



BID BULLETIN 01

Date: 26 September 2023

Project Title: *Supply and Delivery of Laboratory Equipment, Supplies, and Chemicals (VSU-GOODS-23-40)*

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 2,362,344.50)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 2,362,344.50 and the largest of which should be at least PHP 1,181,172.25 .
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 and Chemicals)
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 4,724,689.00)
	Or
	Committed Line of Credit (at least Php 472,468.90)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

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

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

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

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

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

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

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
3. Statement of Bidder's Single Largest Completed Contract	SLCC
4. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
5. Bid Security	Bid Security
6. Technical Specifications	Technical Specifications
7. SCHEDULE of Requirements/ 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 **Mr. Leopoldo S. Escala Jr** at leopoldo.escala@vsu.edu.ph on or 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>15 September – 04 October 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 Five Thousand Pesos (Php 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p><i>(Amendment)</i></p> <p>A complete set of Bidding Documents may be acquired by interested Bidders on <i>15 September – 04 October 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" style="width: 100%; text-align: center;"> <thead> <tr> <th>Total ABC Quoted</th> <th>Applicable Fee</th> </tr> </thead> <tbody> <tr> <td>500,000.00 and below</td> <td>500.00</td> </tr> <tr> <td>Above 500,000.00 up to 1,000,000.00</td> <td>1,000.00</td> </tr> <tr> <td>Above 1,000,000.00</td> <td>5,000.00</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 style="padding-left: 40px;">Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u></p> <p>Then send the deposit slip to leopoldo.escala@vsu.edu.ph</p>	Total ABC Quoted	Applicable Fee	500,000.00 and below	500.00	Above 500,000.00 up to 1,000,000.00	1,000.00	Above 1,000,000.00	5,000.00
Total ABC Quoted	Applicable Fee								
500,000.00 and below	500.00								
Above 500,000.00 up to 1,000,000.00	1,000.00								
Above 1,000,000.00	5,000.00								



<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 #	Description	Unit	Qty	Unit Price	Total Price
1	0.5-10 μL pipette tips (white)	pack	1	1,000.00	1,000.00
	<i>0.5-10 μL pipette tips (white) at least 1000 pcs/pack</i>				
2	100 ml Type 1, class A borosilicate glass Beaker	pc	30	500.00	15,000.00
3	1000 μL pipette tips (Blue)	pack	1	1,300.00	1,300.00
	<i>1000 μL pipette tips (Blue) at least 1000 pcs/pack;</i>				
4	1000mL Beaker Plastic	pc	2	400.00	800.00
	<i>The polypropylene beaker has excellent transparency and the contents can be seen well.</i>				
	<i>Can be autoclaved.</i>				
	<i>Has excellent chemical resistance and durability</i>				
	<i>Specification: With scale, with handle</i>				
	<i>Material: Polypropylene (PP)</i>				
	<i>Type: Beaker with handle</i>				
	<i>Scale: Yes</i>				
	<i>Heat Resistance Temperature ($^{\circ}$C): 120</i>				
	<i>Handle: Yes</i>				
5	125 ml Erlenmeyer flask	pc	24	500.00	12,000.00
	<i>70980-125- 125 ml Erlenmeyer flask;</i>				
6	2.4-Dichlorophenoxyacetic acid, 250grams/btl	btl	1	4,500.00	4,500.00
	<i>2.4-Dichlorophenoxyacetic acid plant growth regulator</i>				
	<i>2,4-D used for</i>				
	<i>Plant tissue culture</i>				
7	200 μL pipette tips (Yellow)	pack	2	700.00	1,400.00
	<i>200 μL pipette tips (Yellow) at least 1000 pcs. per pack</i>				
8	250 mm glass stirring rod	pc	3	125.00	375.00
9	3 layer Non-woven surgical face mask, at least 50 pcs. per box	box	5	200.00	1,000.00



10	30 ml Rubber Aspirator suction	pc	3	300.00	900.00
11	50 ml Type 1, class A borosilicate glass Beaker	pc	10	400.00	4,000.00
12	Activated Charcoal suitable for plant cell and tissue culture (500g)/pack	pack	1	2,500.00	2,500.00
13	Agar for plant cell and tissue culture	btl	1	7,500.00	7,500.00
	500grms/btl				
14	Alcohol, Ethyl, 95% (Tech)	gal	1	1,500.00	1,500.00
15	Ammonium Acetate, AR, 500g	pack	2	1,800.00	3,600.00
16	Ammonium Flouride	btl	1	1,000.00	1,000.00
	☐White crystalline				
	☐ACS reagent, ≥98.0%				
	☐500g/btl				
17	Ammonium Nitrate	pack	2	8,000.00	16,000.00
	☐AR grade; at least 98% purity				
	☐Molecular Wt. 80.043 grams per mol.				
	☐1kg/pack				
18	Ammonium Sulfate, 500g/btl.	btl	2	650.00	1,300.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
19	Ascorbic acid	btl	2	1,800.00	3,600.00
	☐Analytical reagent grade, crystalline powder, 25 g/bottle				
20	Beaker	pc	2	600.00	1,200.00
	Beaker Plastic 5000mL				
	The polypropylene beaker has excellent transparency and the contents can be seen well.				
	Can be autoclaved.				
	Has excellent chemical resistance and durability.				
	Specification: With scale, with handle				
	Material: Polypropylene (PP)				
	Type: Beaker with handle				
	Scale: Yes				
	Heat Resistance Temperature (°C): 120				
	Handle: Yes				
	Good quality				
21	Boric acid, AR	btl	1	2,000.00	2,000.00
	Certified molecular biology grade				
	Suitable for electrophoresis, ≥99.5%				
	Size: 500g per bottle				
22	Buffer solution, pH 7, 1000 ml.	btl	2	1,200.00	2,400.00
23	Cadmium Nitrate Standard for the AAS, 500cc/btl	btl	1	4,000.00	4,000.00



24	Calcium Chloride Dihydrate	btl	2	2,000.00	4,000.00
	☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards				
	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
	☐500g				
25	Calcium Nitrate standard for Tissue Culture, Analytical reagent	btl	3	3,100.00	9,300.00
26	Cesium Chloride	btl	1	2,000.00	2,000.00
	CAS: 7647-17-8				
	Form: Colourless or white deliquescent crystals or powder or beads or chunk				
	Pack Size: 25g/btl				
	Packaging Type: glass bottle				
	Grade: AR quality				
27	Cobalt chloride (CoCl₂, 6H₂O) suitable for plant cell and tissue culture	btl	1	1,600.00	1,600.00
	☐Molecular weight: 249.6				
	☐500g/btl				
28	Compound Binocular Microscope	pc	5	32,000.00	160,000.00
	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				
29	Copper sulfate, CuSO₄	btl	1	1,800.00	1,800.00
	☐Anhydrous, Analytical reagent grade, 500g/bottle				
30	Dial Instant-Read Kitchen Thermometer (Bimetal)	unit	1	1,000.00	1,000.00
	Reads in 15-20 seconds				
	Place 2 - 2 1/2 deep in the thickest part of food				
	Can be used in roasts, casseroles, and soups				
	Temperature is averaged along probe, from tip to 2-3"				



