~5.5VDC				
	☑Measurement accuracy: temperature ±0.1 deg. Celcius, humidity plus or minus 1.5%RH				
	☑Working test range: -40 deg.celcius -125 deg.celcius, 0%RH-100%RH				
	☑Resolution: 0.1 deg.celcius, 0.1%RH				
	☑Communication protocol: standard I2C protocol				
	☑Line length: 1M				
	☑Wiring method: VCC-red, GND-black, SLC-yellow,				



	SDA-green				
153	Soil Test Kit	set	8	2,500.00	20,000.00
154	Sorbitol (AR) 500g/pack	pack	2	4,200.00	8,400.00
	☐Sorbitol (AR)				
	☐Chemical Formula: C6H14O				
	☐Molecular Wt. 182.172 g/mol.				
155	Steel Storage Cabinet for Glasswares	pc	1	15,000.00	15,000.00
	☐Steel Storage Cabinet for Laboratory Glasswares				
	☐Dimension: W- 90cm x D- 50 cm x H- 185 cm				
	☐Materials: Metal/Glass				
	☐Color: Beige/White				
	☐4 Adjustable Shelves				
	☐With Keylock				
156	Taq DNA Polymerase, 5000U	kit	1	13,500.00	13,500.00
	☐Certified molecular biology grade				
	☐For PCR analysis				
	☐Concentration: 5U/uL				
	☐Kit includes 25mL each of 10x PCR buffer and 50mM MgCl ₂				
	☐Size: 1mL				
157	Temperature-Humidity Data Logger	pc	5	5,000.00	25,000.00
	☐Portable and hand-held				
	☐16000 data recording capacity.				
	☐Adjustable record interval: 10s~24hour				
	☐Multi-function LCD				
	☐Internal NTC temperature thermal sensor with optional external sensor				
	☐Data export in PDF/EXCEL via data management software				
	☐Selectable °F/°C temperature unit				
	☐Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	☐Good quality				
	☐Durable				
158	Thermocouple 100mm Probe Stainless Steel High Temperature Sensor	set	1	260.00	260.00
	☐Operating Temperature:0 – 400deg.celcius				
	☐Probe Material: Stainless Steel				
	☐Probe Diameter:5mm /0.196inch				
	☐Threads size: approx. 8mm				
	☐Probe Length:100mm / 3.937inch				
	☐Cable Length:3m				
	☐Cable External Shielding: Steel Braiding				
	☐Cable Internal Insulation: Fiberglass				
	☐Connector: Spade Type				
158a	Triple Beam Balance	pc	2	10,000.00	20,000.00
	☐Capacity - 2610g				
	☐Readability - 0.1g				
	☐Repeatability - 0.2g				
	☐Pan size - 152mm ø				
159	Weighing Paper Sheet, Non-Absorbing	pack	1	500.00	500.00
	High-Gloss Pack of 500				
159a	2-thiouracil 500g/pack	pack	1	1,500.00	1,500.00
	biological source -synthetic				
	Quality Level-200				
	assay- ≥99%				
	form- powder				
	mp>300 °C (lit.)				



