



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

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

Government of the Republic of the Philippines

**October 04, 2023; 2:00 PM
BAC Conference Room, VSU Market, Visca, Baybay City, Leyte
and via Zoom**

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Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	3
Section I. Invitation to Bid.....	6
Section II. Instructions to Bidders.....	41
1. Scope of Bid	42
2. Funding Information.....	42
3. Bidding Requirements	42
4. Corrupt, Fraudulent, Collusive, and Coercive Practices	42
5. Eligible Bidders.....	42
6. Origin of Goods	43
7. Subcontracts	43
8. Pre-Bid Conference	43
9. Clarification and Amendment of Bidding Documents	43
10. Documents comprising the Bid: Eligibility and Technical Components	43
11. Documents comprising the Bid: Financial Component	44
12. Bid Prices	44
13. Bid and Payment Currencies	45
14. Bid Security	45
15. Sealing and Marking of Bids	45
16. Deadline for Submission of Bids	45
17. Opening and Preliminary Examination of Bids	46
18. Domestic Preference	46
19. Detailed Evaluation and Comparison of Bids	46
20. Post-Qualification	47
21. Signing of the Contract	47
Section III. Bid Data Sheet	48
Section IV. General Conditions of Contract	50
1. Scope of Contract	51
2. Advance Payment and Terms of Payment	51
3. Performance Security	51
4. Inspection and Tests	51
5. Warranty	52
6. Liability of the Supplier	52
Section V. Special Conditions of Contract	53
Section VI. Schedule of Requirements	58
Section VII. Technical Specifications	91
Section VIII. Checklist of Technical and Financial Documents	122

Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

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

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

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

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid



INVITATION TO BID FOR SUPPLY AND DELIVERY OF LABORATORY EQUIPMENT, SUPPLIES, AND CHEMICALS

1. The *Visayas State University* through the *GF, STF, and TF 2023* intends to apply the sum of *Four Million Seven Hundred Twenty Four Thousand Six Hundred Eighty Nine Pesos (PhP 4,724,689.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Equipment, Supplies, and Chemicals (VSU-GOODS-23-40)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University*, through the *GF, STF, and TF 2023* intends to apply the following ABC per item to payments under the contract for each item, to wit:

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 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				

	<i>Suitable for electrophoresis, ≥99.5%</i>				
	<i>Size: 500g per bottle</i>				
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
	☑ <i>Branding the chemical to be purchase is following the protocol set for the project's protocol and standards</i>				
	☑ <i>Chemical must be plant tissue culture tested for at least 20 years</i>				
	☑ <i>ISO complaint</i>				
	☑ <i>ACS REAG</i>				
	☑ <i>PH EUR</i>				
	☑ <i>meets USP Standards</i>				
	☑ <i>Bioreagent suitable for cell culture</i>				
	☑ <i>500g</i>				
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
	<i>CAS: 7647-17-8</i>				
	<i>Form: Colourless or white deliquescent crystals or powder or beads or chunk</i>				
	<i>Pack Size: 25g/btl</i>				
	<i>Packaging Type: glass bottle</i>				
	<i>Grade: AR quality</i>				
27	Cobalt chloride (CoCl₂, 6H₂O) suitable for plant cell and tissue culture	btl	1	1,600.00	1,600.00
	☑ <i>Molecular weight: 249.6</i>				
	☑ <i>500g/btl</i>				
28	Compound Binocular Microscope	pc	5	32,000.00	160,000.00
	<i>Head: 45° Inclined Binocular, 360° rotation</i>				
	<i>Eyepiece: 10x Wide Field Eyepiece</i>				
	<i>Nosepiece: 4 Position</i>				
	<i>Optical Magnification Range: 40 to 1000x</i>				
	<i>Objectives: 4x, 10x, 40x, 100x</i>				
	<i>- Achromatic Optics</i>				
	<i>Mechanical Stage/ Slide Holder: 5.5 x 5.5 inches</i>				
	<i>Focusing: Coarse and Fine</i>				
	<i>Illumination: Halogen Illumination</i>				
	<i>Dimmer: Yes</i>				
	<i>Body Frame: Metal frame with Gray Finish</i>				
	<i>Weight: Approximately 12.3 lb / 5.5 kg</i>				
29	Copper sulfate, CuSO₄	btl	1	1,800.00	1,800.00
	☑ <i>Anhydrous, Analytical reagent grade, 500g/bottle</i>				

30	Dial Instant-Read Kitchen Thermometer (Bimetal)	unit	1	1,000.00	1,000.00
	<i>Reads in 15-20 seconds</i>				
	<i>Place 2 - 2 1/2 deep in the thickest part of food</i>				
	<i>Can be used in roasts, casseroles, and soups</i>				
	<i>Temperature is averaged along probe, from tip to 2-3" up the stem</i>				
	<i>Cannot measure thin foods unless inserted sideways</i>				
	<i>Not designed to remain in food while it is cooking</i>				
	<i>Use to check the internal temperature of a food at the end of cooking time</i>				
	<i>Can be calibrated</i>				
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 parfocussed, 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, ±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, ≥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				

	<i>Good quality</i>				
41	Holder scalpel # 4	pc	2	500.00	1,000.00
	<i>stainless steel scalpel handle is used with scalpel blade # 22</i>				
	<i>It has a curved cutting edge and a flat, notched back for a more secure hold</i>				
	<i>It is used for plant tissue culture</i>				
	<i>Good quality</i>				
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>				
<i>The graphic display allows for the use of virtual keys to provide for an intuitive user interface</i>				
<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>				
<i>Quick Connect digital Probe-The probe features a quick connect DIN connector that makes a waterproof connection with the meter.</i>				
<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>				
<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>				
<i>Automatic temperature compensation-Integrated temperature sensor allows for automatic temperature compensation of pH, conductivity and dissolved oxygen measurements</i>				
<i>Automatic Barometric pressure compensation-The meter features a built-in barometer with user selectable units for dissolved oxygen pressure compensation</i>				
<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>				
<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>				
<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>				

	<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>				
	<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>				
	<i>PC Connectivity- Logged data can be transferred to the Window's compatible PC with the included micro USB cable and software</i>				
	<i>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</i>				
	<i>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.</i>				
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
	<input checked="" type="checkbox"/> Branding the chemical to be purchase is following the protocol set for the project's protocol and standards				
	<input checked="" type="checkbox"/> Chemical must be plant tissue culture tested for at least 20 years				
	<input checked="" type="checkbox"/> ISO complaint				
	<input checked="" type="checkbox"/> ACS REAG				
	<input checked="" type="checkbox"/> PH EUR				
	<input checked="" type="checkbox"/> meets USP Standards				
	<input checked="" type="checkbox"/> 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
	<i>Material specification = NYLON/PE (Vacuum Sealable Plastic)</i>				
	<i>Thickness (microns) +/- 5% = 80</i>				
	<i>Variant = Flat pouch - back seal (w/o zip)</i>				
	<i>Size = 20*23 cm</i>				
	<i>No. of colors = 4</i>				
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				
	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				

	<i>Immersion Liquid: Oil</i>				
	<i>Depth of Focus (µm): 1760</i>				
	2. Fluorescent microspheres (Catalog Code.: FS03F)- 1 pc				
	<i>Diameter= 0.50 µm</i>				
	<i>Volume= 5 ml</i>				
	<i>~1% solids (w/v) aqueous suspensions</i>				
	<i>Blue Excitation= 465- 495 nm</i>				
	<i>Fluorescence color- Dragon Green (480 nm, 520 nm)</i>				
	3. Fluorescent Polystyrene Beads (Catalog No.: 2104)- 2 pcs.= PhP 46, 394.16				
	<i>Diameter= 1.0 µm</i>				
	<i>Volume= 1 ml</i>				
	<i>Blue Excitation= 465- 495 nm</i>				
	<i>Particle density- 1.06 g/cm³</i>				
	<i>Fluorescence color- Green (450 nm, 510 nm)</i>				
62	Potassium iodide, KI	btl	2	5,000.00	10,000.00
	☑ <i>Analytical reagent grade, powder, 500g/bottle</i>				
63	Potassium Nitrate	pack	2	5,800.00	11,600.00
	☑ <i>AR grade</i>				
	☑ <i>Formula: KNO₃</i>				
	☑ <i>Molar wt: 101.1032 g/mo</i>				
	☑ <i>1kg/pack</i>				
64	Potassium phosphate monobasic, KH₂PO₄	btl	3	1,450.00	4,350.00
	<i>Analytical grade</i>				
	<i>Use for enzyme buffers and chemical assays</i>				
	<i>Bottle of 500g</i>				
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
	<i>To use this crucible "C 5010.5 Crucible pan, big' is required.</i>				
	<i>Allows to fill in a higher amount of material with a low calorific value</i>				
	<i>Especially for samples with a high ash content 22mm (inner diameter) x 18 mm (absolute height)</i>				
67	Retriever	pc	2	650.00	1,300.00
	<i>Magnetic stir bar retriever</i>				
	<i>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</i>				

	laboratory applications				
	Size : Length 250 mm				
	Material : Steel & PTFE (Polytetrafluoroethylene)				
	Color: White				
68	Shower and eyewash	pc	1	38,000.00	38,000.00
	<i>Stainless Steel Shower & Eyewash Station.</i>				
	<i>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).</i>				
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
	<i>Stainless steel dairy equipment</i>				
	<i>Have side handles</i>				
	<i>Umbrella shaped lid</i>				
	<i>20 litre: 20cm neck, 45cm high</i>				
72	Stainless Steel Milk Pail, 10Liter Capacity	unit	50	7,500.00	375,000.00
	<i>Stainless Steel</i>				
	<i>Volume :10 L</i>				
	<i>Diameter: 30 cm</i>				
	<i>Weight: 1.25 kg</i>				
	<i>Height: 27.2 cm</i>				
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:				
	Stainless Steel Matte Finish Autoclavable Available in Serrated or 1x2				
	teeth: 8 inches long				
	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.				
80	Triethanolamine, AR	liter	1	3,000.00	3,000.00
81	Tween 80, 500ml/bot	btl	1	3,500.00	3,500.00
	Tween 80 (polysorbate 80, polyoxyethylene sorbitan monooleate) is				
	non-ionic surfactant used for plant tissue culture.				
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
	S-0200- VX-200 Vortex Mixer;				
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
	Plastic, 1000ml (1L) capacity for Particle Size Analysis				
89	Mini Light Meter	pc	2	2,000.00	4,000.00
	200,000 LUX Digital Luxmeter Luminance Lux Fc Test				
	Max-Min Illuminometers				
	Illuminance Measurement: 0 to 199,900				
	Lux 0 to 18,500 Fc				
	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
	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				
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 ±0.3% FS/ °C, Span : less than ±0.01% FS/ °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 °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 celcius1kg per bag				
96	Fluorescent Polystyrene Beads (Catalog No.: 2104)	pc	2	50,000.00	100,000.00
	<i>Specifications:</i>				
	<i>Diameter= 1.0 um</i>				
	<i>Volume= 1 ml</i>				
	<i>Blue Excitation= 465- 495 nm</i>				
	<i>Particle density- 1.06 g/cm³</i>				
	<i>Fluorescence color- Green (450 nm, 510 nm)</i>				
	<i>Em</i>				
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 : European Commission</i>				
107	Sodium (Na), Hollow cathode lamp	pc	1	36,000.00	36,000.00

