



BID BULLETIN 01

Date: 24 April 2023

Project Title: *Supply and Delivery of Laboratory Equipment, Supplies and Chemicals (VSU-GOODS-23-17)*

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 2,709,096.64)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 2,709,096.64 and the largest of which should be at least PhP 1,354,548.32 .
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 5,418,193.28)
	Or
	Committed Line of Credit (at least Php 541,819.33)
(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>11 April – 02 May 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>A complete set of Bidding Documents may be acquired by interested Bidders on <i>11 April – 02 May 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>The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p>The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:</p> <p>Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u></p> <p>Then send the deposit slip to jessamine.ecleo@vsu.edu.ph</p>



<p>Section II. Instructions to Bidders</p> <p>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	0.5-10 µL pipette tips (white)	packs	2	1,000.00	2,000.00
	<i>0.5-10 µL pipette tips (white) at least 1000 pcs. per pack</i>				
2	10 ml Type 1, class A borosilicate glass Graduated Cylinder	pcs	2	680.00	1,360.00
3	100 ml Type 1, class A borosilicate glass Beaker	pcs	10	500.00	5,000.00
4	1000 µL pipette tips (Blue)	packs	2	1,300.00	2,600.00
	<i>1000 µL pipette tips (Blue) at least 1000 pcs. per pack</i>				
5	125 ml Erlenmeyer flask	pcs	6	500.00	3,000.00
	<i>70980-125- 125 ml Erlenmeyer flask</i>				
6	200 µL pipette tips (Yellow)	packs	2	500.00	1,000.00
	<i>200 µL pipette tips (Yellow) at least 1000 pcs. per pack</i>				
7	3 layer Non-woven surgical face mask, at least 50 pcs. per box	box	2	200.00	400.00
8	500 ml Type 1, class A borosilicate glass Beaker	pcs	10	700.00	7,000.00
9	95% Ethyl Alcohol, Technical Grade (Gallon)	gallon	10	1,500.00	15,000.00
10	Acetone	gal	4	1,600.00	6,400.00
	<i>Acetone, Technical Grade</i>				
	<i>1gal</i>				
11	Agar (E-406)	bot	4	2,400.00	9,600.00
	<i>Pronadisa</i>				
	<i>500g/bot</i>				
	<i>For plant tissue culture</i>				
12	Agar Agar	kg	1	6,000.00	6,000.00
13	Agar for plant cell and tissue culture	bot	1	7,300.00	7,300.00
	<i>500 grams/bot</i>				
14	Alcohol, Denatured	gal	11	600.00	6,600.00
15	Alcohol, Ethyl, 70%	liter	5	260.00	1,300.00
16	Ammonium Acetate, AR, 500g/pack	pack	2	12,500.00	25,000.00



17	ammonium molybdate <i>ammonium molybdate, analytical reagent - 500 g/bot</i>	bot	1	1,500.00	1,500.00
18	Ammonium Nitrate ☐AR grade; at least 98% purity ☐Molecular Wt. 80.043 grams per mol. ☐1kg/pack	pack	2	8,000.00	16,000.00
19	a-Naphthalene Acetic Acid (NAA), extra pure, 100g ☐>100 g in poly bottle ☐>suitable for plant cell culture ☐>BioReagent, ≥95%, crystalline	bot	1	3,800.00	3,800.00
20	Autoclavable plastic bag, 100pcs/pack ☐Color: Transparent ☐Size: 12" x 12"	pack	1	8,000.00	8,000.00
21	Autoclave Tape ☐turns black at 250°F, ☐width - ¾ inch ☐length- minimum of 60 yards	pcs	9	500.00	4,500.00
22	Beaker, Glass, 150 mL ☐Low Form Beaker ☐Borosilicate Glass ☐Transparent Beaker ☐Thickened With Spout	pc	10	380.00	3,800.00
23	Beaker, Glass, 250mL ☐Low Form Beaker ☐Borosilicate Glass ☐Transparent Beaker ☐Thickened With Spout	pc	7	400.00	2,800.00
24	Beef Extract 500 g/bot for microbiological work;	bot	1	3,500.00	3,500.00
25	Benzylaminopurine (BAP) suitable for plant cell and tissue culture (5g/bot)	bot	1	24,000.00	24,000.00
26	Biohazard Autoclave Gloves, 18-1/2 inches ☐18-1/2 inches ☐Color: Orange ☐Soft, pliant, cotton terrycloth gloves ☐Ideal for handling hot objects out of the autoclave or oven and protect from temperatures up to 450°F (232°C)	pair	1	2,500.00	2,500.00
27	Bromocresol purple suitable for plant cell and tissue culture (5g/bot)	bot	1	3,000.00	3,000.00
28	Buffer Solution pH 4, 500 mL	bot	1	2,500.00	2,500.00
29	Buffer solution, pH 7, 1000 ml.	bot	1	2,090.00	2,090.00
30	Buffered Peptone Water ☐Pre-enrichment broth ☐used for isolation and culturing of bacteria. ☐supplied in 500g/bottle	bot	1	4,000.00	4,000.00
31	Calcium Carbide Calcium carbide (pieces, thickness <10 mm , typically, technical grade, ~80%)	kg	1	2,000.00	2,000.00
32	Calcium Chloride Dihydrate ☐Branding the chemical to be purchase is	bot	2	3,000.00	6,000.00



	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/bot				
33	Calcium hydroxide (ACS reagent, ≥95.0%) or lime powder	kg	1	6,000.00	6,000.00
34	Centrifuge tube case box 1.5 mL	box	2	350.00	700.00
	☑Product Name : Centrifuge Tube Box				
	☑Fit for : 1.5ml Centrifuge Tube				
	☑Material : Plastic				
	☑Each Socket Diameter : 12mm/0.47"				
	☑Size(Approx) : 150 x150 x 55mm/5.9" x 5.9" x 2.2" (L*W*H)				
	☑Weight : 123g				
35	Compound Binocular Microscope	pc	1	32,000.00	32,000.00
	Head: 45° Inclined Binocular, 360° rotation				
	Eyepiece: 10x Wide Field Eyepiece				
	Nosepiece: 4 Position				
	Optical Magnification Range: 40 to 1000x				
	Objectives: 4x, 10x, 40x, 100x				
	- Achromatic Optics				
	Mechanical Stage/ Slide Holder: 5.5 x 5.5 inches				
	Focusing: Coarse and Fine				
	Illumination: Halogen Illumination				
	Dimmer: Yes				
	Body Frame: Metal frame with Gray Finish				
	Weight: Approximately 12.3 lb / 5.5 kg				
36	Crucible with cover	pc	100	150.00	15,000.00
	☑porcelain container				
	☑Porcelain Crucible with Lid (High Form), 30ml				
	☑Height: 43mm				
	☑Base: 24mm Diam.				
	☑Top: 33mm Diam.				
37	Delicate Lens Tissues Wipes	pack	18	300.00	5,400.00
	☑111.76mm x 213.36mm wipes, 280 wipes per box				
	☑Suitable for delicate laboratory and electronics applications, can be used as lint-free wipes for camera lenses				
38	Digital Precision Industrial Weighing Scale Balance	pc	1	6,000.00	6,000.00
	Specification				
	Metage Range (g)= up to 8 kg				
	Reading Precision (g)= 0.1g				
	Scale Pan size (mm): 180 x 180mm				
	Shape size (l x w x h): 260 x 180 x 64mm				



	Features				
	LCD with green backlight				
	Tare/ Zero function				
	Auto-off function				
	Stainless steel pan				
	Battery: 4 x AA batteries (not included)				
	Power: AC Adapter (7.5V 200 mA) (included)				
	Package Contents				
	Digital scale x 1				
	User Manual x 1				
	Stainless steel pan x 1				
	Power adapter x 1				
	Manual (English)				
39	Digital Refractometer	pc	1	32,000.00	32,000.00
	Ean: 0667282003015-delete				
	Inside Depth: 19.2 inches				
	Item Weight: 14.8 ounces				
	Measurement Type: Brix Temperature				
	Model Number: HI-96801-delete				
	Number of Items: 1				
	Part Number: HI 96801				
40	Digital Weighing scale , at least 5kg, range=0.1	pc	1	50,000.00	50,000.00
	Display: LCD				
	Platform Material: ABS Plastic				
	Power Supply: Battery/AC				
	Operating Temperature: 18° - 25° C / 64° - 77° F				
	Material: Plastic				
	Manufacturers Part Number: 30428206- delete				
	Type: Compact Portable Balance				
41	dNTP Solution Mix	kit	1	12,500.00	12,500.00
	☐Molecular biology grade				
	☐Premixed dNTP solution				
	☐10 mM each dATP, dCTP, dGTP, and dTTP				
	☐Size: 100uL				
42	Eosin Methylene Blue Agar	bot	1	8,250.00	8,250.00
	☐Agar powder				
	☐Culture media				
	☐500 g per bottle				
43	Erlenmeyer Flask, Glass, 250mL	pc	10	400.00	4,000.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
44	Ethepon	bot	2	1,500.00	3,000.00
	Active Ingredient: ethephon 480 g/l				
	Registration number: RI. 010401197493- delete				
	Form of Formulation: Water-soluble				
	Formulation Color: Clear brown				
	Procedure: Growth-controlling compounds for plants				