	solubility:1 M NaOH: 5 mg/mL, clear to very slightly hazy1 M NaOH: 50 mg/mL, colorless to faintly yellow				
	SMILES string: O=C1NC(=S)NC=C1				
	InChI :1S/C4H4N2OS/c7-3-1-2-5-4(8)6-3/h1-2H,(H2,5,6,7,8)				
	InChI key :ZEMGGZBWXYJHK-UHFFFAOYSA-N				
160	Agar for plant cell and tissue culture	pack	1	6,000.00	6,000.00
	500 grams/pack;				
161	Ammonium nitrate (NH4NO3) suitable for plant cell and tissue culture	kgs	1	5,000.00	5,000.00
162	Cylindrical Form Borosilicate Glass Flash with Aluminum Base 1900mL	pc	1	45,000.00	45,000.00
163	Digital Weighing Scale	pcs	2	3,500.00	7,000.00
	Digital scale is the best choice for an all-around scale for your business needs. Not only known for it's durability, power and user-friendly features but also not sacrificing quality for a cheaper price compared to the digital scale in the market. -A truly recommended and guaranteed by many satisfied customers!-Red LED display				
	-Water resistant				
	-FREE adaptor included! High precision strain gauge technology				
	Rapid price amount computing				
	Red LED display				
	Tare / Zero / Add-up / Total display / Clear total				
	Dual-display: weight, unit price, amount				
	Framework structure with pressure-limit protection				
	Overload and low voltage indication				
	AC/DC charging with built-in rechargeable battery				
	Automatic energy saving mode				
	Five different unit price memories				
	Automatic temperature compensation Available in 10, 15 and 30kgs				
	Digital scale is the best choice for an all-around scale for your business needs. Not only known for it's durability, power and user-friendly features but also not sacrificing quality for a cheaper price compared to the digital scale in the market. -A truly recommended and guaranteed by many satisfied customers!-Red LED display				
	-Water resistant				
	-FREE adaptor included!High precision strain gauge technology				
	Rapid price amount computing				
	Red LED display				
	Tare / Zero / Add-up / Total display / Clear total				
	Dual-display: weight, unit price, amount				
	Framework structure with pressure-limit protection				
	Overload and low voltage indication				
	AC/DC charging with built-in rechargeable battery				
	Automatic energy saving mode				
	Five different unit price memories				
	Automatic temperature compensation				
164	Eosin G Stain	btl	1	1,500.00	1,500.00
	Eosin G Stain, 2% solution for live/dead boar semen cells - 50 ml				
	Stain dead or damaged boar semen red				
	Minitub - Germany-delete				



165	Field Tape Measure 100m	pc	1	1,500.00	1,500.00
	<i>330 Feet (100 meters) Measuring Tape Heavy Duty Fiberglass Reel Standard and Metric units</i>				
166	Field Tape Measure 50m	pc	1	800.00	800.00
167	HD Digital Phase Contrast Microscope Package	set	1	445,000.00	445,000.00
	<i>This Trinocular HD Digital Microscope Package is the perfect digital microscope set-up for both laboratory or teaching applications. The multi-output HD camera allows for both USB output and HDMI output to a HD monitor with an 11.6" retina display screen which attaches to the camera for an all in one streamlined solution.</i>				
	<i>On board software allows for great control of the camera without the use of a computer via HDMI output. The microscope includes a mouse which allows you to capture images/videos to a removable SD card as well as recall and play these image/videos back. Additionally, this microscope also allows side-by-side image comparison of a capture vs live image, on screen cross hair, and more.</i>				
	<i>Using USB output the camera will connect to a PC where you can take advantage of the free software which allows for image/video capture, image/video playback, annotation, measurement, stacking, stitching, and more.</i>				