	Sodium (Na), Uncoded hollow cathode lamp for Agilent AAS 200.				
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>				
	<i>Color: None</i>				
	<i>Target Mean Diameter : 1 µm</i>				
	<i>Actual Mean Diameter: 0.953 µm</i>				
	<i>Standard diameter: 0.195 µm</i>				
	<i>Number of Spheres (per mL): 2.10E+10</i>				
	<i>Anti-microbial agent: 2mM NaN3</i>				
	<i>Media: 0.1% Tween 20 in DI Water</i>				
	<i>Solid content: 1%</i>				
	<i>Storage: 2-8 °C</i>				
111	Veterinary Endoscope	set	1	150,000.00	150,000.00
	<i>Insertion tube: Charge-coupled device (CCD) chip (video-endoscope); Biopsy/suction channel; Irrigation/insufflation channel; Deflection control cables</i>				
	<i>Handpiece: Deflection control knobs; Accessory channel entrance; Irrigation/insufflation; Suction valves</i>				
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
	☑ <i>Heavy Duty Industrial Chemical Laboratory Apron</i>				
	☑ <i>Material: Neoprene</i>				
	☑ <i>Color : Black</i>				
	☑ <i>Chemical Resistant (Suitable protection against wide range of chemicals)</i>				
	☑ <i>Light weight</i>				
	☑ <i>Sizes : at least 35" X 43"</i>				
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
	Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml				
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
	Chemical and heat resistant				
	Anti-fog clear polycarbonate lens				
	Soft, flexible PVC body molds to facial contours for a comfortable fit				
	Resist a broad range of chemicals				
	Circular vents allow air to flow freely through the goggle body				
	Meet ANSI™ Z87.1-2010 or equivalent				
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
	Analytical Reagent Grade 2.5L per bottle				

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
	<i>500g</i>				
134	Rectangular coverslip, 100/box	box	2	250.00	500.00
	<i>Clear glass</i>				
	<i>Rectangular</i>				
	<i>W x L: 11mm X22</i>				
	<i>Thickness: 0.13-0.16mm</i>				
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
	<i>500g</i>				
137	Sodium Tellurite at least 10 grams per bottle	btl	1	4,500.00	4,500.00
	<i>Component of the Baird Parker Agar used in identifying 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
	<i>500g</i>				
141	Wright Stain	btl	1	2,826.00	2,826.00
	<i>Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml</i>				
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
	<i>Product Information:</i>				
	<i>Material Number / SKU</i>				
	A0512-5G				
	<i>Description:</i>				
	<i>Amylose from potato, used as amylase substrate</i>				
	<i>Foreign Trade Commodity Code:</i>				
	39139090				
	<i>CAS Number:</i>				
	9005-82-7				
	<i>Packaging Information</i>				
	<i>5 g in poly bottle</i>				
166	High Duty Blender	unit	1	7,000.00	7,000.00
	<i>-Power – 375-watt motor</i>				
	<i>– Speed – 10-speed push button</i>				
	<i>– Function – Controlled/pulse blending (buttons 1-3) or continuous blending (buttons 4-10)</i>				
	<i>– Durability – Exclusive All-Metal Drive™ system</i>				
	<i>– Blade – High performance ice-crushing stainless steel blade</i>				
	<i>– Capacity – 5-cup (1.25L) heat-resistant glass jar</i>				
	<i>– Warranty – 1 Year Household Warranty</i>				
	<i>– Dimensions – 26 x 18 x 32 cm</i>				
167	Kitchen type stainless steel strainer	pc	2	600.00	1,200.00
	<i>Steel Strainer Dimension</i>				
	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: $\pm 0.6^{\circ}\text{C}$, $\pm 1.0^{\circ}\text{F}$ for 0.0 to 50.0 $^{\circ}\text{C}$; $\pm 1.1^{\circ}\text{C}$, $\pm 1.9^{\circ}\text{F}$ for 50.1 to 60.0 $^{\circ}\text{C}$				
	Temperature (Metric) Operating: 5 $^{\circ}\text{C}$ to 45 $^{\circ}\text{C}$ (ambient)				
	Temperature Range (English): 32.0 $^{\circ}\text{F}$ to 140.0 $^{\circ}\text{F}$				
	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$^{\circ}\text{F}$-220$^{\circ}\text{F}$</i>				
	<i>Units: Fahrenheit</i>				
	<i>Adapter/Batteries: Analog, No Batteries Required</i>				
	FEATURES / BENEFITS				
	<i>NSF Certified</i>				
	<i>Dishwasher safe</i>				
	<i>Shatterproof lens</i>				
	<i>Magnified dial</i>				
	<i>Protective sheath included</i>				
172	Flat Plate Weighing Scale, 30KG	unit	10	4,050.00	40,500.00
	<i>Table Scale, Large, Mechanical Dial Type, Legal for Trade, Anti-Bacterial Powder Coat, Flat Plate</i>				
	<i>Capacity: 30 kg</i>				
	<i>Graduation / Readability: 0.1 kg</i>				
	<i>Type: Mechanical</i>				
173	MILK PAIL STAINLESS, 5 Liter Capacity	pc	55	5,000.00	275,000.00
	<i>Ideal for Milk for calves, food or for milk processing.</i>				
	<i>Fully Stainless steel food grade bucket.</i>				
	<i>Inside and outside high-gloss polished</i>				
	<i>Graduation in litres</i>				
	<i>Holds 5 litres</i>				
174	STAINLESS FUNNEL	pcs	50	2,000.00	100,000.00
	<i>DIM: 16 X 19 CM</i>				
	<i>Made of stainless steel, durable and easy to clean</i>				
175	Stainless Steel Milk Canister, 10L capacity	can	50	6,000.00	300,000.00
	<i>Material: 304 SS (AISI)</i>				
	<i>Grade: AISI</i>				

	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
	<i>Stainless Steel Holes Test Tube Rack</i>				
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
	<i>compatible with the 50 ml capacity Glass Burette</i>				
	<i>materials is Aluminum</i>				
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 µL/hr (1 mL syringe) to 7515 mL/hr (60 mL syringe)				
	Easy-to-use keypad interface				
	One-click program upload from "Pumping Program Generator" spreadsheet				
	Space Saving Chassis: Foot print size of only 5 3/4" x 8 3/4"				
	Won't take up unnecessary space on your laboratory or production bench				
	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				

	<i>Model Number: 1-U2B235</i>				
	<i>Length excluding Threads (mm): 44.7</i>				
	<i>Magnification: 100X</i>				
	<i>Maximum Diameter (mm): 24</i>				
	<i>Numerical Aperture NA: 1.25</i>				
	<i>Mounting Threads: RMS / 20.32mm x 36 TPI</i>				
	<i>Compatible Tube Lens Focal Length (mm):</i>				
	<i>Focal Length: 180mm</i>				
	<i>Type: Microscope Objective</i>				
	<i>Weight (g): 114</i>				
	<i>Working Distance (mm): 0.15</i>				
	<i>Resolving Power (μm): 0.27</i>				
	<i>Depth of Field (μm): 0.27</i>				
	<i>Field Number (mm): 22</i>				
	<i>Parfocal Length (mm): 45</i>				
	<i>Style: Infinity Corrected</i>				
	<i>Manufacturer: Olympus</i>				
	<i>Immersion Liquid: Oil</i>				
	<i>Depth of Focus (μm): 1760</i>				
	<i>2. Fluoro-Max Dyed Green Aqueous Fluorescent Particles</i>				
	<i>Specifications:</i>				
	<i>Diameter= 0.10 μm</i>				
	<i>Quantity= 15 ml</i>				
	<i>Additive: Trace amounts of surfactant to inhibit agglomeration and promote stability</i>				
	<i>Concentration: 1% solids</i>				
	<i>Contents: Dyed polystyrene microspheres in water</i>				
	<i>Color: Green</i>				
	<i>Material: Polystyrene</i>				
	<i>Product Type: Fluorescent Particle</i>				
	<i>Dye Type: Firefli™ Fluorescent Green (468/508nm)</i>				
	<i>Includes: Package Insert Sheet</i>				
	<i>Particle Density : 1.05g/cm³</i>				
	<i>Quantity: 15ml</i>				
	<i>Refractive Index: 1.59 at 589nm (25°C)</i>				
	<i>Stability: Product stable for a minimum of 24 months</i>				
	<i>Uniformity: <10%</i>				
	<i>Diameter (Metric) Mean: 0.1 μm</i>				
	<i>Diameter (Metric) Nominal: 0.1 μm</i>				
	<i>Diameter (Metric): 0.10 μm</i>				
	<i>Unit Size: Each</i>				

194	Low melting point Agarose Powder 125 g	btl	4	15,900.00	63,600.00
	<i>Gelling Temp: 36.0-36.5 °C</i>				
	<i>Moisture Content: 3.29%</i>				
	<i>Sulfate: 0.096%</i>				
	<i>EEO (-mr): 0.12</i>				
	<i>Gel Strength: 1230g/cm2</i>				
	<i>RNase/DNase Activity: None Detected</i>				
195	CTAB	btl	4	3,000.00	12,000.00
	<i>500g, AR</i>				
196	Vinyl Sheet	roll	1	3,000.00	3,000.00
	<i>Transparent</i>				
	<i>1.5mm thickness</i>				
	<i>10 meters</i>				
197	Isopropanol	btl	1	8,000.00	8,000.00
	<i>Molecular grade/DNA Extraction</i>				
	<i>In 2.5 L Amber bottle</i>				
198	Amber Reagent Bottle, 500mL	pc	10	750.00	7,500.00
	<i>With Stopper/Screw Cap</i>				
	<i>Material: Glass/Borosilicate Glass</i>				
	<i>Capacity: 500mL</i>				
199	200 µL pipette tips (Yellow or clear)	pack	5	500.00	2,500.00
	<i>at least 1000 pcs/ pack</i>				
200	Casein	packs	10	1,300.00	13,000.00
	<i>Food grade casein 1kg/pack</i>				
	<i>25 cm² with Blue Plug Seal Screw Cap, 50 ml capacity</i>				
201	Autoclavable Plastic bag	pack	2	3,600.00	7,200.00
	<i>12x24 inches 100 pcs / pack 2mm thickness</i>				
202	Hydrochloric acid, HCl	btls	3	1,000.00	3,000.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>				
203	Taq Mastermix	btls	4	13,500.00	54,000.00
	<i>Certified molecular Biology grade</i>				
	<i>Ready to Use Reaction Mix</i>				
	<i>Mixture includes an enzyme, dNTPs, MgCl₂, SYBR Green I Dye, enhancer, stabilizer</i>				
	<i>Size: 2 x 1mL (200x x 20uL rxn)</i>				
204	Proteinase K (1ml)	tubes	10	2,200.00	22,000.00
	<i>1ml/ tube Molecular 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	pcs	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	kilos	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

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

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

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

4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *13 September – 04 October until 1:30 PM* 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.