	<i>Toxicity: Slightly hazardous</i>				
	<i>Packaging: 100 ml/bot</i>				
45	Ethyl Alcohol (95%)	canister	5	3,700.00	18,500.00
	☐95%				
	☐Container size: Plastic waterjug (20L)				
46	Ferrous sulfate (FeSO₄. 7H₂O) suitable for plant cell and tissue culture	bot	1	2,000.00	2,000.00
	<i>500 grams/bot</i>				
47	Ferrous Sulphate	bot	2	6,000.00	12,000.00
	☐Analytical Grade				
	☐500 G/bot				
48	Filter Paper, 12.5 cm. Ashless #42 or equivalent	box	7	4,400.00	30,800.00
	☐Pore size:2.5um				
	☐at least 100 pcs. per box				
49	Formaldehyde	bot	1	3,000.00	3,000.00
	<i>Analytical Reagent Grade 2.5L per bottle</i>				
50	Glass Buret	pc	4	2,500.00	10,000.00
	<i>50 mL capacity, with glass stopcock</i>				
51	Glass Jar 12oz	box	8	500.00	4,000.00
	☐Clear				
	☐12oz				
	☐M-7101				
	☐with cap				
	☐24pcs/box				
52	Glass Jar 8oz	box	8	500.00	4,000.00
	☐Clear				
	☐8oz				
	☐M-7177				
	☐with cap				
	☐24pcs/box				
53	Graduated Cylinder, Glass, 100mL	pc	2	850.00	1,700.00
	☐100mL capacity				
	☐borosilicate glass				
54	Graduated Cylinder, Glass, 100mL	pc	1	850.00	850.00
	☐Type 1, Class A Borosilicate Glass				
55	Graduated Cylinder, Glass, 250mL	pc	2	1,300.00	2,600.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
56	Herbarium Straps	pair	3	1,000.00	3,000.00
	<i>Cam-buckle straps. Cast cam-buckle has spring tensioned jaw to grip strap. Simply pull strap to tighten. Press buckle to release. 1 inch x 8 feet. One pair.</i>				
57	Hydrochloric acid, HCl	bot	4	1,900.00	7,600.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>				
58	Hygrometer Thermometer Indoor Humidity Monitor, Temperature Humidity Meter Room Thermometer Gauge In	unit	1	1,000.00	1,000.00
	<i>* Power supply: Station:2 x AAA 1.5V batteries(not included); Sensor: 2 x AAA 1.5V batterie(Battery not included).</i>				



	* Backlight LCD Display				
	* with Remote Sensor				
59	Inoculating Loop Stainless Steel	pack	1	1,200.00	1,200.00
	☐10PCS/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology				
60	Kooler Pre- Filter for Water Purifier	set	1	4,000.00	4,000.00
	☐Maintenance Kit for kooler (pre-filter)				
	☐Quick fittings female elbow 1/4x1/2				
	☐*quick fittings femelae 1/4x1/2				
	☐*HDPE-RESIN Elbow conn. 1x4x5/16 set 1 2,500.00 2,500.00				
	☐HDPE-Resin Straight connector 1/2x3/8				
	☐*LLDPE TUBE 1/4				
	☐*LLDPE TUBE 3/8				
61	Laboratory Weighing Boats	pack	1	1,000.00	1,000.00
	☐Plastic, 100 mL				
	☐at least 100 pcs/pack				
62	Lactophenol Cotton Blue Solution	bot	2	10,350.00	20,700.00
	☐250ml/bot				
63	Latex Disposable Gloves Powder Free (Medium), 100 pcs. or 50 pairs per box	box	4	600.00	2,400.00
64	Liquid Nitrogen Self- Pressurized Tank (60L)	lot	1	542,700.00	542,700.00
	☐Self-pressurizing tank				
	☐60L capacity				
	☐double wall, stainless steel tank used				
	☐suitable for the programmable freezer (IMV MicroDigit Cool)				
	☐includes hose and pressure system for manual loading of liquid nitrogen from larger storage tanks				
65	Liquid Nitrogen Tanks and Peripherals	lot	1	280,000.00	280,000.00
	☐Set of Liquid Nitrogen Tanks:				
	◀1 - Spectrum 35				
	◀2 - Spectrum 20				
	◀1 - Spectrum 3				
	◀1 - ET-3				
	☐Peripherals				
	◀Two-shelf canisters				
	◀Daisy goblets various colors (65mm)				
	◀Visotubes various colors				
	◀Flag for canister lifter				
	◀Identifier without flag				
	◀Liquid nitrogen measuring stick (1000mm)				
	◀Protective glasses				
66	Liquid Nitrogen Stainless Steel Bucket	unit	1	2,000.00	2,000.00
	☐capacity: 3L double tank				
	☐Portable double-layer bucket				
67	Liquid nitrogen storage container, 5L	pc	1	15,000.00	15,000.00
	☐5 liters capacity				
	☐Mouth Diameter: 50 mm				
	☐Outer Diameter (mm): 304				
	☐Height (mm): 550				



	☑Material: Aluminum Alloy				
68	Malachite green oxalate	bot	1	2,500.00	2,500.00
	☑reagent and microscopy grade				
	☑25 grams/bottle				
69	Malt Yeast Extract Agar	bot	1	1,578.00	1,578.00
	☑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				
70	Manganese sulfate (MnSO4. H2O) suitable for plant cell and tissue culture	bot	2	2,750.00	5,500.00
	500 grams/bot				
71	Mannitol (AR) 500g/pack	pack	2	2,000.00	4,000.00
	☑Mannitol (AR)				
	☑Formula: C6H14O6				
	☑Molecular Wt. 182.172g/mol.				
72	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"				
73	Microcentrifuge Rack with Cover, Reversible (2 mL/ 1.5 mL)	unit	3	850.00	2,550.00
	☑Polypropylene (PP)				
	☑Autoclavable				
	☑Excellent rack for benchtop use or freezer storage.				
	☑Excellent chemical & temperature resistance				
	☑80/60 well rack capacities:				
	☑80-Place for 1.5 & 2.0mL tubes				
	☑60-Place for 0.5 & 0.2mL tubes				
	☑With lid or cover				
74	Microcentrifuge Tube, 0.5mL, Attached Snap Cap, Clear/ Natural	unit	1	1,700.00	1,700.00
75	Microcentrifuge Tube, 1.5mL, Attached Snap Cap, Clear/ Natural	unit	1	1,600.00	1,600.00
76	Microscope Slides and cover slips	box	3	370.00	1,110.00
	☑Pre-Cleaned Blank slides with 50pcs./box 22 x 22 mm square Cover Slip				
77	Mortar and Pestle, Heavy Duty	unit	5	850.00	4,250.00
	☑Mortars with spout				
	☑Material: Porcelain for both mortar and pestle				
	☑Inside grinding surface unglazed				
	☑Capacity: 145 mL, 90 x 70 mm				
	☑Heat and cold resistant				
78	Myo-inositol	bot	2	5,900.00	11,800.00
	☑AR, 100g/bot				
79	Myo-inositol suitable for plant cell and tissue culture (100gms/bot)	bot	1	5,900.00	5,900.00



80	Nutrient Agar, 500g/bot	bot	1	7,300.00	7,300.00
81	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft	roll	7	2,800.00	19,600.00
82	Pasture Pipette	pc	20	5.00	100.00
	☐Pasture pipette, durable glass, 2 ml capacity, straight tip				
83	PET Seal Bottles/Reagent Vials	pack	6	230.00	1,380.00
	☐EREMY1 Portable Bottle Container PET Seal Bottles Spray Bottle Pill Container Powder Container Reagent Vials Plastic Chemical Container				
	◀Color: Clear				
	◀Quantity: 10pcs/pack				
	◀Type: Refillable Bottles: 15ml, 20ml, 30ml, 60ml				
84	Petroleum Ether, AR	gal	1	3,900.00	3,900.00
85	Phenolphthalein Indicator Powder	bot	1	3,700.00	3,700.00
	AR grade, 125 grams/bot				
86	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				
87	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				
88	Polypropylene Container, 1Ltr. cap.	bot	50	400.00	20,000.00
	Sterile pack of polypropylene container Autoclavable				
	Capacity (ml)-1000				
	Overall height (mm)-200				
	Opening diameter (mm)-41.2				
	Outer diameter (mm)-95				
	Plug- None				
	Material- Polypropylene				
89	Polypropylene container, 500ml. cap.	bot	50	300.00	15,000.00
	Sterilized sample container Autoclavable				
	Capacity (ml)-500				
	Overall Height (mm)-163				