	up the stem				
	Cannot measure thin foods unless inserted sideways				
	Not designed to remain in food while it is cooking				
	Use to check the internal temperature of a food at the end of cooking time				
	Can be calibrated				
31	Dimethyl sulfoxide (DMSO), MBG	btl	1	6,450.00	6,450.00
	☐Molecular Biology Grade (MBG) DMSO				
	☐Suitable for Molecular Applications				
	☐Nuclease-Free DMSO				
	☐DNase-Free, RNase-Free, Protease-Free, Phosphatase-Free				
	☐Bottle of at least 500mL				
32	DTPA (Diethylenetriaminepentacetic acid), AR, 250g./btl.	btl	1	8,000.00	8,000.00
33	Electric Compound Binocular Microscope (4)	unit	3	55,000.00	165,000.00
	☐Objective Lenses: DIN standard Achromat 4x, 10x, 40xR, 100xR oil immersion objectives are parfocalled, parcentered, color coded and mounted in reverse facing quadruple;				
	☐Eyepieces: Wide field 10x eyepieces, FN18. Interpupillary adjustment 55-75mm. Eyepiece can be fitted with a 20mm diameter reticle				
	☐Total Magnification: 40x, 100x, 400x, 1000x				
	☐Specimen Stage: Large 125mm x 115mm stage, with built-in mechanical stage. Mechanical stage provides X-Y movement of 55mm x 75mm				
	☐Focusing: Rack and pinion coarse focus with tension adjustment, separate fine focus. Coarse focus knob control moves the stage up or down 20mm. Fine focus moves 0.2mm per				
	☐Condenser: Abbe NA 1.25 condenser with iris diaphragm and filter holder for 32mm filter				
	☐Illumination: 1W LED illumination with on/off switch with intensity control. Corded microscope is voltage sensing 100~240V				
	☐Warranty: 5-year warranty, excluding LED bulb				
	☐Includes: Dust cover and blue filter				
34	ELECTRONIC THEODOLITE	set	2	45,250.00	90,500.00
	SPECIFICATIONS				
	Angle Measurement				
	- Measuring Method: Absolute Encoding				
	- Diameter of Encoder Disk: 79mm				
	- Minimum Reading: 1"				
	- Accuracy: 2"				
	- Detection Method: Horizontal -Dual, Vertical-Dual				
	Telescope				



	- Image: Erect				
	- Magnification: 26.5x				
	- Effective Aperture: 40mm				
	- Resolving Power: 3"				
	- Field of View: 1°30'				
	- Minimum Focus Range: 1.5m				
	Multiple Constant: 100				
	- Additive Constant: 0				
	- Tube Length: 155mm				
	Laser				
	- Wavelength: 635±20nm				
	-Laser Class: Class II				
	-Diameter: <4cm/1000m				
	- Tolerance: <10"				
	Compensator				
	- Type: Single Axis				
	- Working Range: ±3'				
	- Accuracy: ±3"				
	Bubble				
	- Plate Bubble: 30"/2mm				
	- Circular Bubble: 8'/2mm				
	Display Unit				
	- Type: 2.7 Inch LCD screen				
	Power Supply				
	- Battery: 7.4V, Lithium battery, 8 hrs				
	Working Environment				
	- Weight: 4.7kg				
	Dimension				
	- Size: 165*160*340mm				
	- Range: -20 °C~ +50 °C				
35	Essential Line Analytical Balance	unit	1	175,000.00	175,000.00
	Features:				
	Adjustment: External Anti-Theft Locking Device: Kensington Lock, lockdown capability for cable or chain Display: LED screen with touch technology Languages: English, German, France, Italian, Spanish, Portuguese, Russian, Polish Leveling: Manual Readability: 0.1 mg Repeatability: 0.1 mg Typical Stabilization Time: <=1.5 s Underfloor Weighing: Yes				
	Operating Conditions				
	Maximum Weighing Capacity: 220 g Operating Conditions - Temperature: +10 – +30 °C Power Requirements				
	Power Requirements: 100 – 240 VAC, ±10%, 50 – 60				



	Hz, 0.2 A				
	Power Requirements (Secondary): 15 VDC, $\pm 5\%$, 0.53 A				
	Packaging: 400 × 525 × 495 mm				
	General Specifications Draft Shield: Manual Linearity: 0.2 mg Sensitivity Drift between +10 °C and +30 °C: ± 1.5 ppm/K Weighing Units: Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China tael, mommes, Austrian carat, tola, baht, mesghal and Newton Gross Weight: 7.7 kg Net Weight, approximate: 6.2 kg				
36	Ethylenediaminetetraacetic acid disodium salt (Na₂-EDTA) suitable for plant cell and tissue culture	btl	1	1,500.00	1,500.00
	500 grams/btl				
37	Ferrous Sulphate	btl	1	1,500.00	1,500.00
	☐Analytical Grade				
	☐500grams/btl				
38	Gloves, Nitrile, Large	box	4	1,500.00	6,000.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: large				
39	Glycine	btl	1	7,400.00	7,400.00
	☐Molecular biology, $\geq 99.0\%$ assay quality				
	☐Suitable for protein analysis, SDS-PAGE and Western blot				
	☐DNases and Rnases free				
	☐Phosphatases and proteases free				
	☐Crystalline form				
	☐Bottle of at least 500g				
40	good quality Scalpel Handle #3	pc	2	500.00	1,000.00
	stainless steel scalpel handle is used with scalpel blade # 11				
	It has a curved cutting edge and a flat, notched back for a more secure hold				
	It is used for plant tissue culture				
	Good quality				
41	Holder scalpel # 4	pc	2	500.00	1,000.00
	stainless steel scalpel handle is used with scalpel blade # 22				
	It has a curved cutting edge and a flat, notched back for a more secure hold				
	It is used for plant tissue culture				
	Good quality				



42	Hydrochloric acid, HCl	btl	1	1,000.00	1,000.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>				
43	Indoleacetic acid (IAA) suitable for plant cell and tissue culture (5g)	btl	1	3,500.00	3,500.00
44	indolebutyric acid (IBA)	btl	1	3,500.00	3,500.00
	<i>Suitable for plant tissue culture 5 gms/btl</i>				
45	Kinetin, 5grms/btl	btl	1	3,500.00	3,500.00
	<i>Kinetin is often used in plant tissue culture for inducing formation of callus (in conjunction with auxin) and to regenerate shoot tissues from callus (with lower auxin concentration).</i>				
46	Kjelcat Tablets	btl	1	36,575.00	36,575.00
	<i>KJELCAT-tablets, tin of 1000 pcs</i>				
	<i>5g K₂SO₄ + .5g CuSO₄ x 5H₂O</i>				
47	Magnesium Sulphate (MgSO₄.7H₂O) suitable for plant cell and tissue culture	btl	3	1,200.00	3,600.00
	<i>Wt. 169.01</i>				
	<i>Colourless efflorescent crystals</i>				
	<i>500 grams</i>				
48	Magnetic Bar Set	set	1	4,000.00	4,000.00
	<i>7pcs of Mixed size PTFE Magnetic Stirrer Mixer</i>				
	<i>Stir Bars White Color Without Pivot Ring</i>				
	<i>Shape: Cylinder without Pivot Ring</i>				
	<i>Feature: corrosion resistance</i>				
	<i>Quantity: 7 pcs</i>				
	<i>Size: 7pcs of Mixed</i>				
	<i>size :C5*15mm C6*20mm C6*25mm C7*25mm</i>				
	<i>C9*30mm C8*35mm C7*40mm</i>				
49	Manganese sulfate (MnSO₄, H₂O) suitable for plant cell and tissue culture	btl	1	1,200.00	1,200.00
	<i>500 grams</i>				
50	Molybdic acid (sodium salt) (Na₂MoO₄, 2H₂O) suitable for plant cell and tissue culture	btl	1	2,200.00	2,200.00
	<i>500grams, AR;</i>				
51	Multiparameter pH/ORP/EC/TDS/Salinity/DO/ Pressure/Temperature Waterproof Meter	unit	1	150,000.00	150,000.00
	<i>A waterproof portable logging multiparameter meter that monitors up to 12 different water quality parameters.</i>				
	<i>Multi-sensors probe allows for the measurement of key parameters including pH, ORP, conductivity, dissolved oxygen, and temperature.</i>				
	<i>The probe transmits readings digitally to the meter, where data points can be displayed and logged.</i>				
	<i>The complete system is simple setup.</i>				
	<i>Backlit graphic LCD Display- features a backlit graphic LCD with on-screen help and the capability to display up to twelve parameters simultaneously.</i>				