	<i>Note: Source and preferred brand: Nikon E200 HD Digital Microscope (https://microscopecentral.com/products/nikon-e200-hd-digital-microscope-package?variant=21386289793)</i>				
	DIGITAL MICROSCOPE SPECIFICATIONS:				
	<i>Head: Trinocular 30 degree inclined w/ photo tube & c-mount</i>				
	<i>Eyepieces: CFI E 10x (20mm)</i>				
	<i>Objectives: CFI E Plan Achromat 20x, 40x, 100x Oil, and 60x Positive Phase Contrast</i>				
	<i>Stage: Mechanical stage with slide holder</i>				
	<i>Condenser: E2 Abbe Condenser N.A. 1.25, Aperture diaphragm with position guide markings for respective objectives</i>				
	<i>Focus: Coaxial coarse/fine focus controls</i>				
	<i>Illumination: LED illumination</i>				
	<i>Misc: Dust Cover, Power Cord, Manual</i>				
	<i>Warranty: 5 Year Mechanical 1 Year Electrical</i>				
168	Heating Mantle	pcs	1	12,000.00	12,000.00
	<i>■220V 500mL/1L/2L Heating Mantle & Magnetic Stirrer Stirring Temperature Regulation Digital Display Lab Electric Sleeve - 2L</i>				
169	herbarium sheet 42 x 29cm	pack	1	2,000.00	2,000.00
	<i>Color: white</i>				
	<i>Size: 42 x 29cm, 100pc/pack</i>				
170	Iodine crystals	bot	1	8,900.00	8,900.00
	<i>Analytical Grade resublimed, 500g per bottle;</i>				
171	Lab Gown Long Sleeves L	pcs	4	500.00	2,000.00
	<i>■Lab Coat High-quality White</i>				
	<i>■Size- Large; long sleeves</i>				
172	Lab Gown Long Sleeves M	pcs	4	500.00	2,000.00
	<i>■Lab Coat High-quality White</i>				
	<i>■Long Sleeves</i>				
	<i>■Medium size</i>				



173	Lugol's Solution <i>Lugol's Solution 1 li/bottle;</i>	bot	2	1,500.00	3,000.00
174	Magnetic Bar Set <i>7pcs of Mixed size PTFE Magnetic Stirrer Mixer Stir Bars White Color Without Pivot Ring Shape: Cylinder without Pivot Ring Feature: corrosion resistance Quantity: 7 pcs Size: 7pcs of Mixed size :C5*15mm C6*20mm C6*25mm C7*25mm C9*30mm C8*35mm C7*40mm</i>	set	1	10,500.00	10,500.00
175	Mannitol (AR) 500g ■Mannitol (AR) ■Formula: C6H14O6 ■Molecular Wt. 182.172g/mol.	pack	1	5,700.00	5,700.00
176	Microtome Blade, Stainless Steel Disposable <i>50pcs/box Disposable microtome blade is extra suitable for routine ribbon sectioning and for hard tissues, specially hardened cutting edge, Short trimming time. Technical Data Material: stainless steel Length: 80 mm Height: 8 mm Blade angle: 35° Material: stainless steel Length: 80 mm Height: 8 mm Blade angle: 35° Dispenser:50 pcs.</i>	box	1	4,500.00	4,500.00
177	Portable Computer-Aided Sperm Analysis (CASA) System <i>Portable Computer-Aided Semen Evaluation (CASA) System- Complete Set Description: Performs fast and accurate pen-side semen analysis. Fast calculation of concentration, motility and total doses (<1 min per sample). Cloud service to access data remotely, export records and backup data. Ability to capture and store video image of samples. Easy to use software allows for fast and efficient analysis. Portable, compact design allows for easy integration into any system. Specifications and Inclusions: 1 unit Portable CASA system (includes softwares for swine and bovine semen) 1 unit iPad Mini (230V) measuring/sampling chips (100 tests - 2 packs of 50 chips/pack) heater block light source 2 charger cords (for heater block and iPad Mini) foldable stand hard carrying case with strap sample cups Note to the TWG: No power requirement needed as this is only installed on the iPad Mini (230V) as a software system.</i>	set	1	280,000.00	280,000.00
178	Portable Freezing Unit for 90 Straws- Complete Set <i>Freezing unit for 90 straws 0.5 ml and 0.25 ml - Complete Set Description:</i>	set	1	72,000.00	72,000.00



	<i>The freezing units are compact and easy to handle. They are made of a styrofoam box of high quality, an inner container of stainless steel and a floating rack. The stainless steel container is filled with liquid nitrogen. The rack keeps the needed distance between 0.5 ml or 0.25 ml straws during the first down phase, while it floats on liquid nitrogen. After that, the straws get manually immersed into the nitrogen.</i>				