	Opening diameter (mm)-42				
	Outer diameter (mm)- 75				
	Plug-None				
	Material- Polypropylene				
90	Potassium Acid Phthalate (KHP)	bot	2	500.00	1,000.00
	Primary standard acid, ACS Grade, CAS No. 877-24-7 C ₈ H ₅ O ₄ K, FW = 204.23 Assay = ≥99.95 but ≤100.05%. Volume- 500g				
91	Potassium antimony tartrate	bot	1	3,800.00	3,800.00
	Analytical reagent grade, 500g/bottle				
92	Potassium dichromate, AR Grade	bot	8	1,550.00	12,400.00
	500 grams/poly bottle				
93	Potassium dihydrogen phosphate, AR (500g/bot)	bot	2	1,500.00	3,000.00
94	Potassium Nitrate	pack	3	5,800.00	17,400.00
	AR grade				
	Formula: KNO ₃				
	Molar wt: 101.1032 g/mo				
	1kg/pack				
95	Potassium sulfate, K₂SO₄	bot	1	4,070.00	4,070.00
	Analytical reagent grade, 500g/bottle				
96	Potato Dextrose Agar (PDA), 500 grams/bot	bot	1	5,280.00	5,280.00
97	Reagent Grade, NaOH Pellets	pack	3	3,000.00	9,000.00
	AR grade, pellets, 500 grams/pack				
98	Resealable Plastic Bag, Large	pack	2	500.00	1,000.00
	resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack				
99	Resealable Plastic Bag, Medium	pack	6	150.00	900.00
	resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack				
100	Scalpel Blade	box	2	500.00	1000.00
	Stainless steel				
	100 blades/box				
101	Scalpel Handle	pc	20	70.00	1,400.00
	#4, Stainless steel				
102	Sedgewick-Rafter Counting Cell	pc	2	16,000.00	32,000.00
	Material: Brass and Glass				
	Length (") 3				
	Sample volume: 1.0 ml, cell size 50x201x1mm				
	Width(cm): 2.54				
	Length (cm): 7.62				
	Description: Gridded Sedgewick-Rafter Counting Cell, brass, 1.0ml				
103	Shower and eyewash	pc	1	38,000.00	38,000.00
	Stainless Steel Shower & Eyewash Station.				
	Unit comes complete with ABS bowl (250 mm diameter) and ABS shower head (250 mm diameter), chemical resistant PP eye wash nozzle aerated to produce a soft, bubbly, gentle spray with auto-open dust cap, built-in stainless filter & stay-open				



	ball valves, shower head comes with stay-open ball valve and pull rod (pull down to open, push up to close). Unit conforms to ISO 9001:2000 standard. Rate of flow is 20 gallons per minute (gpm) at 30 psi (0.3 MPa) at the shower and is reduced to a flow rate of 1.5 to 2.2 liters per minute (lpm) at the eyewash. The applicable water pressure of the unit is at a minimum of 29.0 psi and a maximum of 87.0 psi (0.2 MPa min-0.6 MPa max).				
104	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)				
105	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)				
106	Silica Gel Desiccant	pack	4	3,630.00	14,520.00
	* Blue Beads				
	* 1kg/pack				
107	Sodium Bicarbonate	bot	2	6,700.00	13,400.00
	☐Sodium Bicarbonate Powder				
	◀USP Pharmaceutical Grade				
	◀CAS: 13-34799				
	◀HIGHEST QUALITY				
	◀Aluminum Free				
	◀1-kg bottle				
108	sodium carbonate	bot	3	1,000.00	3,000.00
	sodium carbonate - analytical grade, 1.00 kg/bot				
109	Sodium Hexametaphosphate, 500g/bot	bot	5	800.00	4,000.00
110	Sodium Hydroxide	bot	8	2,750.00	22,000.00
	☐500 g/bottle, AR, Pellets				
111	Sodium Hydroxide	bot	4	500.00	2,000.00
	☐Technical grade, pellets, 1 kg/bot				
112	Sodium Lauryl Sulfate	bot	1	3,500.00	3,500.00
	AR Grade, 500 gms./btl.				
113	Soil Sample Rings (Core Sampler)	pc	50	140.00	7,000.00
	☐Dimension: 50-60mm diameter, 50-60 mm height, outer diameter apprx. 53mm with cover or plastic end cups				
	☐Material: Aluminum				
114	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 $\pm 0.1^{\circ}\text{C}$, humidity plus or minus 1.5%RH				
	☑Working test range: $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$, 0%RH~100%RH				
	☑Resolution: 0.1°C , 0.1%RH				
	☑Communication protocol: standard I2C protocol				
	☑Line length: 1M				
	☑Wiring method: VCC-red, GND-black, SLC-yellow, SDA-green				
115	Soil Test Kit	set	8	2,500.00	20,000.00
116	Sorbitol (AR) 500g/pack	pack	2	2,000.00	4,000.00
	☑Sorbitol (AR)				
	☑Chemical Formula: $\text{C}_6\text{H}_{14}\text{O}$				
	☑Molecular Wt. 182.172 g/mol.				
117	Stainless Steel Crucible Tongs	pc	1	850.00	850.00
	☑25 cm				
	☑Stainless Steel				
118	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				
119	Sulfuric Acid	bot	3	2,600.00	7,800.00
	☑Analytical Grade (98%)				
	☑2.5 Liters/bot				
	☑specific gravity 1.84				
120	Sulfuric acid, H_2SO_4	bot	2	2,600.00	5,200.00
	☑Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle				
121	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				
122	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 $^{\circ}\text{F}/^{\circ}\text{C}$ temperature unit				
	☑Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	☑Good quality				
	☑Durable				



123	Test Tube Brush	pack	1	2,000.00	2,000.00
	☐For test tubes				
	☐Brush materials resistant to acids, aromatic and aliphatic hydrocarbons, ketones, ethyl acetate esters, trichloroethylene, and hot water.				
	☐Length: at least 10 inches				
	☐Brush size diam. × L: utmost 1 3/8 in. × 4 in.				
	☐Pack of 4 brushes				
124	Thermocouple 100mm Probe Stainless Steel High Temperature Sensor	set	1	260.00	260.00
	☐Operating Temperature:0 – 400°C				
	☐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				
125	Toluene	bot	1	7,300.00	7,300.00
	☐(CAS 108-88-3)				
	☐2.5 liters/bot				
	☐Analytical Grade				
	☐99.5%,				
126	Triple Beam Balance	pc	2	10,000.00	20,000.00
	☐Capacity - 2610g				
	☐Readability - 0.1g				
	☐Repeatability - 0.2g				
	☐Pan size - 152mm ø				
127	Van Veen Sediment Grab Sampler	unit	1	50,000.00	50,000.00
	Stainless steel (AISI 316)				
	Volume: 1.4 L				
	Dimension (close position): l x w x h 38 x 24 x 15.5 cm				
	Sampling area: 200cm ²				
	Weight: 3 kg or more				
	Accessories: Hand spool				
	Features:				
	Has two arms that open and close the grab and includes a chain with an attachment for the main line.				
	Includes a locking mechanism that is released on contact with the bottom, allowing the grab to close.				
	Application: for collecting bottom sediments for biological, hydrological, and environmental studies				
128	Volumetric Flask 100ml	pc	8	1100.00	8,800.00
	☐100 mL (±0.01 mL)				
	☐Borosilicate glass with glass standard taper stopper,				
	☐Class A				



	☐Calibrated				
129	Volumetric Flask 50ml	pc	5	1,050.00	2,250.00
	☐50mL, (±1mL)				
	☐Borosilicate glass with glass standard taper stopper,				
	☐Class A				
	☐Calibrated				
130	Wash Bottle, 250mL cap.	pc	3	200.00	600.00
	☐Material: Plastic (good quality);				
131	Weighing Paper Sheet, Non-Absorbing	pack	1	500.00	500.00
	High-Gloss Pack of 500				
132	Zinc sulfate (ZnSO4. 7H2O) suitable for plant cell and tissue culture	bot	2	3,080.00	6,160.00
	☐molecular weight: 287.54				
	☐500grams/bot				
	Rebidding (from GOODS-22-51)				
133	16 in 1 Drinking Water Test Kit	kit	3	2,000.00	6,000.00
	Professional Hardness Testing Kits, Tap and Well Water Test Strips with Hardness, PH, Mercury, Lead, Iron, Copper, Chlorine, Chromium/Cr, Cyanuric Acid				
134	3.5 mm Gloves Grey M	pairs	2	1,600.00	3,200.00
	☐5 finger neoprene gloves ultraspan in addition to the already full range of gloves cressi.				
	☐For this particular model have been studied as important as the depth of the fingers,perfect closing of the wrist, not through seams.				
	☐100% Neoprene.				
	☐Gloves.				
	☐Made from 3,5 mm neoprene ultra.				
135	95% Ethyl Alcohol, Technical Grade (Gallon)	Gal	30	800.00	24,000.00
136	Acetone	gal	1	1,600.00	1,600.00
	☐Technical Grade				
	☐1 gal				
137	Activated Charcoal suitable for plant cell and tissue culture (5g)	Bot	1	2,500.00	2,500.00
	5 gram/bot				
138	Agar Agar	kg	3	2,800.00	8,400.00
139	Agar Powder	bot	1	1,400.00	1,400.00
	for plant tissue culture, 1kg;				
140	Alcohol, Ethyl	L	10	260.00	2,600.00
141	Ammonium nitrate (NH4NO3) suitable for plant cell and tissue culture	kg	1	8,000.00	8,000.00
142	Ammonium nitrate (NH4NO3) suitable for plant cell and tissue culture	kg	2	8,000.00	16,000.00
143	Analytical Balance (500/0.001 g	unit	1	30,000.00	30,000.00
144	Anemometer (8 in 1)	unit	1	5,000.00	5,000.00
	☐Anemometer (8 in 1 LCD Digital Anemometer Wind Speed Temperature Humidity Altitude Tester)				
	☐Material: ABS				