<p><i>The graphic display allows for the use of virtual keys to provide for an intuitive user interface</i></p>				
<p><i>Waterproof protection-the meter is enclosed in an IP67rated waterproof casing and can withstand immersion in water at a depth of 1m for up to 30 minutes. The probe features an IP68 rating for continuous immersion in water</i></p>				
<p><i>Quick Connect digital Probe-The probe features a quick connect DIN connector that makes a waterproof connection with the meter.</i></p>				
<p><i>Color Coded, Field Replaceable sensors-sensor replacement is quick and easy with field replaceable, screw-type connectors that are color-coded for easy sensor port identification</i></p>				
<p><i>Auto-sensor recognition- The probe and meter automatically recognize the sensors that are connected. Any ports not used on the probe will not have the parameter displayed or be configurable</i></p>				
<p><i>Automatic temperature compensation-Integrated temperature sensor allows for automatic temperature compensation of pH, conductivity and dissolved oxygen measurements</i></p>				
<p><i>Automatic Barometric pressure compensation-The meter features a built-in barometer with user selectable units for dissolved oxygen pressure compensation</i></p>				
<p><i>Standard or quick calibration-Quick calibration provides a speedy, single-point calibration for pH, conductivity, and dissolved oxygen. Standard pH calibration options are available for calibrating up to three points from a selection of five standard buffers and one custom buffer. Conductivity calibration is a single point from six standard selections or one custom standard. Dissolved oxygen calibration is up to two standard points or a single custom point</i></p>				
<p><i>GLP Data- includes a GLP feature that allows users to view calibration data and expiration information at the touch of a key. Calibration data includes date, time, buffers/standards used for calibration, and slope characteristics</i></p>				
<p><i>Data Logging-Allows users to store up to 45,000 continuous log-on demand samples with logging intervals from one second to three hours</i></p>				
<p><i>Intuitive Keypad-The fitted rubber keypad has dedicated keys for power, backlight, up/down arrows, help and alphanumeric characters. The meter also features two virtual soft keys that navigate the user through the configuration of each parameter, meter setup, and logging of data. The interface is intuitive for any user's level of experience.</i></p>				
<p><i>Dedicated help key- Contextual help is always available through a dedicated "HELP" key. Clear tutorial messages and directions are available on-screen to quickly guide users through setup and calibration. The help information displayed is relative to the setting/option being viewed.</i></p>				



	PC Connectivity- Logged data can be transferred to the Window's compatible PC with the included micro USB cable and software				
	Long Battery Life- The display of the meter has a battery icon indicator to show the remaining power. The meter uses four 1.5V AA batteries that provide up to 360 hours of battery life				
	Rugged Thermoformed Carrying case- The meter, probe and all accessories are supplied in a rugged carrying case designed to provide years of use. The inside compartment of the carrying case is thermoformed to securely hold and protect all of the components.				
52	Myo-inositol suitable for plant cell and tissue culture (100gms)	btl	1	4,000.00	4,000.00
53	Naphthaleneacetic Acid, 5g	btl	1	3,400.00	3,400.00
	☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards				
	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
54	Nicotinic acid suitable for plant cell and tissue culture (100g)	btl	1	3,000.00	3,000.00
55	NYLON/PE (Vacuum Sealable Plastic)	pc	10000	7.00	70,000.00
	Material specification = NYLON/PE (Vacuum Sealable Plastic)				
	Thickness (microns) +/- 5% = 80				
	Variant = Flat pouch - back seal (w/o zip)				
	Size = 20*23 cm				
	No. of colors = 4				
56	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft	roll	1	2,800.00	2,800.00
57	Pasteur pipette	pc	50	20.00	1,000.00
	Specifications				
	230mm Overall Length, 108mm Tip Length, 120 mm Body Length,				
	Type 1 Clear Glass				
	Non-sterile				
	Max dispensing volume : 2mL				
	No graduations				
58	pH 4 Buffer	btl	1	1,200.00	1,200.00
	Laboratory gradeSize: 1L per bottle				
59	Pipettor Tip Box	pc	2	500.00	1,000.00
	Pipette Pipettor Tip Box, 200UL, 96holes;				



60	Plastic Graduated Cylinder	pc	2	300.00	600.00
	Capacity : 50ml				
	Material : Plastic				
	Color : Translucent				
	Shape : Cylindrical				
	Tolerance : 1ml				
	Graduated in milliliters : 1ml				
61	PLN 100x Objective Lens and Fluorescent Microspheres	lot	1	200,000.00	200,000.00
	1. PLN 100x Objective Lens				
	compatible with Euromex OX.2453-PLPHF				
	Compatible Cover Glass Thickness (mm): N/A				
	Field of View (mm): 0.22				
	Focal Length FL (mm): 1.8				
	Model Number: 1-U2B235-delete				
	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 (μm): 0.27				
	Depth of Field (μm): 0.27				
	Field Number (mm): 22				
	Parfocal Length (mm): 45				
	Style: Infinity Corrected				
	Manufacturer: Olympus-delete				
	Immersion Liquid: Oil				
	Depth of Focus (μm): 1760				
	2. Fluorescent microspheres (Catalog Code.: FS03F)- 1 pc				
	Diameter= 0.50 μm				
	Volume= 5 ml				
	~1% solids (w/v) aqueous suspensions				
	Blue Excitation= 465- 495 nm				
	Fluorescence color- Dragon Green (480 nm, 520 nm)				
	3. Fluorescent Polystyrene Beads (Catalog No.: 2104)- 2 pcs.= PhP 46, 394.16				
	Diameter= 1.0 μm				