6. The *Visayas State University* will hold a Pre-Bid Conference on *September 22, 2023; 2:00 PM* at the *BAC Conference Room, VSU Market, Visca, Baybay City, Leyte* and through video conferencing *via Zoom*, which shall be open to prospective bidders.

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

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before *04 October 2023 until 1:30 PM*. Late bids shall not be accepted.
8. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through preferred couriers. A proof (e.g. courier receipt/waybill, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
10. Bid opening shall be on *04 October 2023; 2:00 PM* at the *BAC Conference Room, VSU Market, Visca, Baybay City, Leyte* and through video conferencing *via Zoom*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Bidders are advised to contact the BAC Secretariat before the scheduled Bid Opening for the Zoom meeting details.

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

Mr. Leopoldo S. Escala Jr. (BAC Secretariat)
Office of the Head for Procurement,
VSU-Main, Visca, Baybay City, Leyte
Mobile: 053 565 0600 local 1093 or 09639629709
Email: leopoldo.escala@vsu.edu.ph

or

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

13. You may visit the following websites:

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

September 13, 2023



DILBERTO O. FERRAREN
Chairperson, VSU BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Visayas State University*, wishes to receive Bids for the *Supply and Delivery of Laboratory Equipment, Supplies, and Chemicals*, with identification number *VSU-GOODS-23-40*.

The Procurement Project (referred to herein as “Project”) is composed of *201 items*, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for 2023 in the amount of *Four Million Seven Hundred Twenty Four Thousand Six Hundred Eighty Nine Pesos (PhP 4,724,689.00)*.

2.2. The source of funding is: NGA, the General Appropriations Act, Special Trust Fund (STF), and Trust Fund (TF).

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

Bidder should comply with the following requirements:

- i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%)* of the ABC for this Project; and
 - ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

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

7. Subcontracts

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

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

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

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

11. Documents comprising the Bid: Financial Component

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

12. Bid Prices

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

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

13. Bid and Payment Currencies

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

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until *February 04, 2024*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

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

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

16. Deadline for Submission of Bids

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

17. Opening and Preliminary Examination of Bids

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

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

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

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

RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. <i>Laboratory Supplies/Equipment/Chemicals</i> b. completed within two (2) years prior to the deadline for the submission and receipt of bids.
7.1	Subcontracting is not allowed.
12	The price of the Goods shall be quoted DDP <i>VSU Main, Visca, Baybay City, Leyte</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: <ul style="list-style-type: none"> a. The amount of not less than <i>Ninety Four Thousand Four Hundred Ninety Three and 78/100 Pesos (PhP 94,493.78)</i> or two percent (2%) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>Two Hundred Thirty Six Thousand Two Hundred Thirty Four and 45/100 Pesos (PhP 236,234.45)</i> or five percent (5%) of ABC if bid security is in Surety Bond.
15	Bidders are requested to submit two (2) more copies of its bid (Copy 1 and Copy 2) in addition to the required original hardcopy. For filing purposes, the bidders are urged to use Red envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.
19.3	<i>See Section I. Invitation to Bid (Item 1) for the list of items and their corresponding total Approved Budget for the Contract (ABC) per item.</i>
20.2	Bidders are required to submit its updated Mayor's/Business Permit during post-qualification.
21.2	<i>Not Applicable.</i>

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

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

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

3. Performance Security

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

4. Inspection and Tests

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

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery term applicable to this Contract is delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p style="text-align: center;"><u><i>Vivian V. Balbarino</i></u> <i>Head, Supply and Property Management Office</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082/ 09175518871</i> <i>Email: sppmo@vsu.edu.ph</i></p> <ul style="list-style-type: none"> • Additional Instruction: The Supplier should notify the Head of Supply and Property Management Office atleast 1 week before the scheduled delivery. <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Spare Parts –

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

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

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

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

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

Packaging –

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

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

	<p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Intellectual Property Rights –</p>

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

Section VI. Schedule of Requirements

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

Item #	Qty	Unit	Description	Delivered, Weeks/Months
1	1	pack	0.5-10 μ L pipette tips (white)	All Items Should Be Delivered to VSU Main Campus, Visca, Baybay City, Leyte within 90 calendar days from receipt of Notice To Proceed (NTP), Purchase Order.
			<i>0.5-10 μL pipette tips (white) at least 1000 pcs/pack</i>	
2	30	pc	100 ml Type 1, class A borosilicate glass Beaker	
3	1	pack	1000 μ L pipette tips (Blue)	
			■ <i>1000 μL pipette tips (Blue) at least 1000 pcs/pack;</i>	
4	2	pc	1000mL Beaker Plastic	
			<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 (°C): 120</i>	
			<i>Handle: Yes</i>	
5	24	pc	125 ml Erlenmeyer flask	
			<i>70980-125- 125 ml Erlenmeyer flask;</i>	
6	1	btl	2,4-Dichlorophenoxyacetic acid, 250grams/btl	
			<i>2,4-Dichlorophenoxyacetic acid plant growth regulator 2,4-D used for</i>	
			<i>Plant tissue culture</i>	
7	2	pack	200 μ L pipette tips (Yellow)	
			<i>200 μL pipette tips (Yellow) at least 1000 pcs. per pack</i>	
8	3	pc	250 mm glass stirring rod	
9	5	box	3 layer Non-woven surgical face mask, at least 50 pcs. per box	
10	3	pc	30 ml Rubber Aspirator suction	
11	10	pc	50 ml Type 1, class A borosilicate glass Beaker	
12	1	pack	Activated Charcoal suitable for plant cell and tissue culture (500g)/pack	
13	1	btl	Agar for plant cell and tissue culture	
			<i>500grms/btl</i>	
14	1	gal	Alcohol, Ethyl, 95% (Tech)	
15	2	pack	Ammonium Acetate, AR, 500g	
16	1	btl	Ammonium Flouride	
			■ <i>White crystalline</i>	
			■ <i>ACS reagent, \geq98.0%</i>	
			■ <i>500g/btl</i>	
17	2	pack	Ammonium Nitrate	

			<ul style="list-style-type: none"> ☐ AR grade; at least 98% purity
			<ul style="list-style-type: none"> ☐ Molecular Wt. 80.043 grams per mol.
			<ul style="list-style-type: none"> ☐ 1kg/pack
18	2	btl	Ammonium Sulfate, 500g/btl.
			<ul style="list-style-type: none"> ☐ Anhydrous
			<ul style="list-style-type: none"> ☐ Lab grade/ Analytical reagent grade
			<ul style="list-style-type: none"> ☐ Expiration date(3 years from the delivery date)
			<ul style="list-style-type: none"> ☐ Packed in Teflon bottles
19	2	btl	Ascorbic acid
			<ul style="list-style-type: none"> ☐ Analytical reagent grade, crystalline powder, 25 g/bottle
20	2	pc	Beaker
			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	1	btl	Boric acid, AR
			Certified molecular biology grade
			Suitable for electrophoresis, ≥99.5%
			Size: 500g per bottle
22	2	btl	Buffer solution, pH 7, 1000 ml.
23	1	btl	Cadmium Nitrate Standard for the AAS, 500cc/btl
24	2	btl	Calcium Chloride Dihydrate
			<ul style="list-style-type: none"> ☐ Branding the chemical to be purchase is following the protocol set for the project's protocol and standards
			<ul style="list-style-type: none"> ☐ Chemical must be plant tissue culture tested for at least 20 years
			<ul style="list-style-type: none"> ☐ ISO complaint
			<ul style="list-style-type: none"> ☐ ACS REAG
			<ul style="list-style-type: none"> ☐ PH EUR
			<ul style="list-style-type: none"> ☐ meets USP Standards
			<ul style="list-style-type: none"> ☐ Bioreagent suitable for cell culture
			<ul style="list-style-type: none"> ☐ 500g
25	3	btl	Calcium Nitrate standard for Tissue Culture, Analytical reagent
26	1	btl	Cesium Chloride
			CAS: 7647-17-8
			Form: Colourless or white deliquescent crystals or powder or beads or chunk
			Pack Size: 25g/btl

			<i>Packaging Type: glass bottle</i>
			<i>Grade: AR quality</i>
27	1	btl	Cobalt chloride (CoCl ₂ , 6H ₂ O) suitable for plant cell and tissue culture
			■ <i>Molecular weight: 249.6</i>
			■ <i>500g/btl</i>
28	5	pc	Compound Binocular Microscope
			<i>Head: 45° Inclined Binocular, 360° rotation</i>
			<i>Eyepiece: 10x Wide Field Eyepiece</i>
			<i>Nosepiece: 4 Position</i>
			<i>Optical Magnification Range: 40 to 1000x</i>
			<i>Objectives: 4x, 10x, 40x, 100x</i>
			<i>- Achromatic Optics</i>
			<i>Mechanical Stage/ Slide Holder: 5.5 x 5.5 inches</i>
			<i>Focusing: Coarse and Fine</i>
			<i>Illumination: Halogen Illumination</i>
			<i>Dimmer: Yes</i>
			<i>Body Frame: Metal frame with Gray Finish</i>
			<i>Weight: Approximately 12.3 lb / 5.5 kg</i>
29	1	btl	Copper sulfate, CuSO ₄
			■ <i>Anhydrous, Analytical reagent grade, 500g/bottle</i>
30	1	unit	Dial Instant-Read Kitchen Thermometer (Bimetal)
			<i>Reads in 15-20 seconds</i>
			<i>Place 2 - 2 1/2 deep in the thickest part of food</i>
			<i>Can be used in roasts, casseroles, and soups</i>
			<i>Temperature is averaged along probe, from tip to 2-3" up the stem</i>
			<i>Cannot measure thin foods unless inserted sideways</i>
			<i>Not designed to remain in food while it is cooking</i>
			<i>Use to check the internal temperature of a food at the end of cooking time</i>
			<i>Can be calibrated</i>
31	1	btl	Dimethyl sulfoxide (DMSO), MBG
			■ <i>Molecular Biology Grade (MBG) DMSO</i>
			■ <i>Suitable for Molecular Applications</i>
			■ <i>Nuclease-Free DMSO</i>
			■ <i>DNase-Free, RNase-Free, Protease-Free, Phosphatase-Free</i>
			■ <i>Bottle of at least 500mL</i>
32	1	btl	DTPA (Diethylenetriaminepentacetic acid), AR, 250g./btl.
33	3	unit	Electric Compound Binocular Microscope (4)
			■ <i>Objective Lenses: DIN standard Achromat 4x, 10x, 40xR, 100xR oil immersion objectives are parfocalled, parcentered, color coded and mounted in reverse facing quadruple;</i>
			■ <i>Eyepieces: Wide field 10x eyepieces, FN18. Interpupillary adjustment 55-75mm. Eyepiece can be fitted with a 20mm diameter reticle</i>