	PRODUCT FEATURES				
	<i>Distance between straws and liquid nitrogen level can be adjusted</i>				
	<i>Fits 0.5 ml and 0.25 ml straws</i>				
	<i>Low nitrogen consumption</i>				
	<i>High quality styrofoam chest and stainless steel inner box</i>				
	<i>Easy transport</i>				
	<i>Specifications (no electricity power required):</i>				
	<i>isolating styrofoam box</i>				
	<i>floating rack for 90 straws</i>				
	<i>stainless steel container with lid: 28 l</i>				
	<i>Dimension: (L 530 x W 325 x H 200 mm)</i>				
	<i>Recommended reference for specifications:</i>				
	<i>REF.: 15043/0736 (https://www.minitube.com/catalog/en/freezing-unit-for-90-straws-p1735)</i>				
	<i>REF.: 15043/0736 (https://www.minitube.com/catalog/en/freezing-unit-for-90-straws-p1735/)</i>				
179	Portable ultrasound scanner for transabdominal pregnancy detection in sows and small ruminants.	set	1	300,000.00	300,000.00
	<i>Portable ultrasound scanner for transabdominal pregnancy detection in sows and small ruminants</i>				
	<i>Integrated auto-measure function to easily measure back fat thickness. Complete with probe. Compact and light weight.</i>				
	<i>Portable, battery operated</i>				
	<i>Robust, electric probe</i>				
	<i>Very easy to clean</i>				
	<i>Integrated auto-measure function to easily measure back fat thickness</i>				
	PRODUCT FEATURES				
	<i>Monitor size: 5.0" TFT-LCD</i>				
	<i>Display modes: B, B+B</i>				
	<i>Image gray scale: 256 levels</i>				
	<i>Measure functions: Distance, circumference, area, volume</i>				
	<i>Detection depth: up to 240mm</i>				
	<i>Battery capacity: 3000mAH, 7.4V</i>				
	<i>Power consumption: 8W</i>				
	<i>Weight (incl. probe): 854 g</i>				
	<i>Overall size: 240 x 117 x 40 mm (L x W x H)</i>				
	<i>Electrical connection: 100-240 V</i>				
	SCOPE OF DELIVERY				
	<i>1 Main device with 3.5 MHz electronic sector convex probe (70° forward) and 5 TFT monitor</i>				
	<i>1 Transport case</i>				
	<i>2 Carrying strap</i>				



	5 Knurled screws for fixing the carrying strap to the main unit				
	4 Li-ion rechargeable Battery 3.7 V/3000 mAh with protective circuit (2 x 2 Pcs.)				
	1 Battery charger				
	1 Mini 4pin USB cable to transmit pictures				
	2 Rebro Jelly, bottle 100 ml				
	1 Manual				
	Recommended reference for specifications:				
180	Positive Phase Contrast Objective (60x)	unit	1	77,000.00	77,000.00
	Positive Phase Contrast Objective (60x)				
	Please note: The objective should be compatible with our our existing microscope (Nikon Eclipse E200) used for our Computer Aided Sperm Analyzer (CASA) machine.				
	Specifications:				
	CFI Achro DL 40x				
	Material number: MRP20402				
	Type: Achromat				
	Primary Technique: Phase Contrast (Positive)				
	Immersion: Air				
	Magnification: 60X				
	Numerical Aperture: 0.65				
	Working Distance: 0.65				
	Cover Glass Thickness: 0.17				
	Brightfield: suitable				
	Darkfield: universal condenser (dry) and darkfield ring, darkfield condenser (dry/oil)				
	Phase Contrast: Phase contrast ring: PH2, Phase contrast type: DL				
	Fluorescence (visible): possible but not recommended;				
	Polarizing: possible but not recommended; Polarizing type: simple POL				
181	Potassium permanganate, ACS reagent, ≥99.0% Crystals	bot	1	8,500.00	8,500.00
	100 grams				
182	Semiautomatic Filling and Sealing (SFS) Machine for 0.5 mL Straws- Complete Set	set	1	800,000.00	800,000.00
	SFS, semiautomatic filling and sealing machine, 0.5 ml straws				
	Safe and hygienic filling and sealing system for semen straws, using metal or glass sealing balls.				