	☐Model: TL-303-delete				
	☐Color: Black				
	☐Power Supply: 300mAh Rechargeable Lithium Polymer				
	☐Power Supply Model: 602030				
	☐Wind Speed Range: 0-30m/S; 0-5860ft/Min; 0-55 or 0-90km/H; 0-65 Miles				
	☐Resolution: 0.1 M/S; 19ft/Min; 0.2 Knots; 0.3km/H; 0.2 Miles/Hour				
	☐Accuracy: ±5%				
	☐Cold Wind Range: -40-10°C (0-30m/S); -49-50°F (0-65mph)				
	☐Resolution: 0.1°C; 0.1°F				
	☐Accuracy: ±1°C; ±1.8°F				
	☐Temperature Range: -29-70°C; -20-158°F				
	☐Resolution: 0.1°C; 0.1°F				
	☐Accuracy: ±1°C; ±1.8°F				
	☐Relative Humidity Range: 0-100%RH				
	☐Resolution: 0.1%RH				
	☐Accuracy: ±3%RH				
	☐Thermal Index Range: 21.1-54.4°C (0-100%RH); 70-130°F (0-100% Relative Humidity)				
	☐Resolution: 0.1°C; 0.1°F				
	☐Accuracy: ±2°C; ±3.6°F				
	☐Dew Point Range: -29-70°C; -20-158°F				
	☐Resolution: 0.1°C; 0.1°F				
	☐Accuracy: ±2°C; ±3.6°F				
	☐Air Pressure Range: 10-1100hpa; 10-1100mbar; 0.29-32.48 Inches				
	☐Resolution: 0.1hpa; 0.1mbar; 0.01kpa				
	☐Accuracy: ±1.5hpa; ±1.5mbar; ±0.05in measuring column Altitude Range: -700-9000m; -6000-300ft				
	☐Resolution: 1m; 1ft				
	☐Accuracy: ±12m; ±50ft				
	☐Size: Approx. 120x50x25mm / 4.7x2.0x1.0inWeight: Approx. 229g / 8.1oz				
	☐Package List:				
	☐1 x Anemometer1 x USB Cable1 x Bag1 x Hanging Rope1 x Manual				
145	Barfoed's Reagent Solution 1000mL	bot	1	400.00	400.00
	Technical Reagent Grade 1000mL per bottle				
146	Bcd Black - Large	unit	2	13,000.00	26,000.00
	Scuba BCD offers unparalleled comfort, security and excellent lift capacity for an even more enjoyable dive . Description: Scuba BCD offers unparalleled comfort, security and excellent lift capacity for an even more enjoyable dive. Features: Excellent lift capacity Light, strong and durable denier 420 Improved fit: Swiveling buckles, shoulders, low-cut aircell SLS				



	integrated weight system 3-dimensional zippered self-draining pockets 2 rear trim weight pockets Reduced weight: Travel friendly				
147	Benedict's Solution	bot	3	400.00	1,200.00
	Technical Reagent Grade 1000mL/bottle;				
148	Benzylaminopurine (BAP) suitable for plant cell and tissue culture (5g)	bot	1	24,000.00	24,000.00
	5 grams/bot				
149	Campylobacter Selective Agar + Supplement, 500g/bot	bot	1	17,000.00	17,000.00
150	Canada Balsam, for microscopy, 100ml/bot	bot	2	1,800.00	3,600.00
151	Capillary Clay Sealer/wax	L	5	259.20	1,296.00
	Its a Clay Sealant and Specimen Holding Tray				
	Clay sealant and 24-place holding tray for all types of microhematocrit capillary tubes.				
	This capillary tube sealing tray contains a unique wax compound that quickly forms a leak-tight seal. Non-toxic, non-drying and non-hardening, the sealant is formulated to withstand centrifugation. There is no need for plastic caps or heat sealing. The tray has 24 numbered places for easy patient identification.				
	A hard, brittle wax orange in color useful for sealing crystals in glass capillaries. When applied properly, Capillary Wax will provide an airtight seal. Also referred to as sticky wax even though it is not sticky at room temperature.				
152	Carmin Powder, AR, 25g/btl	bot	1	2,000.00	2,000.00
	Carmin powder is a red compound used for staining.				
153	Centrifuge Rack, Multifunction	unit	5	750.00	3,750.00
	For storage and general-purpose				
	Fit for 10mL, 15mL, 50mL centrifuge tubes				
	The centrifuge tube rack can be disassembled and easily assembled.				
	The centrifuge tube rack after assembly has two layers				
	Holds 30 pcs of 15 mL tubes and 20 pcs of 50mL tubes				
154	Chloroform 2.5L	bot	2	3,500.00	7,000.00
	Analytical Reagent Grade 2.5L per bottle				
155	Cobalt chloride (CoCl₂. 6H₂O) suitable for plant cell and tissue culture	bot	1	1,600.00	1,600.00
	■Molecular weight: 249.6				
	■500g/bot				
156	Decarboxylase broth base	bot	1	1,945.68	1,945.68
	A 500g Medium employed to serve the purpose of differentiating bacteria on the basis of their ability to decarboxylate the				



	amino acids.				
157	Digital pH TDS EC Meter kit	kit	2	1000.00	2,000.00
	☐Digital pen style pH meter				
	☐TDS meter tester				
158	Digital Weighing Scale- 0.01-5kg	unit	1	13,000.00	13,000.00
	☐Capacity: 0.01g to 5kg				
	☐Type: Laboratory Balance				
	☐Power Supply: 100-240V/50-60H				
	☐Size: 320*205*100mm				
159	Disposable Gas Generator Envelopes	box	1	20,000.00	20,000.00
	☐Anarobic and CO2 indicator				
	☐for GasPak system				
	☐10 foil envelopes per box				
160	DNA extraction kit	set	1	25,000.00	25,000.00
	☐Extract genomic DNA from different samples (e.g., manure, blood, tissue).				
	☐Silica-gel membrane-based spin-column technology				
	☐All buffers, elution water, and microtubes included.				
	☐= />50 DNA preparations				
161	Ethanol	bot	5	2,520.00	12,600.00
	AR grade, 2.5L/bot, at least 95% v/v				
162	Filter paper Grade 41	box	2	4,500.00	9,000.00
	☐Parameters: Grade 41 Fast ashless filter paper, 125 mm circle (100 pcs/box).				
	☐Grade: Grade 41				
	☐Format: Circles				
	☐Type: Ashless				
	☐Typical Particle Retention in Liquid: 20 micron				
	☐Nominal basis weight: 85 g/m squared				
	☐Typical water flow rate: 254 ml/min				
	☐Nominal air flow rate: 4 s/100 mL/square inch				
	☐Nominal as Content 0.007%				
	☐Material: High quality cotton linters				
	☐alpha Cellulose Content Min.: >97%				
163	Finepoint High Precision Forceps	pc	2	300.00	600.00
	☐Tip Style: Fine				
	☐Material: Stainless Steel				
	☐Length 4.5"				
164	Genomic DNA Extraction Kit	kit	1	25,000.00	25,000.00
	☐Extract genomic DNA from different samples (e.g., manure, blood, tissue).				
	☐Silica-gel membrane-based spin-column technology				
	☐All buffers, elution water, and microtubes included.				
165	Glass Staining Block with Cover	pc	3	1,600.00	4,800.00
	☐Clear polished glass				
	☐Cavity 30mm diameter x 6mm deep				
	☐Complete with flat glass cover				
	☐40mm square to minimize evaporation				



166	Glassware Vacuum Filtration Memne Buchner Funnel Flask Apparatus Kit	set	2	5,000.00	10,000.00
	Glassware Vacuum Filtration Memne Buchner Funnel Flask Apparatus Kit with Manual Pump and MCE Filter				
	- Materials: borosilicate glass, rubber, aluminum, abs				
	- Diameter of Sand Cone: 40mm, 40mm is also the inner diameter of the filter joint. So you have to choose the membrane filters of larger size than Diam. 40mm.				
	- Filter Flask Capacity: 500ml or 1000ml				
	- Graduated Funnel Capacity: 300ml (50mL graduations for quick, easy measurement)				
	- Funnel Top Diameter: 8cm; the filter is 12cm high.				
	- Funnel Top Volume: 300ml				
	- Membrane diameter: 50mm				
	- Membrane filter size: 0.22/0.45um				
	- Manual Pump: ABS material, -600mm Hg.				
167	Gowers diluting fluid	bot	1	650.00	650.00
	contents 500 ml RBC diluents used to count RBC				
168	Hand Soil Auger	unit	1	3,500.00	3,500.00
	☐Material: stainless steel				
	☐Auger length: 25cm				
	☐Length: 0.5m				
	☐External Diameter: 38mm				
169	herbarium sheet 42 x 29cm	pack	2	2,000.00	4,000.00
	color: white, 100pcs/pack				
170	Histidine	bot	1	2,000.00	2,000.00
	Analytical Reagent Grade 25g per bottle				
171	Hydrochloric Acid	bot	1	1,900.00	1,900.00
	☐AR grade				
	☐2.5 liter/btl.				
	☐36.5-38%				
	☐impurities <1ppm free chlorine				
172	Hydrochloric acid, HCl	bot	1	1,900.00	1,900.00
	Analytical reagent grade, concentrated, 2.5L/bottle				
173	Infrared Loop sterilizer	unit	1	10,000.00	10,000.00
	Infrared Loop Sterilizer DS900,220v laboratory electric heating high temperature, disinfection infra-red sterilizer, used to disinfect or sterilize inoculating loops/needles for isolating microorganisms				
174	Iron Chloride, Analytical Grade, 500g/btl	bot	1	3,870.00	3,870.00
	☐AR grade, 500 g per bottle				
175	Kinyoun's Carbol-fuchsin stain	bot	1	8,000.00	8,000.00
	☐For Cryptosporidium modified acid-fast staining procedures.				
	☐1 bottle contains 500 mL				
176	Lab Gown Long Sleeves L	pc	2	500.00	1,000.00
	☐Lab Coat High-quality White				