	Volume= 1 ml				
	Blue Excitation= 465- 495 nm				
	Particle density- 1.06 g/cm ³				
	Fluorescence color- Green (450 nm, 510 nm)				
62	Potassium iodide, KI	btl	2	5,000.00	10,000.00
	☐Analytical reagent grade, powder, 500g/bottle				
63	Potassium Nitrate	pack	2	5,800.00	11,600.00
	☐AR grade				
	☐Formula: KNO ₃				
	☐Molar wt: 101.1032 g/mo				
	☐1kg/pack				
64	Potassium phosphate monobasic, KH₂PO₄	btl	3	1,450.00	4,350.00
	Analytical grade				
	Use for enzyme buffers and chemical assays				
	Bottle of 500g				
65	Pyridoxine.HCl suitable for plant cell and tissue culture(25g)	btl	1	4,900.00	4,900.00
66	Quartz Crucible	pc	1	15,000.00	15,000.00
	To use this crucible "C 5010.5 Crucible pan, big" is required.				
	Allows to fill in a higher amount of material with a low calorific value				
	Especially for samples with a high ash content 22mm (inner diameter) x 18 mm (absolute height)				
67	Retriever	pc	2	650.00	1,300.00
	Magnetic stir bar retriever				
	used reach stir bars in deep/ big container PTFE coated & steel core, magnetic retrieve recover bar Science lab experiment equipment, recover stirring bars from containers easily Coated in white PTFE corrosion resistance, acid & alkali resistance, high temperature resistance Multipurpose - Stir a liquid or solution in biological, chemical, and research laboratory applications				
	Size : Length 250 mm				
	Material : Steel & PTFE (Polytetrafluoroethylene)				
	Color: White				
68	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).				
69	Sodium Hexametaphosphate, 500g	btl	2	800.00	1,600.00
70	Sodium Hydroxide, AR 500G	btl	3	1,200.00	3,600.00
	☐500 g/bottle, AR, Pellets;				
71	Stainless Steel Milk Canister, 20L capacity	unit	20	8,000.00	160,000.00
	Stainless steel dairy equipment				
	Have side handles				
	Umbrella shaped lid				
	20 litre: 20cm neck, 45cm high				
72	Stainless Steel Milk Pail, 10Liter Capacity	unit	50	7,500.00	375,000.00
	Stainless Steel				
	Volume :10 L				
	Diameter: 30 cm				
	Weight: 1.25 kg				
	Height: 27.2 cm				
73	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				
74	Surgical Blade # 11 (100's)	pack	1	1,000.00	1,000.00
	• Carbon steel				
	• Stainless steel				
	• Individually packed on sterile pouches				
	• Disposable ✓Sold per box (100's)				
	Good Quality				
75	Surgical Blade # 22 (100's)	pack	1	1,000.00	1,000.00
	• Carbon steel				
	• Stainless steel				
	• Individually packed on sterile pouches				
	• Disposable ✓Sold per box (100's)				
	Good quality				
76	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	pc	5	800.00	4,000.00
	☐Stainless steel;				
77	Test Tube Rack, 20 mm x 24 tubes	pc	3	800.00	5,000.00
	☐Stainless Steel, 20 mm diameter holes, capacity 24				



	test tubes				
78	Thiamine.HCl suitable for plant cell and tissue culture (25gms)	btl	1	4,900.00	4,900.00
79	Thumb Tissue Forcep for Dissection	pc	2	700.00	1,400.00
	Features:				
	<i>Stainless Steel Matte Finish Autoclavable Available in Serrated or 1x2</i>				
	<i>teeth: 8 inches long</i>				
	<i>Thumb Tissue Forcep are used to grasp, hold, and manipulate tissue during surgical procedures. Surgical Thumb Tissue Forceps feature two blades designed to grasp tissue and come in a variety of handle styles, lengths, and jaw patterns.</i>				
80	Triethanolamine, AR	liter	1	3,000.00	3,000.00
81	Tween 80, 500ml/bot	btl	1	3,500.00	3,500.00
	<i>Tween 80 (polysorbate 80, polyoxyethylene sorbitan monooleate) is</i>				
	<i>non-ionic surfactant used for plant tissue culture.</i>				
82	Volumetric Flask 100ml	pc	5	1,000.00	5,000.00
	☐100 mL (±0.01 mL)				
	☐Borosilicate glass with glass standard taper stopper,				
	☐Class A				
	☐Calibrated				
83	Volumetric Flask 50ml	pc	5	700.00	3,500.00
	☐50mL, (±1mL)				
	☐Borosilicate glass with glass standard taper stopper,				
	☐Class A				
	☐Calibrated				
84	Vortex Mixer	pc	1	12,000.00	1,800.00
	<i>S-0200- VX-200 Vortex Mixer;</i>				
85	Wash Bottle, 250mL cap.	pc	9	200.00	1,800.00
	☐Material: Plastic (good quality);				
86	Weighing Scale Flat, 50 kg	unit	10	6,000.00	60,000.00
87	Zinc sulfate (ZnSO₄, 7H₂O) suitable for plant cell and tissue culture	btl	1	3,200.00	3,200.00
	☐molecular weight: 287.54				
	☐500grams				
88	Graduated Cylinder, Plastic, 1000mL	pc	2	400.00	800.00
	<i>Plastic, 1000ml (1L) capacity for Particle Size Analysis</i>				
89	Mini Light Meter	pc	2	2,000.00	4,000.00
	<i>200,000 LUX Digital Luxmeter Luminance Lux Fc Test</i>				
	<i>Max-Min Illuminometers</i>				
	<i>Illuminance Measurement: 0 to 199,900</i>				
	<i>Lux 0 to 18,500 Fc</i>				



	Battery: 3x 1.5V (AAA)				
	Power: 0.45W				
	Handheld				
	Data Hold				
	LCD Backlight				
	Auto power off				
	Overload and low battery indicator				
90	Infrared Loop sterilizer	L	2	6,500.00	13,000.00
	<i>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</i>				
91	Portable pH Meter with Temperature probe	pc	1	14,000.00	14,000.00
92	Microscope Cleaning Kit	set	1	2,500.00	2,500.00
	5-piece set:				
	-blower brush				
	-lens cleaning fluid				
	-lint-free lens paper				
	-soft lens cloth				
	- lint-free cleaning swabs				
93	Soil Tension Meter	unit	1	17,000.00	17,000.00
	Unit: Kgf , gf , N , Lbf				
	Measuring Principle: Strain gauge				
	Measuring Frequency: 16 msec (62.5 samples / sec)				
	Sensing Roller: Deflection of Sensing Roller (max.) 0.2 mm				
	Overload Capacity: 150 % of Full Scale				
	Temperature Coefficient: Zero : less than $\pm 0.3\%$ FS/ $^{\circ}\text{C}$, Span : less than $\pm 0.01\%$ FS/ $^{\circ}\text{C}$				
	Display: Blue Back light LCD				
	Display Update Rate: 0.5 , 1.0 , 2.0 or 4.0 seconds , selectable				
	Memory System: Current Value , Max. Value , Peak Value , Min Value				
	Overrange Indicator: Buzzer Alarm				
	Power Off: 10 Minutes Auto , Manual				
	Data Output: USB , B (Optional)				
	Roller Material: Stainless Steel (Standard) , Plastic (Optional)				
	Maximum Speed: 2000 m/min				
	Power Supply: 4 x 1.5 AAA(UM-4) Battery				
	Operation Temperature: 0 ~ 40 $^{\circ}\text{C}$				
	Operation Humidity: < 80 %				
	Weight: 400 g				