			<ul style="list-style-type: none"> ■ Total Magnification: 40x, 100x, 400x, 1000x
			<ul style="list-style-type: none"> ■ Specimen Stage: Large 125mm x 115mm stage, with built-in mechanical stage. Mechanical stage provides X-Y movement of 55mm x 75mm
			<ul style="list-style-type: none"> ■ 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
			<ul style="list-style-type: none"> ■ Condenser: Abbe NA 1.25 condenser with iris diaphragm and filter holder for 32mm filter
			<ul style="list-style-type: none"> ■ Illumination: 1W LED illumination with on/off switch with intensity control. Corded microscope is voltage sensing 100~240V
			<ul style="list-style-type: none"> ■ Warranty: 5-year warranty, excluding LED bulb
			<ul style="list-style-type: none"> ■ Includes: Dust cover and blue filter
34	2	set	ELECTRONIC THEODOLITE
			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

			<i>Power Supply</i>
			- Battery: 7.4V, Lithium battery, 8 hrs
			<i>Working Environment</i>
			- Weight: 4.7kg
			<i>Dimension</i>
			- Size: 165*160*340mm
			- Range: -20 °C~ +50 °C
35	1	unit	Essential Line Analytical Balance
			<i>Features:</i>
			<i>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</i>
			<i>Operating Conditions</i>
			<i>Maximum Weighing Capacity: 220 g Operating Conditions - Temperature: +10 – +30 °C Power Requirements</i>
			<i>Power Requirements: 100 – 240 VAC, ±10%, 50 – 60 Hz, 0.2 A</i>
			<i>Power Requirements (Secondary): 15 VDC, ±5%, 0.53 A</i>
			<i>Packaging: 400 × 525 × 495 mm</i>
			<i>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</i>
36	1	btl	Ethylenediaminetetraacetic acid disodium salt (Na ₂ -EDTA) suitable for plant cell and tissue culture
			<i>500 grams/btl</i>
37	1	btl	Ferrous Sulphate
			☐Analytical Grade
			☐500grams/btl
38	4	box	Gloves, Nitrile, Large
			☐Glove Type: Chemical Resistant Disposable Gloves
			☐Glove Material: Nitrile
			☐Powder-Free
			☐1 box of 100 or 50 pairs
			☐Food Safe
			☐Size: large
39	1	btl	Glycine
			☐Molecular biology, ≥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	2	pc	good quality Scalpel Handle #3
			<i>stainless steel scalpel handle is used with scalpel blade # 11</i>
			<i>It has a curved cutting edge and a flat, notched back for a more secure hold</i>
			<i>It is used for plant tissue culture</i>
			<i>Good quality</i>
41	2	pc	Holder scalpel # 4
			<i>stainless steel scalpel handle is used with scalpel blade # 22</i>
			<i>It has a curved cutting edge and a flat, notched back for a more secure hold</i>
			<i>It is used for plant tissue culture</i>
			<i>Good quality</i>
42	1	btl	Hydrochloric acid, HCl
			<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>
43	1	btl	Indoleacetic acid (IAA) suitable for plant cell and tissue culture (5g)
44	1	btl	indolebutyric acid (IBA)
			<i>Suitable for plant tissue culture 5 gms/btl</i>
45	1	btl	Kinetin, 5grms/btl
			<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	1	btl	Kjelcat Tablets
			<i>KJELCAT-tablets, tin of 1000 pcs</i>
			<i>5g K₂SO₄ + .5g CuSO₄ x 5H₂O</i>
47	3	btl	Magnesium Sulphate (MgSO ₄ .7H ₂ O) suitable for plant cell and tissue culture
			<i>Wt. 169.01</i>
			<i>Colourless efflorescent crystals</i>
			<i>500 grams</i>
48	1	set	Magnetic Bar Set
			<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	1	btl	Manganese sulfate (MnSO ₄ , H ₂ O) suitable for plant cell and tissue culture
			<i>500 grams</i>

50	1	btl	Molybdic acid (sodium salt) (Na ₂ MoO ₄ , 2H ₂ O) suitable for plant cell and tissue culture
			500grams, AR;
51	1	unit	Multiparameter ph/ORP/EC/TDS/Salinity/DO/Pressure/Temperature Waterproof Meter
			<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>
			<i>The graphic display allows for the use of virtual keys to provide for an intuitive user interface</i>
			<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>
			<i>Quick Connect digital Probe-The probe features a quick connect DIN connector that makes a waterproof connection with the meter.</i>
			<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>
			<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>
			<i>Automatic temperature compensation-Integrated temperature sensor allows for automatic temperature compensation of pH, conductivity and dissolved oxygen measurements</i>
			<i>Automatic Barometric pressure compensation-The meter features a built-in barometer with user selectable units for dissolved oxygen pressure compensation</i>
			<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>
			<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,</i>

			<i>buffers/standards used for calibration, and slope characteristics</i>
			<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>
			<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>
			<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>
			<i>PC Connectivity- Logged data can be transferred to the Window's compatible PC with the included micro USB cable and software</i>
			<i>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</i>
			<i>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.</i>
52	1	btl	Myo-inositol suitable for plant cell and tissue culture (100gms)
53	1	btl	Naphthaleneacetic Acid, 5g
			☐ 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	1	btl	Nicotinic acid suitable for plant cell and tissue culture (100g)
55	10000	pc	NYLON/PE (Vacuum Sealable Plastic)
			<i>Material specification = NYLON/PE (Vacuum Sealable Plastic)</i>
			<i>Thickness (microns) +/- 5% = 80</i>
			<i>Variant = Flat pouch - back seal (w/o zip)</i>
			<i>Size = 20*23 cm</i>
			<i>No. of colors = 4</i>
56	1	roll	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft

57	50	pc	Pasteur pipette
			<i>Specifications</i>
			<i>230mm Overall Length, 108mm Tip Length, 120 mm Body Length,</i>
			<i>Type 1 Clear Glass</i>
			<i>Non-sterile</i>
			<i>Max dispensing volume : 2mL</i>
			<i>No graduations</i>
58	1	btl	pH 4 Buffer
			<i>Laboratory gradeSize: 1L per bottle</i>
59	2	pc	Pipettor Tip Box
			<i>Pipette Pipettor Tip Box, 200UL, 96holes;</i>
60	2	pc	Plastic Graduated Cylinder
			<i>Capacity : 50ml</i>
			<i>Material : Plastic</i>
			<i>Color : Translucent</i>
			<i>Shape : Cylindrical</i>
			<i>Tolerance : 1ml</i>
			<i>Graduated in milliliters : 1ml</i>
61	1	lot	PLN 100x Objective Lens and Fluorescent Microspheres
			<i>1. PLN 100x Objective Lens</i>
			<i>compatible with Euromex OX.2453-PLPHF</i>
			<i>Compatible Cover Glass Thickness (mm): N/A</i>
			<i>Field of View (mm): 0.22</i>
			<i>Focal Length FL (mm): 1.8</i>
			<i>Model Number: 1-U2B235</i>
			<i>Length excluding Threads (mm): 44.7</i>
			<i>Magnification: 100X</i>
			<i>Maximum Diameter (mm): 24</i>
			<i>Numerical Aperture NA: 1.25</i>
			<i>Mounting Threads: RMS / 20.32mm x 36 TPI</i>
			<i>Compatible Tube Lens Focal Length (mm):</i>
			<i>Focal Length: 180mm</i>
			<i>Type: Microscope Objective</i>
			<i>Weight (g): 114</i>
			<i>Working Distance (mm): 0.15</i>
			<i>Resolving Power (μm): 0.27</i>
			<i>Depth of Field (μm): 0.27</i>
			<i>Field Number (mm): 22</i>
			<i>Parfocal Length (mm): 45</i>
			<i>Style: Infinity Corrected</i>
			<i>Manufacturer: Olympus</i>
			<i>Immersion Liquid: Oil</i>
			<i>Depth of Focus (μm): 1760</i>
			<i>2. Fluorescent microspheres (Catalog Code.: FS03F)- 1 pc</i>

			Diameter= 0.50 um
			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 um
			Volume= 1 ml
			Blue Excitation= 465- 495 nm
			Particle density- 1.06 g/cm ³
			Fluorescence color- Green (450 nm, 510 nm)
62	2	btl	Potassium iodide, KI
			■Analytical reagent grade, powder, 500g/bottle
63	2	pack	Potassium Nitrate
			■AR grade
			■Formula: KNO ₃
			■Molar wt: 101.1032 g/mo
			■1kg/pack
64	3	btl	Potassium phosphate monobasic, KH ₂ PO ₄
			Analytical grade
			Use for enzyme buffers and chemical assays
			Bottle of 500g
65	1	btl	Pyridoxine.HCl suitable for plant cell and tissue culture(25g)
66	1	pc	Quartz Crucible
			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	2	pc	Retriever
			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	1	pc	Shower and eyewash
			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	2	btl	Sodium Hexametaphosphate, 500g
70	3	btl	Sodium Hydroxide, AR 500G
			■500 g/bottle, AR, Pellets;
71	20	unit	Stainless Steel Milk Canister, 20L capacity
			Stainless steel dairy equipment
			Have side handles
			Umbrella shaped lid
			20 litre: 20cm neck, 45cm high
72	50	unit	Stainless Steel Milk Pail, 10Liter Capacity
			Stainless Steel
			Volume :10 L
			Diameter: 30 cm
			Weight: 1.25 kg
			Height: 27.2 cm
73	1	pc	Steel Storage Cabinet for Glasswares
			■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	1	pack	Surgical Blade # 11 (100's)
			• Carbon steel
			• Stainless steel
			• Individually packed on sterile pouches
			• Disposable ✓Sold per box (100's)
			Good Quality
75	1	pack	Surgical Blade # 22 (100's)
			• Carbon steel
			• Stainless steel
			• Individually packed on sterile pouches
			• Disposable ✓Sold per box (100's)
			Good quality
76	5	pc	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
			■Stainless steel;
77	3	pc	Test Tube Rack, 20 mm x 24 tubes

			<ul style="list-style-type: none"> ☐Stainless Steel, 20 mm diameter holes, capacity 24 test tubes
78	1	btl	Thiamine.HCl suitable for plant cell and tissue culture (25gms)
79	2	pc	Thumb Tissue Forcep for Dissection
			<i>Features:</i>
			<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	1	liter	Triethanolamine, AR
81	1	btl	Tween 80, 500ml/bot
			<i>Tween 80 (polysorbate 80, polyoxyethylene sorbitan monooleate) is</i>
			<i>non-ionic surfactant used for plant tissue culture.</i>
82	5	pc	Volumetric Flask 100ml
			☐100 mL (± 0.01 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
83	5	pc	Volumetric Flask 50ml
			☐50mL, (± 1 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
84	1	pc	Vortex Mixer
			<i>S-0200- VX-200 Vortex Mixer;</i>
85	9	pc	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality);
86	10	unit	Weighing Scale Flat, 50 kg
87	1	btl	Zinc sulfate (ZnSO ₄ , 7H ₂ O) suitable for plant cell and tissue culture
			☐molecular weight: 287.54
			☐500grams
88	2	pc	Graduated Cylinder, Plastic, 1000mL
			Plastic, 1000ml (1L) capacity for Particle Size Analysis
89	2	pc	Mini Light Meter
			<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>
			<i>Battery: 3x 1.5V (AAA)</i>
			<i>Power: 0.45W</i>
			<i>Handheld</i>