	☐Size- Large; long sleeves				
177	Lab Gown Long Sleeves M	pc	2	500.00	1,000.00
	☐Lab Coat High-quality White				
	☐Long Sleeves				
	☐Medium size				
178	Loading Dye for Electrophoresis	Vial	1	3,100.00	3,100.00
	Loading Dye for Electrophoresis, (2-3 colors) 6x min. concentration, at least 3ml volume PER VIAL				
179	Lugol's Solution	bot	3	1,500.00	4,500.00
	Lugol's Solution 1 li/bottle;				
180	Malachite green stain	bot	1	2,000.00	2,000.00
	☐Use as a counterstain of Ziehl-Neelsen and Kinyoun staining.				
	☐1 bottle contains 500 mL				
	☐Laboratory grade				
181	Manganese Chloride, Analytical Grade, 500g/btl	bot	1	1,500.00	1,500.00
	☐AR grade, 500g per bottle;				
182	Manual Oil Press Machine	unit	1	14,500.00	14,500.00
	Manual oil press extractor machine Specification:				
	Raw material: peanut, seeds, nuts				
	Type: manual model				
	Weight: 3kg				
	Size: 39*9*30cm				
	Oil press machine Raw Material:				
	suitable for most of the oil content is more than 25% of the oil crops, such as peanut, sunflower seed, tea seed, sesame seed, walnut, olive, coconut oil, flax seed, etc				
183	Manual Pipette Pump	pc	5	700.00	3,500.00
	Manual Pipette Pump (plastic), w/ fast release lever/button (2ml)				
184	Manual Pipette Pump - 10ml	pc	3	700.00	2,100.00
	Manual Pipette Pump (plastic), w/ fast release lever/button (10ml)				
185	Manual Pipette Pump- 25ml	pc	2	700.00	1,400.00
	Manual Pipette Pump (plastic), w/ fast release lever/button (25ml)				
186	Masking tape, autoclavable, for laboratory use	roll	1	450.00	450.00
	1" wide x 55m length;				
187	Membrane Filter	box	2	3,000.00	6,000.00
	☐Mixed cellulose esters (MCE) membrane				
	☐Naturally hydrophilic				
	☐Pore size: 0.22µm-3µm,				
	☐Diameter: 50mm				
	☐1 box with atleast 100 pcs				
	☐non-sterile				
188	Mesh Filter Cloth	pc	3	300.00	900.00
	☐Color: White.				
	☐Material: Nylon				
	☐Mesh: 200 mesh				



	☐Size: 1m x 1m/39.4"m x 39.4"				
189	Methanol 2.5L Analytical Reagent Grade 2.5L per bottle;	bot	1	2,000.00	2,000.00
190	Microcapillary tube diagnostic purposes : blue capillary tube heparinized, 1 barrel/tube/ contains 100 tubes	bot	10	240.00	2,400.00
191	Microscope Slides and cover slips ☐Pre-Cleaned Blank slides with 50pcs./box 22 x 22 mm square Cover Slip	box	6	370.00	2,220.00
192	MINDRAY HEMATOLOGY REAGENTS for" Mindray model (BC-2800 Veterinary Auto Hematology Analyzer)" ☐REAGENTS for" Mindray model (BC-2800 Veterinary Auto Hematology Analyzer)" ☐1 unit M30 Diluent 20 Lit. ☐1 unit M30 Rinse 20 Lit. ☐1 unit M30 CFL Lyse 500ml ☐1 unit M30 EZ Cleanser 100ml ☐1 unit M30 Probe Cleanser 50ml ☐NOTE: EXLCUSIVE REAGENT FOR MINDRAY MODEL BC-2800 VET. AUTO	set	1	45,000.00	45,000.00
193	Molybdic acid (sodium salt) (Na₂MoO₄. 2H₂O) suitable for plant cell and tissue culture 500grams/bot, AR;	bot	1	2,200.00	2,200.00
194	Myo-inositol suitable for plant cell and tissue culture (100gms/bot)	bot	2	5,850.00	11,700.00
195	Myo-inositol suitable for plant cell and tissue culture (100gms/bot) ☐accuracy atleast 1mm ☐double scale measurement ☐no battery ☐Ultra precision and effortless operation.	bot	2	5,850.00	11,700.00
196	Ordinary Vernier Caliper ☐Plastic material ☐Up to 150mm measuring range	pc	2	110.00	220.00
197	Paraffin Wax ☐Form: pellets, white ☐Ign residue: ≤0.05% ☐Melting point: 43-95 degrees celsius ☐Solidification point: 54-56 degree celcius1kg per bag	bag	1	4,000.00	4,000.00
198	Paraffin, Tissue Embedding Medium, Kg Tissue Embedding Wax, Medium Pure Paraffin wax with Added Polymer for precise embedding and sectioning	pack	6	1,500.00	9,000.00
199	Plastic test tube rack 4 holes holder Condition: 100% Brand New Quantity: 1 Pc Size app: 18cmx4cmx6.5cm, hole diameter: app 3cm	pc	4	150.00	600.00



	Material: Plastic				
	Color: Blue				
200	Polymerase Chain Reaction Tubes Rack	pc	1	3,500.00	3,500.00
	Polymerase Chain Reaction Tubes rack (for storage)(w/ removable hinged lid), accommodates 168 x 0.2 mL + 12x 1.5ml OR 40 x 0.5 mL + 12x 1.5ml tubes. pack of 5				
201	Potassium Bromide	bot	1	2,066.00	2,066.00
	<input checked="" type="checkbox"/> Anhydrous				
	<input checked="" type="checkbox"/> Lab grade/ Analytical reagent grade				
	<input checked="" type="checkbox"/> Expiration date(3 years from the delivery date)				
	<input checked="" type="checkbox"/> Packed in Teflon bottles				
202	Potassium Chromate	bot	1	1,050.00	1,050.00
	<input checked="" type="checkbox"/> Anhydrous				
	<input checked="" type="checkbox"/> Lab grade/ Analytical reagent grade				
	<input checked="" type="checkbox"/> Expiration date(3 years from the delivery date)				
	<input checked="" type="checkbox"/> Packed in Teflon bottles				
203	Potassium Iodate 500g/bot	bot	1	7,000.00	7,000.00
	Analytical grade;				
204	Potassium Nitrate (KNO₃) suitable for plant cell and tissue culture	pack	1	5,500.00	5,500.00
	1 kg/pack of Potassium Nitrate;				
205	Potassium Nitrate (KNO₃) suitable for plant cell and tissue culture	pack	2	6,000.00	12,000.00
	1 kg/pack of Potassium Nitrate;				
206	PPE Medical Grade Coverall Suit	set	2	300.00	600.00
	<input checked="" type="checkbox"/> Free size (best fit Small to XL)				
	<input checked="" type="checkbox"/> Microfiber and Tafetta Water Repellant				
	<input checked="" type="checkbox"/> Washable and Reusable				
	<input checked="" type="checkbox"/> Garterized hood, cuffs, ankle and waist				
	<input checked="" type="checkbox"/> Lightweight				
207	Primer for Campylobacter	Ampule	1	10,000.00	10,000.00
	<input checked="" type="checkbox"/> Forward-reverse primer for Campylobacter				
	<input checked="" type="checkbox"/> Ampule				
208	Primer for E.coli O157H7	Ampule	1	10,000.00	10,000.00
	<input checked="" type="checkbox"/> Primers, forward and reverse oligonucleotides for stx1 and stx 2 of E. coli O157H7				
	<input checked="" type="checkbox"/> Ampule				
209	Primer invA for Salmonella	Ampule	1	10,000.00	10,000.00
	<input checked="" type="checkbox"/> Primer, oligonucleotides forward and reverse for invA of Salmonella				
	<input checked="" type="checkbox"/> Ampule				
210	Primer sets for qPCR	sets	2	5,000.00	10,000.00
	Paid services to synthesize, pack the lyophilized primers, and send them to the end user				
211	Resealable Plastic Bag, Large	pack	1	500.00	500.00





	☐resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack				
212	Resealable Plastic Bag, Medium	pack	1	150.00	150.00
	resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack				
213	Scalpel Blade	box	5	500.00	2,500.00
	☐Stainless Steel				
	☐100 blades/box				
214	Scalpel Handle	pc	5	70.00	350.00
	☐#4, Stainless steel				
215	Sheather's sugar flotation solution	bot	2	2,000.00	4,000.00
	☐Sheather's sugar flotation solution				
	☐With a specific gravity of 1.25 to 1.27.				
	☐For the fecal flotation method.				
	☐Laboratory grade				
	☐1 bottle contains 1 L of solution.				
216	Sodium Iodide	bot	1	5,445.00	5,445.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
217	Soil Scoop/Shovel, plastic	pc	10	90.00	900.00
	Material: PP				
	Dimensions: 290x100x75mm(11.42x3.94x2.95in)(approx)				
	Color: Green				
218	Soil Tester Kit - 20 tests	kit	2	3,600.00	7,200.00
	pH: 4 10				
	Nitrogen: 0 -5 10-20 20 -30 >40 Kg/Acre as N				
	Phosphorous: 0 – 10 10 – 25 25 – 40 > 40 Kg/Acre as P2O5				
	Potassium: 0 25 50 100 150 200 Kg/Acre as K				
	Organic Carbon: < 0.4 % / 0.4 -0.8 % / > 0.8 % w/v				
	Rapid test Soil Tester Kit for pH N P K; 20 tests				
219	Stainless Steel Mesh Sieve (Set)	set	1	15,000.00	15,000.00
	☐Mesh Type: Stainless Steel Mesh				
	☐Sieve Frame: Stainless Steel Frame				
	☐Measurement of 6 sieves:				
	◀No. 5 (4,000 micron)				
	◀No. 10 (2,000 micron)				
	◀No. 35 (500 micron)				
	◀No. 60 (250 micron)				
	◀No. 120 (125 micron)				
	◀No. 230 (63 micron)				
	☐Sieve diameter: 7 inches (approximation)				
	☐Includes: Lid and Catch Pan for every sieve				
220	Standard Lab Test Sieve	pc	3	300.00	900.00