	Size: Main Unit : 149 x 70 x 30 mm, Sensor : 102 x 81 x 34 mm				
	Essential details				
	Type: tension meter				
	Measuring Principle: Strain gauge				
	Measuring Range: 2K-50K				
	Measuring Frequency: 16 msec (62.5 samples / sec)				
	Sensing Roller: Deflection of Sensing Roller (max.) 0.2 mm				
	Model: LTTS-200, LTTS-500, LTTS-1K, LTTS-2K, LTTS-5K, LTTS-10K, LTTS-20K, LTTS-50K				
	Tension Range: 0~0.2kgf, 0~0.5kgf, 0~1.0kgf, 0~2.0kgf, 0~5.0kgf, 0~10.0kgf, 0~20.0kgf, 0~50.0kgf				
	0~200gf, 0~500gf, 0~1000gf, 0~2000gf, 0~5000gf				
	0~1.96N, 0~4.9N, 0~9.8N, 0~19.6N, 0~49N, 0~98N, 0~196N, 0~490N				
	0~0.44Lbf, 0~1.1Lbf, 0~2.2Lbf, 0~4.4Lbf, 0~11Lbf, 0~22Lbf, 0~44Lbf, 0~110Lbf				
	Resolution: 0.001kgf, 0.001kgf, 0.001kgf, 0.001kgf, 0.01kgf, 0.01kgf, 0.01kgf, 0.01kgf				
	1gf, 1gf, 1gf, 1gf, 1gf				
	0.001N, 0.001N, 0.001N, 0.01N, 0.01N, 0.01N, 0.01N, 0.01N				
	0.001Lbf, 0.001Lbf, 0.001Lbf, 0.001Lbf, 0.01Lbf, 0.1Lbf, 0.1Lbf, 0.1Lbf				
	Accuracy: ±1.0% or better, ±1.5% or better				
94	Colchicine suitable for plant cell and tissue culture (1g)	btl	1	15,000.00	15,000.00
95	Paraffin Wax	bag	1	4,000.00	4,000.00
	Form: pellets, white				
	Ign residue: ≤0.05%				
	Melting point: 43-95 degrees celsius				
	Solidification point: 54-56 degree celcius 1kg per bag				
96	Fluorescent Polystyrene Beads (Catalog No.: 2104)	pc	2	50,000.00	100,000.00
	Specifications:				
	Diameter= 1.0 um				
	Volume= 1 ml				
	Blue Excitation= 465- 495 nm				
	Particle density- 1.06 g/cm ³				
	Fluorescence color- Green (450 nm, 510 nm)				
	Em				
97	DIVE BOOTIES	pc	4	1,000.00	4,000.00
	HI CUT WITH LOCK AFTER ZIPPER				
	CRESS HIT CUT SIZES 7 (2 PAIRS)				
	SIZE 8 (2 PAIRS)				
98	Cadmium(Cd), Uncoded hollow cathode	pc	1	30,500.00	30,500.00



	<i>Cadmium(Cd), Uncoded hollow cathode lamp for Agilent AAS 200.</i>				
99	Compost certified reference material	btl	1	26,000.00	26,000.00
	<i>certified /Matrix reference Material for Compost</i>				
	<i>AgroMAT CP-1 Standard Compost (100g)</i>				
	<i>Cat No. 140-025-111</i>				
	<i>Supplier: SCP Science Canada</i>				
100	Filter Cartridge for water purification system	pc	1	80,000.00	80,000.00
	<i>Filter cartridge for Thermo-Fischer Scientific water purification system</i>				
	<i>Cat No. 09.2005</i>				
101	Iron(Fe) hollow cathode lamp	pc	1	30,500.00	30,500.00
	<i>Iron (Fe) hollow cathode, Uncoded for Agilent AAS 200.</i>				
102	Lead(Pb), hollow cathode lamp	pc	1	33,500.00	33,500.00
	<i>Lead (Pb), Uncoded Lamp for Agilent AAS 220.</i>				
103	Magnesium (Mg), Hollow cathode lamp	pc	1	37,800.00	37,800.00
	<i>Magnesium (Mg), Uncoded hollow cathode lamp for Agilent AAS 200.</i>				
104	Manganese (Mn, Uncoded hollow cathode lamp	pc	1	36,000.00	36,000.00
	<i>Manganese(Mn), Uncoded Hollow cathode lamp for Agilent AAS 200.</i>				
105	Nickel(Ni), Hollow cathode lamp	pc	1	36,000.00	36,000.00
	<i>Nickel(Ni), Uncoded hollow cathode lamp</i>				
106	Plant tissue certified reference material	btl	1	58,000.00	58,000.00
	<i>certified reference material for plant tissue</i>				
	<i>Hay Powder (30 g), BCR- 129</i>				
	<i>Supplier : Euopian Commission</i>				
107	Sodium (Na), Hollow cathode lamp	pc	1	36,000.00	36,000.00
	<i>Sodium (Na), Uncoded hollow cathode lamp for Agilent AAS 200.</i>				
108	Standard certified reference material for Sandy Soil	btl	1	26,000.00	26,000.00
	<i>Certified Matrix Reference Material for Sandy Soil</i>				
	<i>AgroMAT Ag-1 Standard Sandy Soil 175 g</i>				
	<i>Cat. No. 140-025-101</i>				
	<i>Supplier: SCP Science Canada</i>				
109	variable mechanical pipettor, 1-5 mL	pc	1	15,000.00	15,000.00
	<i>variable mechanical pipettor, , 0.5 -5 ml, good quality, standard tips</i>				
110	Plain Polystyrene Microspheres Cat. No.: 112	btl	1	50,000.00	50,000.00
	<i>Plain Polystyrene Microspheres (1µm)</i>				
	<i>Product description and Characteristics:</i>				
	<i>Catalog No: 112</i>				
	<i>Lot Number: 107132B</i>				
	<i>Polymer: Polystyrene</i>				



	Color: None				
	Target Mean Diameter : 1 μ m				
	Actual Mean Diameter: 0.953 μ m				
	Standard diameter: 0.195 μ m				
	Number of Spheres (per mL): 2.10E+10				
	Anti-microbial agent: 2mM NaN ₃				
	Media: 0.1% Tween 20 in DI Water				
	Solid content: 1%				
	Storage: 2-8 °C				
111	Veterinary Endoscope	set	1	150,000.00	150,000.00
	Insertion tube: Charge-coupled device (CCD) chip (video-endoscope); Biopsy/suction channel; Irrigation/insufflation channel; Deflection control cables				
	Handpiece: Deflection control knobs; Accessory channel entrance; Irrigation/insufflation; Suction valves				
112	Antimicrobial Susceptibility Test Discs, Amoxicillin 20μg Clavulanic Acid 10μg, 50discs/pack	pack	2	500.00	1,000.00
113	Antimicrobial Susceptibility Test Discs, Gentamicin 10mcg, 100discs/pack	pack	3	500.00	1,500.00
114	Apron	pc	1	3,500.00	3,500.00
	☑Heavy Duty Industrial Chemical Laboratory Apron				
	☑Material: Neoprene				
	☑Color : Black				
	☑Chemical Resistant (Suitable protection against wide range of chemicals)				
	☑Light weight				
	☑Sizes : at least 35" X 43"				
115	Autoclave Tape	pc	1	450.00	450.00
	☑turns black at 250°F,				
	☑width - ¾ inch				
	☑length- minimum of 60 yards				
116	Brush Suitable for 100mL Graduated	pc	2	200.00	400.00
	☑Bristle Material: Black Nylon				
	☑Suitable for 100mL Graduated Cylinders				
117	Burette Brush	pc	1	150.00	150.00
	☑big size for 50 mL burette				
118	Canada Balsam, for microscopy, 100ml	btl	2	1,800.00	3,600.00
119	Digital Weighing Scale, 50kg	set	1	5,000.00	5,000.00
	☑1g accuracy				
	☑maximum of 50 kg				
	☑materials: metal				
120	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl	btl	1	3,000.00	3,000.00
	Analytical Reagent, 500g/btl				