	Description:				
	Straws are filled and sealed 6 by 6				
	Straw filling is done by vacuum and sealing by pressing a metal or glass sealing ball into the straw end				
	The glass sealing balls are available in different colors				
	An air bubble of 1 cm is automatically produced in each straw				
	Capacity: 2000 straws/hour				
	Specifications:				
	filling and suction heads for 6 straws				
	straw magazine				
	vacuum bottle				
	SFS Cartridge loading device with loading block and				



	10 cartridges for 36 straws each (0.5 mL straws)				
	Low density vacuum pump, 30-60 Hg, with manometer and adjustable valve 230 V/50 Hz				
	Support for semen cone				
	Silicone tubing for SFS- transparent, 3 x 1 mm, length 10 m				
	Filling head with 6 nozzles for 0.5				
	Suction head with 6 nozzles for 0.5				
	Washer for all filling and suction nozzles - 5000/bag				
	AVR included				
	Recommended source/specifications:				
	https://www.minitube.com/catalog/en/sfs-semiautomatic-filling-and-p1204/				
	Note to the TWG:				
	Power requirement is already indicated (230V)				
183	Sodium Cobaltrinitrite ACS Reagent	bot	1	6,000.00	6,000.00
	100grms/bottle;				
184	Mechanical Pipettor, Adjustable Volume, 2-10ul	pc	2	5,000.00	10,000.00
	Mechanical Pipettor				
	2-10ul				
	Adjustable Volume				
	Single-channel				
	Non-autoclavable				
	Rebidding (from VSU-GOODS-23-04)				
185	Canada Balsam, for microscopy, 100ml	btl	1	1,800.00	1,800.00
186	Coplin Jar with cover	pcs	12	750.00	9,000.00
	☑Specification				
	◀Internal Width (in)1 11/64				
	◀Internal Height (in)2 61/64				
	◀Internal Depth (in)1 11/64				
	◀Internal Width (cm)3				
	◀Internal Height (cm)7.5				
	◀Internal Depth (cm)3				
	◀Description Glass Coplin Staining Jar with glass cover				
187	Disposable Hair Cap	packs	2	220.00	440.00
	Material: non-woven fabric				
	Color: Blue				
	Strong quality elastic band to ensure a good and comfortable fit				
	100 pcs per pack				
188	Glycerine	liter	6	300.00	1,800.00
	Glycerine Technical Grade				
	1L/bot.				
189	Hydroponic Waterproof pH/EC/TDS/Temperature Portable Meter	pc	1	18,000.00	18,000.00
	☑pH Range: 0.00 to 14.00 pH				
	☑pH Resolution: 0.01 pH				
	☑pH Accuracy: ±0.1 pH				
	☑pH Calibration: automatic, at one or two points using standard buffers (pH 4.01, 7.01,10.01); one point calibration using quick calibration solution				
	☑pH Temperature Compensation: automatic				
	☑EC Range: 0.00 to 6.00 mS/cm				
	☑EC Resolution: 0.01 mS/cm				
	☑EC Accuracy: ±2% F.S.				
	☑EC Calibration: automatic, one-point at 1.41 mS/cm or 5.00 mS/cm; one point calibration using quick				



	calibration solution				
	☑TDS Range: 0 to 3000 ppm (500 CF); 0 to 3999 ppm (700 CF)				
	☑TDS Resolution: 10 ppm (mg/L)				
	☑TDS Accuracy: ±2% F.S.				
	☑TDS Calibration: done through conductivity				
	☑EC/TDS Temperature Compensation: EC/TDS				
	☑EC to TDS Conversion Factor: 0.5 (500 ppm) or 0.7 (700 ppm)				
	☑Cell Type: amperometric two pole				
	☑Temperature Range: 0.0 to 60.0°C / 32.0 to 140.0°F				
	☑Temperature Resolution: 0.1°C / 0.1°F				
	☑Temperature Accuracy: ±0.5°C / ±1°F				
	☑Automatic Shut-Off: auto-off after 8 minutes of non-use				
	☑Battery Type/Life: 1.5V (4) / approx. 100 hours of continuous use				
	☑Environment: 0 to 50°C (32 to 122°F); RH max 100%				
	☑Dimensions: 163 x 40 x 26 mm (6.4 x 1.6 x 1.0")				
	☑Weight: 100 g (3.5 oz.)				