			Data Hold
			LCD Backlight
			Auto power off
			Overload and low battery indicator
90	2	L	Infrared Loop sterilizer
			<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	1	pc	Portable pH Meter with Temperature probe
92	1	set	Microscope Cleaning Kit
			5-piece set:
			-blower brush
			-lens cleaning fluid
			-lint-free lens paper
			-soft lens cloth
			- lint-free cleaning swabs
93	1	unit	Soil Tension Meter
			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	1	btl	Colchicine suitable for plant cell and tissue culture (1g)
95	1	bag	Paraffin Wax
			■Form: pellets, white
			■Ign residue: ≤0.05%
			■Melting point: 43-95 degrees celsius
			■Solidification point: 54-56 degree celcius 1kg per bag
96	2	pc	Fluorescent Polystyrene Beads (Catalog No.: 2104)
			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	4	pc	DIVE BOOTIES
			HI CUT WITH LOCK AFTER ZIPPER
			CRESS HIT CUT SIZES 7 (2 PAIRS)
			SIZE 8 (2 PAIRS)
98	1	pc	Cadmium(Cd), Uncoded hollow cathode
			Cadmium(Cd), Uncoded hollow cathode lamp for Agilent AAS 200.
99	1	btl	Compost certified reference material
			certified /Matrix reference Material for Compost
			AgroMAT CP-1 Standard Compost (100g)
			Cat No. 140-025-111
			Supplier: SCP Science Canada
100	1	pc	Filter Cartridge for water purification system
			Filter cartridge for Thermo-Fischer Scientific water

			<i>purification system</i>
			<i>Cat No. 09.2005</i>
101	1	pc	Iron(Fe) hollow cathode lamp
			<i>Iron (Fe) hollow cathode, Uncoded for Agilent AAS 200.</i>
102	1	pc	Lead(Pb), hollow cathode lamp
			<i>Lead (Pb), Uncoded Lamp for Agilent AAS 220.</i>
103	1	pc	Magnesium (Mg), Hollow cathode lamp
			<i>Magnesium (Mg), Uncoded hollow cathode lamp for Agilent AAS 200.</i>
104	1	pc	Manganese (Mn, Uncoded hollow cathode lamp
			<i>Manganese(Mn), Uncoded Hollow cathode lamp for Agilent AAS 200.</i>
105	1	pc	Nickel(Ni), Hollow cathode lamp
			<i>Nickel(Ni), Uncoded hollow cathode lamp</i>
106	1	btl	Plant tissue certified reference material
			<i>certified reference material for plant tissue</i>
			<i>Hay Powder (30 g), BCR- 129</i>
			<i>Supplier : European Commission</i>
107	1	pc	Sodium (Na), Hollow cathode lamp
			<i>Sodium (Na), Uncoded hollow cathode lamp for Agilent AAS 200.</i>
108	1	btl	Standard certified reference material for Sandy Soil
			<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	1	pc	variable mechanical pipettor, 1-5 mL
			<i>variable mechanical pipettor, , 0.5 -5 ml, good quality, standard tips</i>
110	1	btl	Plain Polystyrene Microspheres Cat. No.: 112
			<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>
			<i>Color: None</i>
			<i>Target Mean Diameter : 1 µm</i>
			<i>Actual Mean Diameter: 0.953 µm</i>
			<i>Standard diameter: 0.195 µm</i>
			<i>Number of Spheres (per mL): 2.10E+10</i>
			<i>Anti-microbial agent: 2mM NaN3</i>
			<i>Media: 0.1% Tween 20 in DI Water</i>
			<i>Solid content: 1%</i>
			<i>Storage: 2-8 °C</i>
111	1	set	Veterinary Endoscope
			<i>Insertion tube: Charge-coupled device (CCD) chip (video-endoscope); Biopsy/suction channel; Irrigation/insufflation</i>

			<i>channel; Deflection control cables</i>
			<i>Handpiece: Deflection control knobs; Accessory channel entrance; Irrigation/insufflation; Suction valves</i>
112	2	pack	Antimicrobial Susceptibility Test Discs, Amoxicillin 20µg Clavulanic Acid 10µg, 50discs/pack
113	3	pack	Antimicrobial Susceptibility Test Discs, Gentamicin 10mcg, 100discs/pack
114	1	pc	Apron
			☐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	1	pc	Autoclave Tape
			☐turns black at 250°F,
			☐width - ¾ inch
			☐length- minimum of 60 yards
116	2	pc	Brush Suitable for 100mL Graduated
			☐Bristle Material: Black Nylon
			☐Suitable for 100mL Graduated Cylinders
117	1	pc	Burette Brush
			☐big size for 50 mL burette
118	2	btl	Canada Balsam, for microscopy, 100ml
119	1	set	Digital Weighing Scale, 50kg
			☐1g accuracy
			☐maximum of 50 kg
			☐materials: metal
120	1	btl	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl
			<i>Analytical Reagent, 500g/btl</i>
121	2	roll	Garbage bag green (large) 10pcs/roll (pk of 10)
122	2	roll	Garbage bag green (medium) 25 pcs/roll (pk of 10)
123	1	btl	Giemsa stain set
			<i>Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml</i>
124	1	pc	Lab Gown Long Sleeves L
			☐Lab Coat High-quality White
			☐Size- Large; long sleeves
125	1	pc	Lab Gown Long Sleeves M
			☐Lab Coat High-quality White
			☐Long Sleeves
			☐Medium size
126	1	unit	Laboratory Safety Goggles
			<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	1	btl	Lactose Broth
			500g
128	2	pack	Lens Tissues, 25 Sheets per Booklet, 5 Booklets
129	6	btl	Methanol 2.5L
			<i>Analytical Reagent Grade 2.5L per bottle</i>
130	6	pack	Paraffin, Tissue Embedding Medium, Kg
			<i>Tissue Embedding Wax, Medium</i>
			<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>
131	6	pc	Plastic Sharps Waste Container
			<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	1	btl	Potassium phosphate dibasic, K ₂ HPO ₄
			<i>Analytical grade</i>
			<i>Use for enzyme buffers and chemical assays</i>
			<i>Bottle of 500g</i>
133	1	btl	Sodium phosphate monobasic, NaH ₂ PO ₄
			500g
134	2	box	Rectangular coverslip, 100/box
			<i>Clear glass</i>
			<i>Rectangular</i>
			<i>W x L: 11mm X22</i>
			<i>Thickness: 0.13-0.16mm</i>
135	2	pack	Resealable Plastic Bag, Large
			■resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack
136	1	btl	Sabouraud Dextrose Agar
			500g
137	1	btl	Sodium Tellurite at least 10 grams per bottle
			<i>Component of the Baird Parker Agar used in identifying Staph. aureus</i>
138	10	pcs	Storage Tray
			■Tray basket organizer
			■Product Dimension: L(19.3cm), W(24.5cm), H(6.5cm)
			■Plastic, any color
139	1	bag	Transparent ziplock bags (20 x 30cm), 100pc/bag
140	1	btl	Violet Red Bile Agar
			500g

141	1	btl	Wright Stain
			<i>Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml</i>
142	1	pc	Analytical Balance (500/0.001 g)
143	4	pc	Brush Suitable for cleaning 500mL Erlenmeyer Flask
			☐ <i>Bristle Color: White Bristle</i>
			☐ <i>Brush+Handle Length: 14"</i>
			☐ <i>Brush Diameter: 1 1/2"</i>
			☐ <i>Brush Length: 4"</i>
			☐ <i>Suitable for cleaning 500mL Erlenmeyer Flask</i>
144	1	set	Haemocytometer Counting Chamber
			<i>Material: colorless glass</i>
			<i>Has two wells</i>
			<i>Used for cell counting</i>
			<i>Includes pipettes for RBC and WBC</i>
145	1	set	McMaster Counting Slides
			<i>Count nematode egg</i>
			<i>Egg per gram sensitivity: 25 EPG</i>
			<i>Grid size: 1 cm x 1 cm</i>
			<i>Volume under grid: 0.15 ml</i>
			<i>Material: Acrylic</i>
146	3	unit	Mortar and Pestle, Heavy Duty
			☐ <i>Mortars with spout</i>
			☐ <i>Material: Porcelain for both mortar and pestle</i>
			☐ <i>Inside grinding surface unglazed</i>
			☐ <i>Capacity: 145 mL, 90 x 70 mm</i>
			☐ <i>Heat and cold resistant</i>
147	6	pc	Stirring Rod
			☐ <i>Standard Size</i>
			☐ <i>Good Quality</i>
			☐ <i>with rubber policeman</i>
148	2	pc	Water Quality Test Meter
			☐ <i>2 in 1 kit, with calibration packets and user's manual</i>
			◀ <i>1 TDS meter</i>
			◀ <i>1 pH meter</i>
			☐ <i>Hand-held and portable, pen-sized</i>
			☐ <i>Color: yellow (pH) + blue (TDS)</i>
			☐ <i>Material: plastic + metal</i>
			☐ <i>Size: length 15.4cm</i>
			☐ <i>Accurate reading</i>
			☐ <i>Good quality</i>
			☐ <i>Durable</i>
149	1	set	WHITLOCK UNIVERSAL McMaster slide
			<i>For nematode egg counting</i>
			<i>Capacity: 4 chamber X 0.5ml</i>
150	6	pcs	250 ml Type 1, class A borosilicate glass Beaker

151	1	box	Aluminum weighing dish
			100/pk, 20mL capacity
			Brand: Generic
152	1	pc	ASTM No. 100 Standard test sieve
			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	1	pc	ASTM No. 230 standard test sieve
			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	2	pc	Beaker Glass/borosilicate
			600 mL glass beaker
			Short Form, wide mouth with pout
155	6	pc	Beaker, Glass, 100mL
			●100mL capacity, borosilicate glass
156	1	btl	Ethanol
			●AR, at least 95%v/v, 4L
157	1	btl	Glacial Acetic Acid
			●Analytical Reagent grade 2.5L per bottle
158	2	ltr	Graduated Cylinder
			10-100 mL Translucent Plastic Graduated Cylinder
159	2	ltr	Graduated Cylinder 10mL (Translucent Plastic)
			1-10 mL graduated cylinder (Translucent Plastic)
160	1	btl	Iodine crystals
			Analytical Grade resublimed, 500g per bottle
161	1	unit	Mini Electric bean grinder
			Material : Stainless steel
			Power : 150W Voltage : 220V/50HZ
			Capacity : 50-400ML about 150G food
			Size : Diameter 10.5cm Height 17cm
162	1	pc	Mortar and Pestle (small)
163	1	btl	Potassium Hydroxide
			●Flakes
			●Analytical Grade
			●1kg
164	1	btl	Potassium iodide, KI
			●Analytical reagent grade, powder, 500g/bottle
165	1	btl	Potato Amylose (Type III)
			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
			<i>Packaging Information</i>
			<i>5 g in poly bottle</i>
166	1	unit	High Duty Blender
			-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	2	pc	Kitchen type stainless steel strainer
			<i>Steel Strainer Dimension</i>
			<i>8cm L8.5xW22xH4cm</i>
168	1	unit	Compact Bench Scale
			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	1	pc	Pen type pH Meter
			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: $\pm 0.6^{\circ}\text{C}$, $\pm 1.0^{\circ}\text{F}$ for 0.0 to 50.0°C; $\pm 1.1^{\circ}\text{C}$, $\pm 1.9^{\circ}\text{F}$ 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	1	pc	Stainless Cassava Grater
			<i>Item dimension</i>
			<i>10x5x2.5 inches</i>
171	20	pcs	DIAL THERMOMETER
			<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>