121	Garbage bag green (large) 10pcs/roll (pk of 10)	roll	2	276.00	552.00
122	Garbage bag green (medium) 25 pcs/roll (pk of 10)	roll	2	145.00	290.00
123	Giemsa stain set	btl	1	2,826.00	2,826.00
	<i>Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml</i>				
124	Lab Gown Long Sleeves L	pc	1	500.00	500.00
	☐ Lab Coat High-quality White				
	☐ Size- Large; long sleeves				
125	Lab Gown Long Sleeves M	pc	1	500.00	500.00
	☐ Lab Coat High-quality White				
	☐ Long Sleeves				
	☐ Medium size				
126	Laboratory Safety Goggles	unit	1	1,500.00	1,500.00
	<i>Chemical and heat resistant</i>				
	<i>Anti-fog clear polycarbonate lens</i>				
	<i>Soft, flexible PVC body molds to facial contours for a comfortable fit</i>				
	<i>Resist a broad range of chemicals</i>				
	<i>Circular vents allow air to flow freely through the goggle body</i>				
	<i>Meet ANSI™ Z87.1-2010 or equivalent</i>				
127	Lactose Broth	btl	1	4,800.00	4,800.00
	500g				
128	Lens Tissues, 25 Sheets per Booklet, 5 Booklets	pack	2	800.00	1,600.00
129	Methanol 2.5L	btl	6	1,200.00	7,200.00
	<i>Analytical Reagent Grade 2.5L per bottle</i>				
130	Paraffin, Tissue Embedding Medium, Kg	pack	6	1,500.00	9,000.00
	<i>Tissue Embedding Wax, Medium</i>				
	<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>				
131	Plastic Sharps Waste Container	pc	6	300.00	1,800.00
	<i>Made of high quality PE plastic, sturdy, thicken, lightweight, waterproof, durable.</i>				
	<i>This product is a waste sharps storage bin suitable for medical or laboratory use.</i>				
	<i>2L: app. 14.5cmx13.5cm/5.71inx5.31in</i>				
	<i>4L: app. 18.5cmx17.5cm/7.28inx6.89in</i>				
132	Potassium phosphate dibasic, K₂HPO₄	btl	1	1,450.00	1,450.00
	<i>Analytical grade</i>				
	<i>Use for enzyme buffers and chemical assays</i>				
	<i>Bottle of 500g</i>				
133	Sodium phosphate monobasic, NaH₂PO₄	btl	1	1,450.00	1,450.00
	500g				
134	Rectangular coverslip, 100/box	box	2	250.00	500.00



	Clear glass				
	Rectangular				
	W x L: 11mm X22				
	Thickness: 0.13-0.16mm				
135	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				
136	Sabouraud Dextrose Agar	btl	1	4,800.00	4,800.00
	500g				
137	Sodium Tellurite at least 10 grams per bottle	btl	1	4,500.00	4,500.00
	Component of the Baird Parker Agar used in identifying <i>Staph. aureus</i>				
138	Storage Tray	pcs	10	60.00	600.00
	Tray basket organizer				
	Product Dimension: L(19.3cm), W(24.5cm), H(6.5cm)				
	Plastic, any color				
139	Transparent ziplock bags (20 x 30cm), 100pc/bag	bag	1	200.00	200.00
140	Violet Red Bile Agar	btl	1	4,800.00	4,800.00
	500g				
141	Wright Stain	btl	1	2,826.00	2,826.00
	Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml				
142	Analytical Balance (500/0.001 g)	pc	1	14,950.00	14,950.00
143	Brush Suitable for cleaning 500mL Erlenmeyer Flask	pc	4	250.00	1,000.00
	Bristle Color: White Bristle				
	Brush+Handle Length: 14"				
	Brush Diameter: 1 1/2"				
	Brush Length: 4"				
	Suitable for cleaning 500mL Erlenmeyer Flask				
144	Haemocytometer Counting Chamber	set	1	15,000.00	15,000.00
	Material: colorless glass				
	Has two wells				
	Used for cell counting				
	Includes pipettes for RBC and WBC				
145	McMaster Counting Slides	set	1	6,000.00	6,000.00
	Count nematode egg				
	Egg per gram sensitivity: 25 EPG				
	Grid size: 1 cm x 1 cm				
	Volume under grid: 0.15 ml				
	Material: Acrylic				
146	Mortar and Pestle, Heavy Duty	unit	3	850.00	2,550.00
	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				
147	Stirring Rod	pc	6	50.00	300.00
	☑Standard Size				
	☑Good Quality				
	☑with rubber policeman				
148	Water Quality Test Meter	pc	2	2,000.00	4,000.00
	☑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				
149	WHITLOCK UNIVERSAL McMaster slide	set	1	20,000.00	20,000.00
	For nematode egg counting				
	Capacity: 4 chamber X 0.5ml				
150	250 ml Type 1, class A borosilicate glass Beaker	pcs	6	600.00	3,600.00
151	Aluminum weighing dish	box	1	3,000.00	3,000.00
	100/pk, 20mL capacity				
	Brand: Generic				
152	ASTM No. 100 Standard test sieve	pc	1	4,200.00	4,200.00
	8in (203mm) diameter ASTM E11 Test Sieve has stainless steel woven-wire cloth with No. 100 (150µm) openings and full height stainless steel frame. The overall height is 2-5/8in and the stacked height is 2-1/8in. This sieve is optionally available fitted with #35 (500µm) stainless steel backing cloth for enhanced durability. To order with backing cloth, please see V8SF #100 BU.				
	Features:				
	Individually serial numbered				
	Compliant with ASTM E11 requirements for Compliance Sieves				
	Included Items:				
	8" Sieve, All Stainless, Full Height, No. 100				
	Certificate of Conformance to ASTM E11 requirements				
	Accessories:				
	Sieve Pans nest underneath sieves to collect fines				