	☐Stainless Steel Sieve.				
	☐Size: diameter 20cm,				
	☐height 5cm.				
	☐Aperture: 100um				
	☐mesh 0.15mm aperture				
221	Sterile Nuclease-Free Water	bot	1	5,000.00	5,000.00
	Sterile Nuclease-Free Water (at least 500ml)				
222	Storage Tray	pc	10	60.00	600.00
	☐Tray basket organizer				
	☐Product Dimension: L(19.3cm), W(24.5cm), H(6.5cm)				
	☐Plastic, any color				
223	Tertiary Butyl Alcohol (TBA), Technical, 1L/btl	bot	1	700.00	700.00
	tert-Butanol, synthesis grade (CH ₃) ₃ COH				
224	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	pc	3	800.00	2,400.00
	☐Stainless steel;				
225	Test Tube Racks, 12MM x 12Holes	pc	3	600.00	1,800.00
	Stainless Steel Holes Test Tube Rack				
226	Thidiazuron (TDZ) 10mg/bot	bot	1	15,000.00	15,000.00
	suitable for plant tissue culture				
227	Tryptophan	bot	1	2,500.00	2,500.00
	Analytical Reagent Grade 500g per bottle				
228	Urine Strips (Right Sign) 10u, 100pc/box	box	1	1,500.00	1,500.00
229	Utility Bucket	pc	3	280.00	840.00
	☐Utility bucket/ pail with				
	☐Cover.				
	☐Capacity: 10L Product				
	☐Dimension: L(27cm), W(27cm), H(26cm)				
230	Vaccum Pump Oil 19	gal	1	2,000.00	2,000.00
	☐Vaccum Pump Oil 19 Grade				
	☐atleast 1 Gallon				
231	Vacutainer EDTA Tubes	tube	2	1,650.00	3,300.00
	☐blood collection tubes, 2 ml				
232	Water Purifier Filter Cartridge Sets	set	2	3,000.00	6,000.00
	☐Water Purifier Filter Cartridge Set:				
	☐Includes: (designed for SCSJ-III 15L Water Purifier)				
	◀2 pieces of 10" Polypropylene Pleated Filter Cartridge (1 or 5 microns)				
	◀4 pieces of 10" Activated Carbon Filter Cartridge				
	☐Purpose: SHOULD fit the SCSJ-III 15L Water Purifier				
233	Water Quality Test Meter	pc	1	2,000.00	2,000.00
	☐2 in 1 kit, with calibration packets and user's manual				
	◀1 TDS meter				
	◀1 pH meter				
	☐Hand-held and portable, pen-sized				
	☐Color: yellow (pH) + blue (TDS)				



	☑Material: plastic + metal				
	☑Size: length 15.4cm				
	☑Accurate reading				
	☑Good quality				
	☑Durable				
234	Qualitative filter paper, Grade 1, or its equivalent	pack	1	700.00	700.00
	☑Material: cellulose filters, circles				
	☑Pack Size: 100 pcs				
	☑Parameter: 0.25 psi wet burst				
	☑Diameter :25 mm				
	☑Thickness: 180 μm				
	☑Pore size: 11 μm (Particle retention)				
	☑Basis weight: 87 g/m2				
235	Activated Acid-washed Charcoal	pack	1	24,600.00	24,600.00
	☑Chemical must be plant tissue culture tested for at least 20 years				
	☑ISO complaint				
	☑ACS REAG				
	☑PH EUR				
	☑meets USP Standards				
	☑Bioreagent suitable for cell culture				
	☑2.5kg per pack				
236	DELETED				
237	Ammonium Molybdate	bot	1	1,500.00	1,500.00
	Analytical Reagent - 500grams/bot				
238	Dimethyl Sulfoxide, Analytical Reagent	L	2	2,500.00	5,000.00
239	Kjeltabs	pack	1	500.00	500.00
	☑Chemical Name or Material: Copper Kjeltabs				
	☑CAS: 7758-99-8				
	☑Form: Flat Round Speckled Tablets				
	☑Pack Size: 1000 tablets				
240	Sodium Hydroxide, Technical Grade, 25kg/pack	pack	1	3000.00	3,000.00
241	60X Achromatic Objective Lens, NA=0.80	pc	1	40,000.00	40,000.00
					
242	acA1920-25um Monochrome USB 3.0 Camera (2 megapixel and 25 frames per second)	pc	1	48,000.00	48,000.00
					



243	100X DIN Plan Commercial Grade Objective, NA= 1.25	pc	1	35,000.00	35,000.00
					
	Additional Items (New)				
244	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 hazy 1 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 :ZEMGGZBWXRYJHK-UHFFFAOYSA-N				
245	3 layer Non-woven surgical face mask, at least 50 pcs. per box	boxes	10	200.00	2,000.00
246	95% Ethyl Alcohol, Technical Grade (Gallon)	gallon	5	800.00	4,000.00
247	Agar for plant cell and tissue culture	pack	1	6,000.00	6,000.00
	500 grams/pack;				
248	Alcohol, Denatured	gallon s	5	600.00	3,000.00
249	Alcohol, Ethyl, 70%	L	15	130.00	1,950.00
250	Ammonia, NH3	bot	1	2,600.00	2,600.00
	Concentrated, Analytical reagent grade, 2.5L/bottle;				
251	Ammonium Nitrate	pack	3	8,000.00	24,000.00
	■AR grade; at least 98% purity				
	■Molecular Wt. 80.043 grams per mol.				
	■1kg/pack				
252	Ammonium nitrate (NH4NO3) suitable for plant cell and tissue culture	kgs	1	5,000.00	5,000.00
253	Barometer/Thermometer/Humidity Data Logger	pc	1	35,000.00	35,000.00
	Barometric Pressure : 10 to 1100 hPa; 7.5 to 825.0 mmHg; 0.29 to 3248 inHg				
	Resolution : 0.1 hPa, 0.1mmHg, 0.01inHg				
	Temperature: 32 to 122°F (0 to 50°C)				
	Resolution/Basic Accuracy: 0.1°F(°C) / ±1.5°F (0.8°C)				
	Relative Humidity: 10 to 90%RH				
	Resolution/Basic Accuracy: 0.1% / ±(4% of rdg + 1% RH)				
	Datalogging: 20M data using 2G SD card				



	Dimension: 5.2 x 3.1 x 1.3" (132 x 80 x 32mm)				
	Weight: 10oz (285g)				
254	Beaker, Glass, 1000mL	pc	4	1,000.00	4,000.00
	☐1000mL capacity, borosilicate glass;				
255	Beaker, Glass, 500mL	pc	5	1,000.00	5,000.00
	☐500mL capacity, borosilicate glass;				
256	Benzylaminopurine (BAP) suitable for plant cell and tissue culture (5g)	bot	1	24,000.00	24,000.00
	5 grams;				
257	Biological Safety Cabinet- Class I	set	1	165,000.00	165,000.00
	suitable for work involving low to moderate risk agents (Biosafety Levels 1, 2 and 3) where there is a need for containment, but not for product protection.				
	the HEPA filter included protects the environment by filtering air before it is exhausted				
	With the negative pressure, personnel protection is made possible by constant movement of air into the work area				
	Specifications:				
	UV lamp for sterilization				
	Soft touch control panel, LCD display				
	Energy-saving, high efficiency, low noise.				
	With memory function in case of power-failure.				
	304 stainless steel work stable, easy for cleaning.				
	Stable air flow system; provide firm protection to person and environment.				
	External Size: (W*D*H), mm: 900*713*1250mm				
	Internal Size:(W*D*H), mm: 900*713*1250mm				
	Voltage: 220V (AVR included)				
258	Boiling Stone or Chips	bag	1	2,000.00	2,000.00
	☐1000pcs/bag Glass Marbles High Precision Lab Glass Beads Used in distillation to prevent liquid level boiling				
259	Boric acid, AR	btl	1	4,000.00	4,000.00
	Certified molecular biology grade				
	Suitable for electrophoresis, ≥99.5%				
	Size: 500g per bottle				
260	Brush Suitable for 50mL Graduated Cylinders	pc	3	200.00	600.00
	☐Bristle Material: Black Nylon				
	☐Suitable for 50mL Graduated Cylinders				
261	Calcium Chloride (CaCl₂) suitable for plant cell and tissue culture	btl	1	1,600.00	1,600.00
	Dried 1.5-2.5mm Molecular Weight: 246.47, 500grams/bot				
262	Chloramphenicol for tissue culture 25 grams	btl	1	12,000.00	12,000.00