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

			Glass alcohol burner for lab and craft
			Height(mm):118
			Dimension: 6cm x 16cm x 9cm
178	10	pcs	Test tube Clamp/Holder
			<i>6.25 inches long with finger grips</i>
			<i>Holds any size test tube.</i>
179	15	pc	Test Tube Rack 50pcs socket
			<i>Holds 50 test tubes</i>
			<i>Color white</i>
			<i>Material: Plastic</i>
180	75	pc	Test Tube with Screw Cap
			<i>Borosilicate 3.3 glass test tubes with screw cap</i>
			<i>Capacity 10ml</i>
			<i>Length x OD: 150 x 25mm</i>
			<i>Round bottom</i>
			<i>Includes bakelite screw cap with rubber liner</i>
			<i>Excellent resistance to heat and chemicals</i>
			<i>Tube and cap are autoclavable</i>
			<i>13x100mm 10mL capacity</i>
181	6	pc	Beaker, Glass, 250mL
			☐ <i>Low Form Beaker</i>
			☐ <i>Borosilicate Glass</i>
			☐ <i>Transparent Beaker</i>
			☐ <i>Thickened With Spout</i>
182	6	pcs	Erlenmeyer Flask, Glass, 250mL
			☐ <i>Material: Borosilicate Glass</i>
			☐ <i>Good Quality</i>
			<i>Rebidding (from VSU-GOODS-23-30)</i>
183	5	pcs	Test Tube Racks, 12mm x 12 Holes
			<i>Stainless Steel Holes Test Tube Rack</i>
184	10	pcs	10 ml Type 1, class A borosilicate glass Graduated Cylinder
185	10	pcs	Graduated Cylinder, Glass, 100mL
			☐ <i>Type 1, Class A Borosilicate Glass</i>
186	5	pc	Aluminum Burette Clip Titration Clamp
			<i>compatible with the 50 ml capacity Glass Burette</i>
			<i>materials is Aluminum</i>
187	5	pcs	Hot Plate
			☐ <i>79-1 1000ml Hot Plate Magnetic Stirrer Lab Heating Speed Control Mixer 220V AU Plug</i>
188	10	pc	Laboratory Burette Stand
			☐ <i>Standard laboratory burette stand</i>
			☐ <i>Good quality White PE Burette Stand</i>
			☐ <i>Heavy duty white polyethylene burette stand comes with a polyethylene coated metal rod which screws into the base.</i>
			☐ <i>Whichever is available, with the hole in the center</i>

			<i>(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).</i>
189	10	pc	Burette with Rubber Tube, stopper and dropper
			■ <i>Burette with Rubber Tube, stopper and dropper</i>
			■ <i>Material: Glass/Borosilicate Glass</i>
			■ <i>Capacity: 50mL</i>
			■ <i>For Base</i>
190	10	pc	Triple Beam Balance
			■ <i>Capacity - 2610g</i>
			■ <i>Readability - 0.1g</i>
			■ <i>Repeatability - 0.2g</i>
			■ <i>Pan size - 152mm ø</i>
191	1	unit	Microscope temperature stage Peltier System
			<i>compatible with Euromex OX.2453-PLPHF</i>
			<i>Specifications</i>
			<i>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:</i>
			<i>Sample area 35 x 32mm</i>
			<i>5mm aperture</i>
			<i>Heating/Cooling rate 0.1 to 20°C/min</i>
			<i>Temperature Range -25°C to 120°C</i>
			<i>Control and Stability +/- 0.1°C</i>
			<i>Pt100 temperature sensor</i>
			<i>LCD touch screen control</i>
			<i>DC power control</i>
			<i>RS232 and USB connectivity</i>
			<i>Minimum objective working distance 0.1mm</i>
			<i>Minimum condenser working distance 5mm</i>
			<i>Stage size 105 x 150mm</i>
			<i>PE120XY stage size 160 x 110mm</i>
192	1	unit	Two channel programmable syringe pump
			<i>Holds 2 Syringes up to 60 mL each, can be different sizes</i>
			<i>Both syringes operate in sync. Independent syringe operation, including "Push-Pull", available with the Dual Pump System.</i>
			<i>Infusion rates from 1.436 µL/hr (1 mL syringe) to 7515 mL/hr (60 mL syringe)</i>
			<i>Easy-to-use keypad interface</i>
			<i>One-click program upload from "Pumping Program Generator" spreadsheet</i>
			<i>Space Saving Chassis: Foot print size of only 5 3/4" x 8 3/4"</i>
			<i>Won't take up unnecessary space on your laboratory or production bench</i>

			<i>Input voltage: 220 V AC</i>
			<i>Output voltage: 12 V DC</i>
193	1	lot	PLN 100x Objective Lens and Fluoro-Max Dyed Green Aqueous Fluorescent Particles
			<i>1. PLN 100x Objective Lens</i>
			<i>compatible with Euromex OX.2453-PLPHF</i>
			<i>Compatible Cover Glass Thickness (mm): N/A</i>
			<i>Field of View (mm): 0.22</i>
			<i>Focal Length FL (mm): 1.8</i>
			<i>Model Number: 1-U2B235</i>
			<i>Length excluding Threads (mm): 44.7</i>
			<i>Magnification: 100X</i>
			<i>Maximum Diameter (mm): 24</i>
			<i>Numerical Aperture NA: 1.25</i>
			<i>Mounting Threads: RMS / 20.32mm x 36 TPI</i>
			<i>Compatible Tube Lens Focal Length (mm):</i>
			<i>Focal Length: 180mm</i>
			<i>Type: Microscope Objective</i>
			<i>Weight (g): 114</i>
			<i>Working Distance (mm): 0.15</i>
			<i>Resolving Power (μm): 0.27</i>
			<i>Depth of Field (μm): 0.27</i>
			<i>Field Number (mm): 22</i>
			<i>Parfocal Length (mm): 45</i>
			<i>Style: Infinity Corrected</i>
			<i>Manufacturer: Olympus</i>
			<i>Immersion Liquid: Oil</i>
			<i>Depth of Focus (μm): 1760</i>
			<i>2. Fluoro-Max Dyed Green Aqueous Fluorescent Particles</i>
			<i>Specifications:</i>
			<i>Diameter= 0.10 μm</i>
			<i>Quantity= 15 ml</i>
			<i>Additive: Trace amounts of surfactant to inhibit agglomeration and promote stability</i>
			<i>Concentration: 1% solids</i>
			<i>Contents: Dyed polystyrene microspheres in water</i>
			<i>Color: Green</i>
			<i>Material: Polystyrene</i>
			<i>Product Type: Fluorescent Particle</i>
			<i>Dye Type: Firefli™ Fluorescent Green (468/508nm)</i>
			<i>Includes: Package Insert Sheet</i>
			<i>Particle Density : 1.05g/cm³</i>
			<i>Quantity: 15ml</i>
			<i>Refractive Index: 1.59 at 589nm (25°C)</i>
			<i>Stability: Product stable for a minimum of 24 months</i>
			<i>Uniformity: <10%</i>

			<i>Diameter (Metric) Mean: 0.1 µm</i>
			<i>Diameter (Metric) Nominal: 0.1 µm</i>
			<i>Diameter (Metric): 0.10 µm</i>
			<i>Unit Size: Each</i>
194	4	btl	Low melting point Agarose Powder 125 g
			<i>Gelling Temp: 36.0-36.5 °C</i>
			<i>Moisture Content: 3.29%</i>
			<i>Sulfate: 0.096%</i>
			<i>EEO (-mr): 0.12</i>
			<i>Gel Strength: 1230g/cm²</i>
			<i>RNase/DNase Activity: None Detected</i>
195	4	btl	CTAB
			<i>500g, AR</i>
196	1	roll	Vinyl Sheet
			<i>Transparent</i>
			<i>1.5mm thickness</i>
			<i>10 meters</i>
197	1	btl	Isopropanol
			<i>Molecular grade/DNA Extraction</i>
			<i>In 2.5 L Amber bottle</i>
198	10	pc	Amber Reagent Bottle, 500mL
			<i>With Stopper/Screw Cap</i>
			<i>Material: Glass/Borosilicate Glass</i>
			<i>Capacity: 500mL</i>
199	5	pack	200 µL pipette tips (Yellow or clear)
			<i>200 µL pipette tips (Yellow) at least 1000 pcs. per pack</i>
200	10	packs	Casein
			<i>Food grade casein 1kg/pack</i>
			<i>25 cm² with Blue Plug Seal Screw Cap, 50 ml capacity</i>
201	2	pack	Autoclavable Plastic bag
			<i>12x24 inches 100 pcs / pack 2mm thickness</i>
202	3	btls	Hydrochloric acid, HCl
			<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>
203	4	btls	Taq Mastermix
			<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	10	tubes	Proteinase K (1ml)
			<i>1ml/ tube Molecular Grade</i>
205	1	unit	(mini) gel documentation system viewer
			<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)</i>

			with Ultrathin LED Illuminator system
			Power voltage: 220-240v
206	3	pcs	Scalpel Handle
			■#4, Stainless steel;
207	2	box	Scalpel Blade
			■Stainless steel
			■100 blades/box
208	3	kilos	Agar Agar
209	1	pc	Pressure Canner/ Steam Sterilizer (Non Electric)
			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	3	unit	Hand Soil Auger
			■Material: stainless steel
			■Auger length: 25cm
			■Length: 0.5m

			External Diameter: 38mm
211	1	pc	Infrared Thermometer for Food
			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	1	btl	Potassium dichromate, AR Grade
			500 grams/poly bottle
213	2	btl	Sodium Hexametaphosphate, 500g
214	1	btls	Sulfuric acid, H ₂ SO ₄
			Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle;
215	1	pc	Digital Caliper
			brand new accurate high quality Stainless steel Vernier Calliper (millimeter and inches size) size:12"(0-300mm) high in quality genuine product Digital Calliper