190	Laboratory Weighing Boats	pack	1	1,000.00	1,000.00
	Plastic, 100 mL				
	at least 100 pcs. pack				
191	Methanol or Methyl alcohol	btl	10	1,950.00	19,500.00
	HPLC Grade 2.5L per bottle				
192	NCM ELISA Kit for Sweetpotato virus indexing	kit	1	25,000.00	25,000.00
	☑Included kit components				
	◀Precoated 96-well plate				
	◀Pretitrated capture antibody				
	◀Pretitrated detection antibody				
	◀Recombinant protein standard (in additional well strips)				
	◀Stop solution				
	◀Substrate solution				
	◀Assay buffer (sample diluent)				
	◀Wash buffer				
	◀Lysis buffer				
193	Nitric acid, HNO3	btls	1	3,600.00	3,600.00
	Concentrated, Analytical reagent grade, 2.5L/bottle				
194	Reagent Bottle 500mL	pcs	3	500.00	1,500.00
	☑Amber colored bottle with HDPE orange screw cap, 500mL				
195	Laboratory Refrigerator 4 degrees-double door	unit	1	500,000.00	500,000.00
	☑Temperature Range: 2°C to 10°C				
	☑Capacity (English): at least 45 cu. ft.				
	☑Electrical Requirements: at least 115 V 60 Hz				
	☑Plug Type: NEMA 5-15 P				
	☑Dimensions (D x W x H) Interior: 27 x 49 x 61.75 in. (686 x 1245 x 1569 mm)				
	☑Shipping Weight (Metric):at least 255 kg				
	☑Interior: Painted White Steel				
	☑Capacity (Metric) Shelf: at least 45 kg/full shelf, 22.5 kg/half shelf				
	☑Warranty: 2 years parts and labor, plus 3 year compressor warranty				
	☑Temperature (Setpoint): 5°C				
	☑Ports: 1 Rear access port and 2 side access ports				
	☑Door Style: Glass				



	☑Shelves: 8 Full, 2 Half				
	☑Certifications/Compliance: cULus, ENERGYSTAR				
	☑Capacity (Metric): at least 1274 L				
	☑Amperage: at least 5 A				
	☑Dimensions (L x W x H) Exterior: at least 32 x 52.7 x 81 in.(813 x 1339 x 813 mm)				
	☑Shipping Weight (English): at least 561 lb.				
	☑Refrigerant: R290				
	☑Capacity (English) Shelf: at least 100 lb./full shelf; 50 lb./half shelf				
	☑Access Security: Key Lock				
	☑Color: White				
	☑Control Type: Microprocessor				
	☑No. of Doors: 2				
	☑Compatible UPS at least 3kva				
	☑Compatible AVR at least 3kva				
	☑Onsite installation				
	☑Atleast 1 year warranty				
	☑2 cycle of preventive maintenance				
196	Safranin O Solution	btl	1	1,800.00	1,800.00
	☑250ml;				
197	Temperature-Humidity Data Logger	piece	4	2,000.00	8,000.00
	☑Portable and hand-held				
	☑16000 data recording capacity.				