263	Cylindrical Form Borosilicate Glass Flash with Aluminum Base 1900mL	pc	1	45,000.00	45,000.00
264	Digital Weighing Scale	pcs	2	3,500.00	7,000.00
	<i>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</i>				
	<i>-Water resistant</i>				
	<i>-FREE adaptor included!High precision strain gauge technology</i>				
	<i>Rapid price amount computing</i>				
	<i>Red LED display</i>				
	<i>Tare / Zero / Add-up / Total display / Clear total</i>				
	<i>Dual-display: weight, unit price, amount</i>				
	<i>Framework structure with pressure-limit protection</i>				
	<i>Overload and low voltage indication</i>				
	<i>AC/DC charging with built-in rechargeable battery</i>				
	<i>Automatic energy saving mode</i>				
	<i>Five different unit price memories</i>				
	<i>Automatic temperature compensationAvailable in 10, 15 and 30kgs</i>				
	<i>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</i>				
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	<i>AC/DC charging with built-in rechargeable battery</i>				
	<i>Automatic energy saving mode</i>				
	<i>Five different unit price memories</i>				
	<i>Automatic temperature compensation</i>				
265	Eosin G Stain	btl	1	1,500.00	1,500.00
	<i>Eosin G Stain, 2% solution for live/dead</i>				



	<i>boar semen cells - 50 ml</i>				
	<i>Stain dead or damaged boar semen red</i>				
	<i>Minitub - Germany</i>				
266	Ethanol	gallon	2	2,500.00	5,000.00
	<i>AR grade, 2.5L, at least 95% v/v</i>				
267	Ethanol Absolute	btl	3	2,500.00	7,500.00
	<i>2.5 Liters/ bottle;</i>				
268	Ferrous sulfate (FeSO₄, 7H₂O) suitable for plant cell and tissue culture	btl	1	1,000.00	1,000.00
	<i>500 grams;</i>				
269	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>				
270	Field Tape Measure 50m	pc	1	800.00	800.00
271	Glacial Acetic Acid	btl	2	3,500.00	7,000.00
	<i>☐Analytical Reagent grade 2.5L per bottle;</i>				
272	Gloves, Nitrile, Large	box	2	1,500.00	3,000.00
	<i>☐Glove Type: Chemical Resistant Disposable Gloves</i>				
	<i>☐Glove Material: Nitrile</i>				
	<i>☐Powder-Free</i>				
	<i>☐1 box of 100 or 50 pairs</i>				
	<i>☐Food Safe</i>				
	<i>☐Size: large</i>				
273	Gloves, Nitrile, Medium	box	2	1,500.00	3,000.00
	<i>☐Glove Type: Chemical Resistant Disposable Gloves</i>				
	<i>☐Glove Material: Nitrile</i>				
	<i>☐Powder-Free</i>				
	<i>☐1 box of 100 or 50 pairs</i>				
	<i>☐Food Safe</i>				
	<i>☐Size: Medium</i>				
274	Gloves, Nitrile, Small	box	2	1,500.00	3,000.00
	<i>☐box or 100-50 pairs, small</i>				
	<i>☐natural rubber latex-free, powderless</i>				
	<i>☐micro grip</i>				
275	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</i>				



	back. Additionally, this microscope also allows side-by-side image comparison of a capture vs live image, on screen cross hair, and more.				
	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.				
	Note: Source and preferred brand: Nikon E200 HD Digital Microscope (https://microscopecentral.com/products/nikon-e200-hd-digital-microscope-package?variant=21386289793)				
	DIGITAL MICROSCOPE SPECIFICATIONS:				
	Head: Trinocular 30 degree inclined w/ photo tube & c-mount				
	Eyepieces: CFI E 10x (20mm)				
	Objectives: CFI E Plan Achromat 20x, 40x, 100x Oil, and 60x Positive Phase Contrast				
	Stage: Mechanical stage with slide holder				
	Condenser: E2 Abbe Condenser N.A. 1.25, Aperture diaphragm with position guide markings for respective objectives				
	Focus: Coaxial coarse/fine focus controls				
	Illumination: LED illumination				
	Misc: Dust Cover, Power Cord, Manual				
	Warranty: 5 Year Mechanical 1 Year Electrical				
276	Heating Mantle	pcs	1	12,000.00	12,000.00
	■ 220V 500mL/1L/2L Heating Mantle & Magnetic Stirrer Stirring Temperature Regulation Digital Display Lab Electric Sleeve - 2L				
277	herbarium sheet 42 x 29cm	pack	1	2,000.00	2,000.00
	Color: white				
	Size: 42 x 29cm, 100pc/pack				
278	IAA (Indole-3-Acetic Acid),	btl	1	4,500.00	4,500.00
	■ 500g, AR;				
279	Immersion oil for microscopic analysis, Type A, 30mL	btl	2	2,100.00	4,200.00
	Type A 30 ml				
280	Indoleacetic acid (IAA) suitable for plant cell and tissue culture (5g)	btl	1	4,000.00	4,000.00
	5 grams;				
281	indolebutyric acid (IBA)	bot	2	4,000.00	8,000.00
	Suitable for plant tissue culture 5 gms/bot.				
282	Industrial Handheld Label Printer Kit	set	1	70,000.00	70,000.00
	Handheld label maker capable of creating multi line labels for clear identification.				
	QWERTY keyboard contains letters A to Z, numbers 0 to 9, and paired with backlit LCD				



	graphics display for easier, more efficient labeling				
	Prints text in single color and in different text sizes ranging from 4 point to 103 point				
	Compatible with Brady M Series Label Tape Cartridges to enable printing of various label styles and widths.				
	Printer Output: Monochrome				
	Printer Technology: Thermal				
	Scanner Type: Portable				
	Size: 11.5 in H x 6 in W x 3.5 in D				
	Media Size Maximum 1" Width				
	Item Weight: 5.98 pounds				
	Length: 10.08 inches				
	Width: 6.81 inches				
	Style Printer				
	Included:				
	Portable Label Printer				
	Hard Carrying Case				
	Li-Ion Rechargeable Battery and Charger				
	USB Cable				
	Quick Start Guide				
	(1) AC Adapter/Battery Charger				
	(1) Rechargeable NiMH Battery Pack				
	(1) Brady CD				
	(1) Free Brady WorkStation Basic Design Suite Download				
	Other inclusions:				
	10 units of Compatible Label tape cartridges (Black on White/Clear self-laminating tapes; Size: 1"x1.5"x.5")				
	Preferred Brand and Model: Brady BMP41				
283	Iodine crystals	bot	1	2,500.00	2,500.00
	Analytical Grade resublimed, 500g per bottle;				
284	Lab Gown Long Sleeves L	pcs	4	500.00	2,000.00
	☐ Lab Coat High-quality White				
	☐ Size- Large; long sleeves				
285	Lab Gown Long Sleeves M	pcs	4	500.00	2,000.00
	☐ Lab Coat High-quality White				
	☐ Long Sleeves				
	☐ Medium size				
286	Lugol's Solution	bot	2	1,500.00	3,000.00
	Lugol's Solution 1 li/bottle;				
287	Magnetic Bar Set	set	1	4,000.00	4,000.00
	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				
288	Mannitol (AR) 500g	pack	1	2,000.00	4,000.00
	☐Mannitol (AR)				
	☐Formula: C6H14O6				
	☐Molecular Wt. 182.172g/mol.				
289	Microtome Blade, Stainless Steel Disposable	box	1	4,500.00	6,000.00
	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.				
290	Myo-inositol	bot	4	5,830.00	23,320.00
	☐AR, 100g;				
291	Myo-inositol suitable for plant cell and tissue culture (100gms)	bot	2	5,830.00	11,660.00
292	Nutrient Agar, 500g Bottle	bot	2	7,260.00	14,520.00
	to be used for the culture of test organisms				
	nutrient medium used for the cultivation of microbes supporting growth of a wide range of non-fastidious organisms				
	500g bottle				
	recommended for the cultivation of less fastidious microorganisms from clinical and nonclinical samples. It can be enriched with blood or other biological fluids.				
	Ingredients:				
	Peptone - 5 gms/liter				
	HM Peptone B # - 1.50 gms/liter				
	Yeast Extract - 1.50 gms/liter				
	Sodium Chloride - 5.00 gms/liter				
	Agar - 15.00 gms/liter				
	Final pH (at 25°C) 7.4±0.2				
	**Formula adjusted, standardized to suit performance parameters				
	*Equivalent to Beef extract				
293	Ordinary Vernier Caliper	pc	5	300.00	1,500.00
	☐Plastic material				
	☐Up to 150mm measuring range				
	☐accuracy atleast 1mm				
	☐double scale measurement				
	☐no battery				
	☐Ultra precision and effortless operation.				
294	Portable Computer-Aided Sperm Analysis (CASA) System	set	1	280,000.00	280,000.00
	Portable Computer-Aided Semen Evaluation (CASA) System- Complete Set				
	Description:				