Section VII. Technical Specifications

Technical Specifications

Item #	Qty	Unit	Description	Statement of Compliance
1	1	pack	0.5-10 μ L pipette tips (white)	[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]
			<i>0.5-10 μL pipette tips (white) at least 1000 pcs/pack</i>	
2	30	pc	100 ml Type 1, class A borosilicate glass Beaker	
3	1	pack	1000 μ L pipette tips (Blue)	
			■ <i>1000 μL pipette tips (Blue) at least 1000 pcs/pack;</i>	
4	2	pc	1000mL Beaker Plastic	
			<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 (°C): 120</i>	
			<i>Handle: Yes</i>	
5	24	pc	125 ml Erlenmeyer flask	
			<i>70980-125- 125 ml Erlenmeyer flask;</i>	
6	1	btl	2,4-Dichlorophenoxyacetic acid, 250grams/btl	
			<i>2,4-Dichlorophenoxyacetic acid plant growth regulator 2,4-D used for</i>	
			<i>Plant tissue culture</i>	
7	2	pack	200 μ L pipette tips (Yellow)	
			<i>200 μL pipette tips (Yellow) at least 1000 pcs. per pack</i>	
8	3	pc	250 mm glass stirring rod	
9	5	box	3 layer Non-woven surgical face mask, at least 50 pcs. per box	
10	3	pc	30 ml Rubber Aspirator suction	
11	10	pc	50 ml Type 1, class A borosilicate glass Beaker	
12	1	pack	Activated Charcoal suitable for plant cell and tissue culture (500g)/pack	
13	1	btl	Agar for plant cell and tissue culture	
			<i>500grms/btl</i>	
14	1	gal	Alcohol, Ethyl, 95% (Tech)	
15	2	pack	Ammonium Acetate, AR, 500g	
16	1	btl	Ammonium Flouride	
			■ <i>White crystalline</i>	
			■ <i>ACS reagent, \geq98.0%</i>	
			■ <i>500g/btl</i>	
17	2	pack	Ammonium Nitrate	
			■ <i>AR grade; at least 98% purity</i>	
			■ <i>Molecular Wt. 80.043 grams per mol.</i>	

			☐1kg/pack
18	2	btl	Ammonium Sulfate, 500g/btl.
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
19	2	btl	Ascorbic acid
			☐Analytical reagent grade, crystalline powder, 25 g/bottle
20	2	pc	Beaker
			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	1	btl	Boric acid, AR
			Certified molecular biology grade
			Suitable for electrophoresis, ≥99.5%
			Size: 500g per bottle
22	2	btl	Buffer solution, pH 7, 1000 ml.
23	1	btl	Cadmium Nitrate Standard for the AAS, 500cc/btl
24	2	btl	Calcium Chloride Dihydrate
			☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards
			☐Chemical must be plant tissue culture tested for at least 20 years
			☐ISO complaint
			☐ACS REAG
			☐PH EUR
			☐meets USP Standards
			☐Bioreagent suitable for cell culture
			☐500g
25	3	btl	Calcium Nitrate standard for Tissue Culture, Analytical reagent
26	1	btl	Cesium Chloride
			CAS: 7647-17-8
			Form: Colourless or white deliquescent crystals or powder or beads or chunk
			Pack Size: 25g/btl

			<i>Packaging Type: glass bottle</i>
			<i>Grade: AR quality</i>
27	1	btl	Cobalt chloride (CoCl ₂ , 6H ₂ O) suitable for plant cell and tissue culture
			■ <i>Molecular weight: 249.6</i>
			■ <i>500g/btl</i>
28	5	pc	Compound Binocular Microscope
			<i>Head: 45° Inclined Binocular, 360° rotation</i>
			<i>Eyepiece: 10x Wide Field Eyepiece</i>
			<i>Nosepiece: 4 Position</i>
			<i>Optical Magnification Range: 40 to 1000x</i>
			<i>Objectives: 4x, 10x, 40x, 100x</i>
			<i>- Achromatic Optics</i>
			<i>Mechanical Stage/ Slide Holder: 5.5 x 5.5 inches</i>
			<i>Focusing: Coarse and Fine</i>
			<i>Illumination: Halogen Illumination</i>
			<i>Dimmer: Yes</i>
			<i>Body Frame: Metal frame with Gray Finish</i>
			<i>Weight: Approximately 12.3 lb / 5.5 kg</i>
29	1	btl	Copper sulfate, CuSO ₄
			■ <i>Anhydrous, Analytical reagent grade, 500g/bottle</i>
30	1	unit	Dial Instant-Read Kitchen Thermometer (Bimetal)
			<i>Reads in 15-20 seconds</i>
			<i>Place 2 - 2 1/2 deep in the thickest part of food</i>
			<i>Can be used in roasts, casseroles, and soups</i>
			<i>Temperature is averaged along probe, from tip to 2-3" up the stem</i>
			<i>Cannot measure thin foods unless inserted sideways</i>
			<i>Not designed to remain in food while it is cooking</i>
			<i>Use to check the internal temperature of a food at the end of cooking time</i>
			<i>Can be calibrated</i>
31	1	btl	Dimethyl sulfoxide (DMSO), MBG
			■ <i>Molecular Biology Grade (MBG) DMSO</i>
			■ <i>Suitable for Molecular Applications</i>
			■ <i>Nuclease-Free DMSO</i>
			■ <i>DNase-Free, RNase-Free, Protease-Free, Phosphatase-Free</i>
			■ <i>Bottle of at least 500mL</i>
32	1	btl	DTPA (Diethylenetriaminepentacetic acid), AR, 250g./btl.
33	3	unit	Electric Compound Binocular Microscope (4)
			■ <i>Objective Lenses: DIN standard Achromat 4x, 10x, 40xR, 100xR oil immersion objectives are parfocalled, parcentered, color coded and mounted in reverse facing quadruple;</i>
			■ <i>Eyepieces: Wide field 10x eyepieces, FN18.</i>

			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	2	set	ELECTRONIC THEODOLITE
			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

			<i>Display Unit</i>
			- Type: 2.7 Inch LCD screen
			<i>Power Supply</i>
			- Battery: 7.4V, Lithium battery, 8 hrs
			<i>Working Environment</i>
			- Weight: 4.7kg
			<i>Dimension</i>
			- Size: 165*160*340mm
			- Range: -20 °C~ +50 °C
35	1	unit	Essential Line Analytical Balance
			<i>Features:</i>
			<i>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</i>
			<i>Operating Conditions</i>
			<i>Maximum Weighing Capacity: 220 g Operating Conditions - Temperature: +10 – +30 °C Power Requirements</i>
			<i>Power Requirements: 100 – 240 VAC, ±10%, 50 – 60 Hz, 0.2 A</i>
			<i>Power Requirements (Secondary): 15 VDC, ±5%, 0.53 A</i>
			<i>Packaging: 400 × 525 × 495 mm</i>
			<i>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</i>
36	1	btl	Ethylenediaminetetraacetic acid disodium salt (Na2-EDTA) suitable for plant cell and tissue culture
			500 grams/btl
37	1	btl	Ferrous Sulphate
			☐Analytical Grade
			☐500grams/btl
38	4	box	Gloves, Nitrile, Large
			☐Glove Type: Chemical Resistant Disposable Gloves
			☐Glove Material: Nitrile
			☐Powder-Free
			☐1 box of 100 or 50 pairs
			☐Food Safe

			<ul style="list-style-type: none"> ■ Size: large
39	1	btl	Glycine
			<ul style="list-style-type: none"> ■ Molecular biology, ≥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	2	pc	good quality Scalpel Handle #3
			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	2	pc	Holder scalpel # 4
			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	1	btl	Hydrochloric acid, HCl
			Analytical reagent grade, concentrated, 2.5L/bottle
43	1	btl	Indoleacetic acid (IAA) suitable for plant cell and tissue culture (5g)
44	1	btl	indolebutyric acid (IBA)
			Suitable for plant tissue culture 5 gms/btl
45	1	btl	Kinetin, 5grms/btl
			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).
46	1	btl	Kjelcat Tablets
			KJELCAT-tablets, tin of 1000 pcs
			5g K ₂ SO ₄ + .5g CuSO ₄ x 5H ₂ O
47	3	btl	Magnesium Sulphate (MgSO ₄ .7H ₂ O) suitable for plant cell and tissue culture
			Wt. 169.01
			Colourless efflorescent crystals
			500 grams
48	1	set	Magnetic Bar Set
			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
49	1	btl	Manganese sulfate (MnSO ₄ , H ₂ O) suitable for plant cell and tissue culture
			500 grams
50	1	btl	Molybdic acid (sodium salt) (Na ₂ MoO ₄ , 2H ₂ O) suitable for plant cell and tissue culture
			500grams, AR;
51	1	unit	Multiparameter ph/ORP/EC/TDS/Salinity/DO/Pressure/Temperature Waterproof Meter
			<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>
			<i>The graphic display allows for the use of virtual keys to provide for an intuitive user interface</i>
			<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>
			<i>Quick Connect digital Probe-The probe features a quick connect DIN connector that makes a waterproof connection with the meter.</i>
			<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>
			<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>
			<i>Automatic temperature compensation-Integrated temperature sensor allows for automatic temperature compensation of pH, conductivity and dissolved oxygen measurements</i>
			<i>Automatic Barometric pressure compensation-The meter features a built-in barometer with user selectable units for dissolved oxygen pressure compensation</i>
			<i>Standard or quick calibration-Quick calibration provides a speedy, single-point calibration for pH,</i>

			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
			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
			Data Logging-Allows users to store up to 45,000 continuous log-on demand samples with logging intervals from one second to three hours
			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.
			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.
			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	1	btl	Myo-inositol suitable for plant cell and tissue culture (100gms)
53	1	btl	Naphthaleneacetic Acid, 5g
			☐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	1	btl	Nicotinic acid suitable for plant cell and tissue culture (100g)
55	10000	pc	NYLON/PE (Vacuum Sealable Plastic)
			<i>Material specification = NYLON/PE (Vacuum Sealable Plastic)</i>
			<i>Thickness (microns) +/- 5% = 80</i>
			<i>Variant = Flat pouch - back seal (w/o zip)</i>
			<i>Size = 20*23 cm</i>
			<i>No. of colors = 4</i>
56	1	roll	Parafilm M PM-996 All Purpose Laboratory Film Parafilm sealing film 4 x 125ft
57	50	pc	Pasteur pipette
			<i>Specifications</i>
			<i>230mm Overall Length, 108mm Tip Length, 120 mm Body Length,</i>
			<i>Type 1 Clear Glass</i>
			<i>Non-sterile</i>
			<i>Max dispensing volume : 2mL</i>
			<i>No graduations</i>
58	1	btl	pH 4 Buffer
			<i>Laboratory gradeSize: 1L per bottle</i>
59	2	pc	Pipettor Tip Box
			<i>Pipette Pipettor Tip Box, 200UL, 96holes;</i>
60	2	pc	Plastic Graduated Cylinder
			<i>Capacity : 50ml</i>
			<i>Material : Plastic</i>
			<i>Color : Translucent</i>
			<i>Shape : Cylindrical</i>
			<i>Tolerance : 1ml</i>
			<i>Graduated in milliliters : 1ml</i>
61	1	lot	PLN 100x Objective Lens and Fluorescent Microspheres
			<i>1. PLN 100x Objective Lens</i>
			<i>compatible with Euromex OX.2453-PLPHF</i>
			<i>Compatible Cover Glass Thickness (mm): N/A</i>
			<i>Field of View (mm): 0.22</i>
			<i>Focal Length FL (mm): 1.8</i>
			<i>Model Number: 1-U2B235</i>
			<i>Length excluding Threads (mm): 44.7</i>
			<i>Magnification: 100X</i>
			<i>Maximum Diameter (mm): 24</i>
			<i>Numerical Aperture NA: 1.25</i>
			<i>Mounting Threads: RMS / 20.32mm x 36 TPI</i>
			<i>Compatible Tube Lens Focal Length (mm):</i>
			<i>Focal Length: 180mm</i>