	☑Adjustable record interval: 10s~24hour				
	☑Multi-function LCD				
	☑Internal NTC temperature thermal sensor with optional external sensor				
	☑Data export in PDF/EXCEL via data management software				
	☑Selectable °F/°C temperature unit				
	☑Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	☑Good quality				
	☑Durable				
198	60X Plan Fluorite Oil Immersion Objective with Iris, 1.25-0.65 NA, 0.12 mm WD, Michelson Interferome	lot	1	725,000.00	725,000.00
	1. 60x Oil Immersion Objective Lens -				
	☑Description:				
	- 60X Plan Fluorite				
	- Oil Immersion Objective with Iris,				
	- 1.25-0.65 NA				
	- 0.12 mm WD				
	2.Michelson Interferometry				
	-Designed for Educational, Demonstration, and Classroom Use				
	-Complete Photonics Kit Includes All Hardware Except Variable Power Supply for the Thermal Expansion Experiment (12 VDC, 2 A)				
	-Extensive Manual and Teaching Materials Provided				
	-Easy to Assemble and Use				
	-Choose from Educational Kits Containing Imperial or Metric Components				
	3. Optical Tables- 1 pc				
	Specifications:				
	-Matte Black Anodized Finish Reduces Unwanted Reflections				
	-Grid of Through-Tapped 1/4"-20 (M6) Mounting Holes				



	-Metric Aluminum Breadboard				
	-Dimensions: 750 mm x 750 mm x 12.7 mm				
	4. LG4- Laser Safety Glasses- 1 pc.				
	Specifications:				
	-Dark blue lenses				
	-12% Visible Light Transmission				
	-Universal Style				
	-Optical Density (190- 400 nm= 5+, 625-850 nm= 4+, 662-835 nm=5+, 633= 5+)				
	-LB Rating (625- 670 nm= I LB4, 625- 830 nm= DR LB4, >670- 800 nm= I LB5				
	5. LG6 Laser Safety Glasses- 1 pc				
	Specifications:				
	-Clear lenses				
	-93% Visible Light Transmission				
	-Universal Style				
	-Optical Density (190- 398 nm= 7+, 9000-11000 nm= 7+)				
	-LB Rating (190- 315 nm= DLB7, 9000-11000 nm=DILB3)				
	6. LG1 Laser Safety Glasses- 2 pcs. each				
	Specifications:				
	-Light green lenses				
	-59% Visible Light Transmission				
	-Universal Style				
	7. LG10 Laser Safety Glasses- 1 pc				
	Specifications:				
	-Amber lenses				
	-35% Visible Light Transmission				
	-Universal Style				
200	Temperature Controller	set	1	320,000.00	320,000.00
	Specifications				
	Temperature Control System for Recording Chamber (heat only); one channel DC 12V /2.5 A, two thermometers.				
	Including:				
	One H-OBJ Microscope Object Mantle Heater. Connects directly to HOT-1. For connection to npi temperature controllers the adapter cable OBJ-DIN is required				
	One H-OBJ-DIN DIN cable for H-OBJ, HCS or HEATINGPAD for connecting to npi controller (TC4-CABLE)				
201	Two channel programmable syringe pump + High vacuum pump, bell jar, and vacuum pump kit accessories	lot	1	250,000.00	250,000.00
	Two channel programmable syringe pump				
	Descriptions:				
	Holds 2 Syringes up to 60 mL each, can be different sizes				
	Both syringes operate in sync. Independent syringe operation, including "Push-Pull", available with the Dual Pump System.				
	Infusion rates from 1.436 µL/hr (1 mL syringe) to 7515 mL/hr (60 mL syringe)				
	Easy-to-use keypad interface				
	One-click program upload from "Pumping Program Generator" spreadsheet				
	Space Saving Chassis: Foot print size of only 5 3/4" x				



	8 3/4"				
	Won't take up unnecessary space on your laboratory or production bench				
	High vacuum pump, bell jar, and vacuum pump kit accessories				
	Description:				
	LAV-3/G 3cfm vacuum pump				
	1 EA Acrylic Pump Plate				
	1 EA 6"x11" Glass BellJar				
	5' High Vacuum Tubing				
	2 Hose Clamps				
	1 Quart High Vacuum Pump Oil				
	3 EA Balloons				
	1 EA Petri Dish				
				TOTAL:	7,813,980.16

DILBERTO O. FERRAREN
BAC Chairman