	Sieve Covers prevent sample loss during agitation				
	Verification Services provide NIST traceable documentation of opening sizes				
	ASTM E11 Opening Size: No.100 (150µm)				
	Sieve Frame Diameter: 8in (203mm)				
	Frame Height: Full Height				
	Stacked Frame Height: 2-1/8in				
	Overall Frame Height: 2-5/8in				
	Material: All Stainless Steel				
	Backing Cloth Included: No				
	Estimated Shipping Weight: 2.0lb (0.91kg)				
153	ASTM No. 230 standard test sieve	pc	1	6,500.00	6,500.00
	8in (203mm) diameter ASTM E11 Test Sieve has stainless steel woven-wire cloth with No. 230 (63µm) openings and full height stainless steel frame. The overall height is 2-5/8in and the stacked height is 2-1/8in. This sieve is optionally available fitted with #35 (500µm) stainless steel backing cloth for enhanced durability. To order with backing cloth, please see V8SF #230 BU.				
	Features:				
	Individually serial numbered				
	Compliant with ASTM E11 requirements for Compliance Sieves				
	Included Items:				
	8" Sieve, All Stainless, Full Height, No. 230				
	Certificate of Conformance to ASTM E11 requirements				
	Accessories:				
	Sieve Pans nest underneath sieves to collect fines				
	Sieve Covers prevent sample loss during agitation				
	Verification Services provide NIST traceable documentation of opening sizes				
	ASTM E11 Opening Size: No.230 (63µm)				
	Sieve Frame Diameter: 8in (203mm)				
	Frame Height: Full Height				
	Stacked Frame Height: 2-1/8in				
	Overall Frame Height: 2-5/8in				
	Material: All Stainless Steel				
	Backing Cloth Included: No				
	Estimated Shipping Weight: 2.0lb (0.91kg)				
154	Beaker Glass/borosilicate	pc	2	400.00	800.00
	600 mL glass beaker				
	Short Form, wide mouth with pout				
155	Beaker, Glass, 100mL	pc	6	500.00	3,000.00
	■100mL capacity, borosilicate glass				



156	Ethanol	btl	1	1,800.00	1,800.00
	☐AR, at least 95%v/v, 4L				
157	Glacial Acetic Acid	btl	1	3,500.00	3,500.00
	☐Analytical Reagent grade 2.5L per bottle				
158	Graduated Cylinder	ltr	2	700.00	1,400.00
	10-100 mL Translucent Plastic Graduated Cylinder				
159	Graduated Cylinder 10mL (Translucent Plastic)	ltr	2	300.00	600.00
	1-10 mL graduated cylinder (Translucent Plastic)				
160	Iodine crystals	btl	1	2,500.00	2,500.00
	Analytical Grade resublimed, 500g per bottle				
161	Mini Electric bean grinder	unit	1	3,000.00	3,000.00
	Material : Stainless steel				
	Power : 150W Voltage : 220V/50HZ				
	Capacity : 50-400ML about 150G food				
	Size : Diameter 10.5cm Height 17cm				
162	Mortar and Pestle (small)	pc	1	300.00	300.00
163	Potassium Hydroxide	btl	1	4,200.00	4,200.00
	☐Flakes				
	☐Analytical Grade				
	☐1kg				
164	Potassium iodide, KI	btl	1	5,000.00	5,000.00
	☐Analytical reagent grade, powder, 500g/bottle				
165	Potato Amylose (Type III)	btl	1	31,000.00	31,000.00
	Product Information:				
	Material Number / SKU				
	A0512-5G				
	Description:				
	Amylose from potato, used as amylase substrate				
	Foreign Trade Commodity Code:				
	39139090				
	CAS Number:				
	9005-82-7				
	Packaging Information				
	5 g in poly bottle				
166	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				
167	Kitchen type stainless steel strainer	pc	2	600.00	1,200.00
	Steel Strainer Dimension				
	8cm L8.5xW22xH4cm				
168	Compact Bench Scale	unit	1	20,000.00	20,000.00
	Battery Life: Up to 1500 Hours				
	Calibration: External Digital Calibration Software				
	Construction: ABS Housing				
	Display Type: Backlit LCD				
	Includes: Integrated Level Bubble, Adjustable Feet, Selectable Auto-Off, Selectable Weighing Units, In-Use Cover, and Integrated Carrying Handles for Easy Transportation				
	Model: V12P30				
	Stabilization Time: ≤ 2 sec.				
	Temperature (Metric) Operating: 0°C to 40°C				
	Weighing Modes: Gram, Kilogram, Pound, Ounce, Pound/Ounce				
	Length (English) Pan: 9.65 in.				
	Width (English) Pan: 7.48 in.				
	Depth (Metric): 260 mm				
	Weight (Metric): 2.5 kg				
	Battery Type: 4 D, Sold Separately				
	Certifications/Compliance: NSF, USDA-AMS				
	Capacity: 30 kg, 60 lb.				
	Readability: 0.01 lb. (5 g)				
	Material: Stainless Steel (Platform)				
	Resolution: 1:6,000 (Pounds)				
	Temperature (English) Operating: 32°F to 104°F				
	Type: Compact Bench Scale				
	Dimensions (L x W x H): 10.6 x 10.2 x 4.8 in. (270 x 260 x 122 mm)				
	Length (Metric) Pan: 245 mm				
	Width (Metric) Pan: 190 mm				
	Weight (English): 5.5 lb.				
	Electrical Requirements Power Requirements: AC Power Adapter, Included The information is not included in the provided product specifications.				
169	Pen type pH Meter	pc	1	10,000.00	10,000.00
	Accuracy (pH): ±0.02				
	Battery Life: 250 hr. (average)				



	Calibration: pH, temperature				
	Certifications/Compliance: CE, FCC				
	Display Type: Graphic Dot Matrix				
	Measurement Modes: pH, temperature				
	Resolution (pH): 0.01				
	Includes: Elite pH tester with batteries, lanyard and soft carry case				
	Probe Type: Analog				
	Stability: Stability icon on display				
	Temperature Compensation: Yes				
	Temperature Probe Calibration: 1 point				
	Temperature Resolution: 0.1°C, 0.1°F				
	Temperature Sensor: Thermistor				
	Dimensions (L x W x H): 200 x 45 x 36mm				
	Backlight Option: Yes				
	Battery Type: 4 x AAA Alkaline				
	Calibration Points: 1 to 3				
	Description: Elite pH pocket tester for measuring pH with temperature				
	IP Rating: IP 67				
	Range (pH): -1 to 15				
	Temperature Range (Metric): 0.0°C to 60.0°C				
	Keypad: 4 key				
	Relative Humidity Range: 5 to 85 %, non-condensing				
	Temperature Accuracy: ±0.6°C, ±1.0°F for 0.0 to 50.0°C; ±1.1°C, ±1.9°F for 50.1 to 60.0°C				
	Temperature (Metric) Operating: 5°C to 45°C (ambient)				
	Temperature Range (English): 32.0°F to 140.0°F				
	Temperature Selection: ATC				
	Warranty: 1 Year for Tester				
170	Stainless Cassava Grater	pc	1	250.00	250.00
	<i>Item dimension</i>				
	<i>10x5x2.5 inches</i>				
171	DIAL THERMOMETER	pcs	20	500.00	10,000.00
	<i>Dimensions HxWxD: 1" x 5" x 1" (25 x 127 x 25 mm)</i>				
	<i>Weight: 0.05 lbs (0.02 kg)</i>				
	<i>Temperature Range: 0°F-220°F</i>				
	<i>Units: Fahrenheit</i>				
	<i>Adapter/Batteries: Analog, No Batteries Required</i>				
	FEATURES / BENEFITS				
	<i>NSF Certified</i>				
	<i>Dishwasher safe</i>				