	<i>Performs fast and accurate pen-side semen analysis.</i>				
	<i>Fast calculation of concentration, motility and total doses (<1 min per sample).</i>				
	<i>Cloud service to access data remotely, export records and backup data.</i>				
	<i>Ability to capture and store video image of samples.</i>				
	<i>Easy to use software allows for fast and efficient analysis.</i>				
	<i>Portable, compact design allows for easy integration into any system.</i>				
	<i>Specifications and Inclusions:</i>				
	<i>1 unit Portable CASA system (includes softwares for swine and bovine semen)</i>				
	<i>1 unit iPad Mini (230V)</i>				
	<i>measuring/sampling chips (100 tests - 2 packs of 50 chips/pack)</i>				
	<i>heater block</i>				
	<i>light source</i>				
	<i>2 charger cords (for heater block and iPad Mini)</i>				
	<i>foldable stand</i>				
	<i>hard carrying case with strap</i>				
	<i>sample cups</i>				
	<i>Note to the TWG: No power requirement needed as this is only installed on the iPad Mini (230V) as a software system.</i>				
295	Portable Freezing Unit for 90 Straws-Complete Set	set	1	72,000.00	72,000.00
	<i>Freezing unit for 90 straws 0.5 ml and 0.25 ml - Complete Set</i>				
	<i>Description:</i>				
	<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>				



	floating rack for 90 straws				
	stainless steel container with lid: 28 l				
	Dimension: (L 530 x W 325 x H 200 mm)				
	Recommended reference for specifications:				
	REF.: 15043/0736 (https://www.minitube.com/catalog/en/freezing-unit-for-90-straws-p1735/)				
	REF.: 15043/0736 (https://www.minitube.com/catalog/en/freezing-unit-for-90-straws-p1735/)				
296	Portable ultrasound scanner for transabdominal pregnancy detection in sows and small ruminants.	set	1	300,000.00	300,000.00
	Portable ultrasound scanner for transabdominal pregnancy detection in sows and small ruminants				
	Integrated auto-measure function to easily measure back fat thickness. Complete with probe. Compact and light weight.				
	Portable, battery operated				
	Robust, electric probe				
	Very easy to clean				
	Integrated auto-measure function to easily measure back fat thickness				
	PRODUCT FEATURES				
	Monitor size: 5.0" TFT-LCD				
	Display modes: B, B+B				
	Image gray scale: 256 levels				
	Measure functions: Distance, circumference, area, volume				
	Detection depth: up to 240mm				
	Battery capacity: 3000mAh, 7.4V				
	Power consumption: 8W				
	Weight (incl. probe): 854 g				
	Overall size: 240 x 117 x 40 mm (L x W x H)				
	Electrical connection: 100-240 V				
	SCOPE OF DELIVERY				
	1 Main device with 3.5 MHz electronic sector convex probe (70° forward) and 5 TFT monitor				
	1 Transport case				
	2 Carrying strap				
	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 Repro Jelly, bottle 100 ml				
	1 Manual				
	Recommended reference for specifications:				
297	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				
298	Potassium Nitrate	pack	4	5,800.00	16,000.00
	☐AR grade				
	☐Formula: KNO3				
	☐Molar wt: 101.1032 g/mo				
	☐1kg/pack				
299	Potassium Nitrate (KNO3) suitable for plant cell and tissue culture	kg	1	5,500.00	5,500.00
	1 kilogram of Potassium Nitrate;				
300	Potassium permanganate, ACS reagent, ≥99.0% Crystals	bot	1	1,500.00	1,500.00
	100 grams				
301	Potassium Thiocyanate Lab. Grade 500g	bot	1	2,500.00	2,500.00
302	ribavirin (50mg)	bot	1	17,500.00	17,500.00
	Viricide(for plant use)				
	Quality Level 200				
	assay:≥98% (TLC)				
	form: powder				
	solubility: water: 19.60-20.40 mg/mL, clear, colorless to faintly yellow				
	antibiotic activity spectrum :viruses				
	Mode of action :DNA synthesis interferes				
	storage temp-2-8°C				
303	Scalpel Blade	box	15	500.00	7,500.00
	☐Stainless steel				
	☐100 blades/box				
304	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.				
	<i>Description:</i>				
	<i>Straws are filled and sealed 6 by 6</i>				
	<i>Straw filling is done by vacuum and sealing by pressing a metal or glass sealing ball into the straw end</i>				
	<i>The glass sealing balls are available in different colors</i>				
	<i>An air bubble of 1 cm is automatically produced in each straw</i>				
	<i>Capacity: 2000 straws/hour</i>				
	<i>Specifications:</i>				
	<i>filling and suction heads for 6 straws</i>				
	<i>straw magazine</i>				
	<i>vacuum bottle</i>				
	<i>SFS Cartridge loading device with loading block and 10 cartridges for 36 straws each (0.5 mL straws)</i>				
	<i>Low density vacuum pump, 30-60 Hg, with manometer and adjustable valve 230 V/50 Hz</i>				
	<i>Support for semen cone</i>				
	<i>Silicone tubing for SFS- transparent, 3 x 1 mm, length 10 m</i>				
	<i>Filling head with 6 nozzles for 0.5</i>				
	<i>Suction head with 6 nozzles for 0.5</i>				
	<i>Washer for all filling and suction nozzles - 5000/bag</i>				
	<i>AVR included</i>				
	<i>Recommended source/specifications:</i>				
	<i>https://www.minitube.com/catalog/en/sfs-semiautomatic-filling-and-p1204/</i>				
	<i>Note to the TWG:</i>				
	<i>Power requirement is already indicated (230V)</i>				
305	Six Channel Temperature Data Logger	unit	1	50,000.00	50,000.00
	<i>Inputs: 4x thermocouple inputs for use with miniature thermocouple connectors, and 2 x spring clamp terminals for 2 or 3-wire RTDs, 28 to 16 AWG</i>				
	<i>Input Temperature Range:</i>				
	<i>Type J: -200 to 1200°C</i>				
	<i>Type K: -200 to 1372°C</i>				
	<i>Type T: -200 to 400°C</i>				
	<i>Type R: 0 to 1768°C</i>				
	<i>Type S: 0 to 1768°C</i>				
	<i>Type N: 0 to 1300°C</i>				
	<i>Type E: -200 to 1000°C</i>				
	<i>RTD: -200 to 850°C</i>				
	<i>Temperature Accuracy:</i>				
	<i>For Thermocouples: ±0.1% or 0.8°C</i>				
	<i>For RTD: ±1.0% or 1.0°C</i>				
	<i>Temperature Resolution: 0.1° for temperatures below 1000°C or °F, 1° for</i>				



	temperatures above 1000°C or °F				
	Display: 72 mm (2.83") resistive touch TFT, 320 x 240 pixels, backlit				
	Configurable Parameters: Temperature units, alarms, signal processing, date and time, data logging, power options, graph channels				
	Temperature Units: °F or °C				
	Alarm Configuration: 12 x alarms (2 per channel) with adjustable level, individually configurable as HI or LO				
	Signal Processing: Average, minimum, maximum, standard deviation, 2-channel temperature difference				
	Display Response Time: 1 second				
	Operating Temperature: 0 to 50°C (32 to 122°F)				
	Power Supplies: Built-in rechargeable battery, USB, or 5 Vdc adaptor (included)				
	Battery Life: 32 hour logging with full display brightness; up to 96 hours while logging in power saving mode				
	Weight: 200 g (7 oz) without thermocouples				
	Dimensions: 136 W x 71 H x 32 D mm (5.35 x 2.8 x 1.25")				
	Data Logging Specifications				
	Data Logging Interval: 1 to 86,400 seconds (1 day)				
	Maximum SD Card Capacity: 32 GB SD Card (4 GB included)				
	Variables Logged: Measured temperature, cold junction temperature, alarm events				
	File Format: .csv (can be imported to Excel)				
	Configurable Parameters: Sample period, number of samples, scheduled start date and time				
306	Sodium Cobaltrinitrite ACS Reagent	bot	1	3,000.00	3,000.00
	100grms/bottle;				
307	Sodium Sulfite ACS Reagent 500g	bot	1	2,600.00	2,600.00
	500g/bottle;				
308	Sorbitol (AR) 500g	pack	1	2,000.00	2,000.00
	■Sorbitol (AR)				
	■Chemical Formula: C6H14O				
	■Molecular Wt. 182.172 g/mol.				
309	Thidiazuron (TDZ) 25mg/pack	pack	1	32,500.00	32,500.00
	suitable for plant tissue culture				
310	DELETED ITEM 310 (transferred to IT)				
311	Ammonium Sulfate	kg	1	900.00	900.00
	good quality;				
312	Mechanical Pipettor, Adjustable Volume, 0.1-2ul	pcs	2	5,000.00	10,000.00
	Mechanical Pipettor				
	0.1-2ul				
	Adjustable Volume				



	Single-channel				
	Non-autoclavable				
313	Mechanical Pipettor, Adjustable Volume, 10-100ul	pc	1	5,000.00	5,000.00
	Mechanical Pipettor				
	10-100ul				
	Adjustable Volume				
	Single-channel				
	Non-autoclavable				
314	Mechanical Pipettor, Adjustable Volume, 100-1000ul	pc	1	5,000.00	5,000.00
	Mechanical Pipettor				
	100-1000ul				
	Adjustable Volume				
	Single-channel				
	Non-autoclavable				
315	Mechanical Pipettor, Adjustable Volume, 2-10ul	pc	2	5,000.00	10,000.00
	Mechanical Pipettor				
	2-10ul				
	Adjustable Volume				
	Single-channel				
	Non-autoclavable				
316	Pipettor Tip Box, 1000ul, Autoclavable Plastic, 96 holes	pc	2	700.00	1,400.00
	Pipettor Tip Box				
	for 1000ul				
	Autoclavable Plastic				
	96 holes				
317	Pipettor Tip Box, 100ul, Autoclavable Plastic, 96 holes	pc	2	500.00	1,000.00
	Pipettor Tip Box				
	for 100ul				
	Autoclavable Plastic				
	96 holes				
318	Pipettor Tip Box, 10ul, Autoclavable Plastic, 96 holes	pc	2	500.00	1,000.00
	Autoclavable Plastic				
	for 10ul Pipettor Box				
	96 holes				
				TOTAL:	5,418,193.28

DILBERTO O. FERRAREN
BAC Chairman