	Shatterproof lens				
	Magnified dial				
	Protective sheath included				
172	Flat Plate Weighing Scale, 30KG	unit	10	4,050.00	40,500.00
	Table Scale, Large, Mechanical Dial Type, Legal for Trade, Anti-Bacterial Powder Coat, Flat Plate				
	Capacity: 30 kg				
	Graduation / Readability: 0.1 kg				
	Type: Mechanical				
173	MILK PAIL STAINLESS, 5 Liter Capacity	pc	55	5,000.00	275,000.00
	Ideal for Milk for calves, food or for milk processing.				
	Fully Stainless steel food grade bucket.				
	Inside and outside high-gloss polished				
	Graduation in litres				
	Holds 5 litres				
174	STAINLESS FUNNEL	pcs	50	2,000.00	100,000.00
	DIM: 16 X 19 CM				
	Made of stainless steel, durable and easy to clean				
175	Stainless Steel Milk Canister, 10L capacity	can	50	6,000.00	300,000.00
	Material: 304 SS (AISI)				
	Grade: AISI				
	Capacity: 10L				
	Overall Height: 229mm				
	Overall Width: 292mm				
	Overall Length:229mm				
	Thickness:1.2mm				
	Suitable: Carrying Milk				
	Packing: 1 Pcs				
	Weight: 1.4kg				
176	Impulse Plastic Band Sealer,300mm for PP/PE Bags	unit	6	1,500.00	9,000.00
	PFS-300				
	Impulse power: 400W				
	Voltage: 220V				
	Frequency: 50- 60Hz				
	Heat Time: 0.3 - 2.5s				
	Sealing Length: 300MM				
	Sealing Width: 2mm/0.1 inch				
	Max Sealing Thickness: 0.2mm				
	Main Material: ABS				
	Good quality				
177	LABORATORY ALCOHOL LAMP PLASTIC COVER	pc	10	150.00	1,500.00



	Alcohol Burner Lamp				
	Capacity: 50ml				
	Glass alcohol burner for lab and craft				
	Height(mm):118				
	Dimension: 6cm x 16cm x 9cm				
178	Test tube Clamp/Holder	pcs	10	100.00	1,000.00
	6.25 inches long with finger grips				
	Holds any size test tube.				
179	Test Tube Rack 50pcs socket	pc	15	250.00	3,750.00
	Holds 50 test tubes				
	Color white				
	Material: Plastic				
180	Test Tube with Screw Cap	pc	75	50.00	3,750.00
	Borosilicate 3.3 glass test tubes with screw cap				
	Capacity 10ml				
	Length x OD: 150 x 25mm				
	Round bottom				
	Includes bakelite screw cap with rubber liner				
	Excellent resistance to heat and chemicals				
	Tube and cap are autoclavable				
	13x100mm 10mL capacity				
181	Beaker, Glass, 250mL	pc	6	400.00	2,400.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
182	Erlenmeyer Flask, Glass, 250mL	pcs	6	400.00	2,400.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
	Rebidding (from VSU-GOODS-23-30)				
183	Test Tube Racks, 12mm x 12 Holes	pcs	5	600.00	3,000.00
	Stainless Steel Holes Test Tube Rack				
184	10 ml Type 1, class A borosilicate glass Graduated Cylinder	pcs	10	250.00	2,500.00
185	Graduated Cylinder, Glass, 100mL	pcs	10	400.00	4,000.00
	☐Type 1, Class A Borosilicate Glass				
186	Aluminum Burette Clip Titration Clamp	pc	5	500.00	2,500.00
	compatible with the 50 ml capacity Glass Burette				
	materials is Aluminum				
187	Hot Plate	pcs	5	4,000.00	20,000.00
	☐79-1 1000ml Hot Plate Magnetic Stirrer Lab Heating Speed Control Mixer 220V AU Plug				



188	Laboratory Burette Stand	pc	10	1,000.00	10,000.00
	☐ 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 (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).				
189	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				
190	Triple Beam Balance	pc	10	3,500.00	35,000.00
	☐ Capacity - 2610g				
	☐ Readability - 0.1g				
	☐ Repeatability - 0.2g				
	☐ Pan size - 152mm ø				
191	Microscope temperature stage Peltier System	unit	1	200,000.00	200,000.00
	compatible with Euromex OX.2453-PLPHF				
	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				
192	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				
193	PLN 100x Objective Lens and Fluoro-Max Dyed Green Aqueous Fluorescent Particles	lot	1	200,000.00	200,000.00
	1. PLN 100x Objective Lens				
	compatible with Euromex OX.2453-PLPHF				
	Compatible Cover Glass Thickness (mm): N/A				
	Field of View (mm): 0.22				
	Focal Length FL (mm): 1.8				
	Model Number: 1-U2B235-delete				
	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 (μ m): 0.27				
	Field Number (mm): 22				
	Parfocal Length (mm): 45				
	Style: Infinity Corrected				
	Manufacturer: Olympus-delete				
	Immersion Liquid: Oil				
	Depth of Focus (μ m): 1760				
	2. Fluoro-Max Dyed Green Aqueous Fluorescent Particles				
	Specifications:				
	Diameter= 0.10 μ m				
	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				
194	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/cm ²				
	RNase/DNase Activity: None Detected				
195	CTAB	btl	4	3,000.00	12,000.00
	500g, AR				
196	Vinyl Sheet	roll	1	3,000.00	3,000.00
	Transparent				
	1.5mm thickness				
	10 meters				
197	Isopropanol	btl	1	8,000.00	8,000.00
	Molecular grade/DNA Extraction				
	In 2.5 L Amber bottle				
198	Amber Reagent Bottle, 500mL	pc	10	750.00	7,500.00
	With Stopper/Screw Cap				
	Material: Glass/Borosilicate Glass				
	Capacity: 500mL				
199	200 μL pipette tips (Yellow or clear)	pack	5	500.00	2,500.00
	at least 1000 pcs/ pack				
200	Casein	pack	10	1,300.00	13,000.00
	Food grade casein 1kg/pack				
	25 cm ² with Blue Plug Seal Screw Cap, 50 ml capacity				
201	Autoclavable Plastic bag	pack	2	3,600.00	7,200.00
	12x24 inches 100 pcs / pack 2mm thickness				



202	Hydrochloric acid, HCl	btl	3	1,000.00	3,000.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>				
203	Taq Mastermix	btl	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>				
204	Proteinase K (1ml)	tube	10	2,200.00	22,000.00
	<i>1ml/ tubeMolecular Grade</i>				
205	(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>				
206	Scalpel Handle	pc	3	70.00	210.00
	■#4, Stainless steel;				
207	Scalpel Blade	box	2	280.00	560.00
	■Stainless steel				
	■100 blades/box				
208	Agar Agar	kg	3	2,800.00	8,400.00
209	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				
210	Hand Soil Auger	unit	3	3,500.00	10,500.00
	■Material: stainless steel				
	■Auger length: 25cm				
	■Length: 0.5m				
	■External Diameter: 38mm				
211	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				
212	Potassium dichromate, AR Grade	btl	1	1,550.00	1,550.00
	■500 grams/poly bottle				
213	Sodium Hexametaphosphate, 500g	btl	2	800.00	1,600.00
214	Sulfuric acid, H2SO4	btls	1	1,200.00	1,200.00
	■Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle;				
215	Digital Caliper	pc	1	7,000.00	7,000.00
	brand new accurate high quality Stainless steel Vernier Calliper (millimeter and inches size) size:12"(0-300mm) high in quality genuine product Digital Calliper				
				TOTAL:	4,724,689.00

DILBERTO O. FERRAREN
BAC Chairman