			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
			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	2	btl	Potassium iodide, KI
			■ Analytical reagent grade, powder, 500g/bottle
63	2	pack	Potassium Nitrate
			■ AR grade
			■ Formula: KNO_3
			■ Molar wt: 101.1032 g/mo
			■ 1kg/pack
64	3	btl	Potassium phosphate monobasic, KH_2PO_4
			Analytical grade
			Use for enzyme buffers and chemical assays
			Bottle of 500g
65	1	btl	Pyridoxine.HCl suitable for plant cell and tissue culture(25g)
66	1	pc	Quartz Crucible
			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	2	pc	Retriever

			<i>Magnetic stir bar retriever</i>
			<i>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</i>
			<i>Size : Length 250 mm</i>
			<i>Material : Steel & PTFE (Polytetrafluoroethylene)</i>
			<i>Color: White</i>
68	1	pc	Shower and eyewash
			<i>Stainless Steel Shower & Eyewash Station.</i>
			<i>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).</i>
69	2	btl	Sodium Hexametaphosphate, 500g
70	3	btl	Sodium Hydroxide, AR 500G
			■500 g/bottle, AR, Pellets;
71	20	unit	Stainless Steel Milk Canister, 20L capacity
			<i>Stainless steel dairy equipment</i>
			<i>Have side handles</i>
			<i>Umbrella shaped lid</i>
			<i>20 litre: 20cm neck, 45cm high</i>
72	50	unit	Stainless Steel Milk Pail, 10Liter Capacity
			<i>Stainless Steel</i>
			<i>Volume :10 L</i>
			<i>Diameter: 30 cm</i>
			<i>Weight: 1.25 kg</i>
			<i>Height: 27.2 cm</i>
73	1	pc	Steel Storage Cabinet for Glasswares
			■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	1	pack	Surgical Blade # 11 (100's)
			• Carbon steel
			• Stainless steel
			• Individually packed on sterile pouches
			• Disposable ✓Sold per box (100's)
			Good Quality
75	1	pack	Surgical Blade # 22 (100's)
			• Carbon steel
			• Stainless steel
			• Individually packed on sterile pouches
			• Disposable ✓Sold per box (100's)
			Good quality
76	5	pc	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
			■Stainless steel;
77	3	pc	Test Tube Rack, 20 mm x 24 tubes
			■Stainless Steel, 20 mm diameter holes, capacity 24 test tubes
78	1	btl	Thiamine.HCl suitable for plant cell and tissue culture (25gms)
79	2	pc	Thumb Tissue Forcep for Dissection
			Features:
			Stainless Steel Matte Finish Autoclavable Available in Serrated or 1x2
			teeth: 8 inches long
			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.
80	1	liter	Triethanolamine, AR
81	1	btl	Tween 80, 500ml/bot
			Tween 80 (polysorbate 80, polyoxyethylene sorbitan monooleate) is
			non-ionic surfactant used for plant tissue culture.
82	5	pc	Volumetric Flask 100ml
			■100 mL (±0.01 mL)
			■Borosilicate glass with glass standard taper stopper,
			■Class A
			■Calibrated
83	5	pc	Volumetric Flask 50ml
			■50mL, (±1mL)
			■Borosilicate glass with glass standard taper stopper,
			■Class A
			■Calibrated

84	1	pc	Vortex Mixer
			<i>S-0200- VX-200 Vortex Mixer;</i>
85	9	pc	Wash Bottle, 250mL cap.
			■ <i>Material: Plastic (good quality);</i>
86	10	unit	Weighing Scale Flat, 50 kg
87	1	btl	Zinc sulfate (ZnSO ₄ , 7H ₂ O) suitable for plant cell and tissue culture
			■ <i>molecular weight: 287.54</i>
			■ <i>500grams</i>
88	2	pc	Graduated Cylinder, Plastic, 1000mL
			Plastic, 1000ml (1L) capacity for Particle Size Analysis
89	2	pc	Mini Light Meter
			<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>
			<i>Battery: 3x 1.5V (AAA)</i>
			<i>Power: 0.45W</i>
			<i>Handheld</i>
			<i>Data Hold</i>
			<i>LCD Backlight</i>
			<i>Auto power off</i>
			<i>Overload and low battery indicator</i>
90	2	L	Infrared Loop sterilizer
			<i>Infrared Loop Sterilizer DS900, 220v laboratory electric heating high temperature, disinfection infrared sterilizer, used to disinfect or sterilize inoculating loops/needles for isolating microorganisms</i>
91	1	pc	Portable pH Meter with Temperature probe
92	1	set	Microscope Cleaning Kit
			5-piece set:
			-blower brush
			-lens cleaning fluid
			-lint-free lens paper
			-soft lens cloth
			- lint-free cleaning swabs
93	1	unit	Soil Tension Meter
			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 ±0.3%

			FS/ °C, Span : less than $\pm 0.01\%$ FS/ °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 °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: $\pm 1.0\%$ or better, $\pm 1.5\%$ or better
94	1	btl	Colchicine suitable for plant cell and tissue culture (1g)
95	1	bag	Paraffin Wax
			■Form: pellets, white
			■Ign residue: $\leq 0.05\%$

			■Melting point: 43-95 degrees celsius
			■Solidification point: 54-56 degree celcius1kg per bag
96	2	pc	Fluorescent Polystyrene Beads (Catalog No.: 2104)
			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	4	pc	DIVE BOOTIES
			HI CUT WITH LOCK AFTER ZIPPER
			CRESS HIT CUT SIZES 7 (2 PAIRS)
			SIZE 8 (2 PAIRS)
98	1	pc	Cadmium(Cd), Uncoded hollow cathode
			Cadmium(Cd), Uncoded hollow cathode lamp for Agilent AAS 200.
99	1	btl	Compost certified reference material
			certified /Matrix reference Material for Compost
			AgroMAT CP-1 Standard Compost (100g)
			Cat No. 140-025-111
			Supplier: SCP Science Canada
100	1	pc	Filter Cartridge for water purification system
			Filter cartridge for Thermo-Fischer Scientific water purification system
			Cat No. 09.2005
101	1	pc	Iron(Fe) hollow cathode lamp
			Iron (Fe) hollow cathode, Uncoded for Agilent AAS 200.
102	1	pc	Lead(Pb), hollow cathode lamp
			Lead (Pb), Uncoded Lamp for Agilent AAS 220.
103	1	pc	Magnesium (Mg), Hollow cathode lamp
			Magnesium (Mg), Uncoded hollow cathode lamp for Agilent AAS 200.
104	1	pc	Manganese (Mn, Uncoded hollow cathode lamp
			Manganese(Mn), Uncoded Hollow cathode lamp for Agilent AAS 200.
105	1	pc	Nickel(Ni), Hollow cathode lamp
			Nickel(Ni), Uncoded hollow cathode lamp
106	1	btl	Plant tissue certified reference material
			certified reference material for plant tissue
			Hay Powder (30 g), BCR- 129
			Supplier : European Commission
107	1	pc	Sodium (Na), Hollow cathode lamp
			Sodium (Na), Uncoded hollow cathode lamp for Agilent AAS 200.

108	1	btl	Standard certified reference material for Sandy Soil
			<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	1	pc	variable mechanical pipettor, 1-5 mL
			<i>variable mechanical pipettor, , 0.5 -5 ml, good quality, standard tips</i>
110	1	btl	Plain Polystyrene Microspheres Cat. No.: 112
			<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>
			<i>Color: None</i>
			<i>Target Mean Diameter : 1 µm</i>
			<i>Actual Mean Diameter: 0.953 µm</i>
			<i>Standard diameter: 0.195 µm</i>
			<i>Number of Spheres (per mL): 2.10E+10</i>
			<i>Anti-microbial agent: 2mM NaN3</i>
			<i>Media: 0.1% Tween 20 in DI Water</i>
			<i>Solid content: 1%</i>
			<i>Storage: 2-8 °C</i>
111	1	set	Veterinary Endoscope
			<i>Insertion tube: Charge-coupled device (CCD) chip (video-endoscope); Biopsy/suction channel; Irrigation/insufflation channel; Deflection control cables</i>
			<i>Handpiece: Deflection control knobs; Accessory channel entrance; Irrigation/insufflation; Suction valves</i>
112	2	pack	Antimicrobial Susceptibility Test Discs, Amoxicillin 20µg Clavulanic Acid 10µg, 50discs/pack
113	3	pack	Antimicrobial Susceptibility Test Discs, Gentamicin 10mcg, 100discs/pack
114	1	pc	Apron
			■ <i>Heavy Duty Industrial Chemical Laboratory Apron</i>
			■ <i>Material: Neoprene</i>
			■ <i>Color : Black</i>
			■ <i>Chemical Resistant (Suitable protection against wide range of chemicals)</i>
			■ <i>Light weight</i>
			■ <i>Sizes : at least 35" X 43"</i>
115	1	pc	Autoclave Tape
			■ <i>turns black at 250°F,</i>
			■ <i>width - ¾ inch</i>
			■ <i>length- minimum of 60 yards</i>
116	2	pc	Brush Suitable for 100mL Graduated

			<ul style="list-style-type: none"> ■ <i>Bristle Material: Black Nylon</i>
			<ul style="list-style-type: none"> ■ <i>Suitable for 100mL Graduated Cylinders</i>
117	1	pc	Burette Brush
			<ul style="list-style-type: none"> ■ <i>big size for 50 mL burette</i>
118	2	btl	Canada Balsam, for microscopy, 100ml
119	1	set	Digital Weighing Scale, 50kg
			<ul style="list-style-type: none"> ■ <i>1g accuracy</i>
			<ul style="list-style-type: none"> ■ <i>maximum of 50 kg</i>
			<ul style="list-style-type: none"> ■ <i>materials: metal</i>
120	1	btl	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl
			<i>Analytical Reagent, 500g/btl</i>
121	2	roll	Garbage bag green (large) 10pcs/roll (pk of 10)
122	2	roll	Garbage bag green (medium) 25 pcs/roll (pk of 10)
123	1	btl	Giemsa stain set
			<i>Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml</i>
124	1	pc	Lab Gown Long Sleeves L
			<ul style="list-style-type: none"> ■ <i>Lab Coat High-quality White</i>
			<ul style="list-style-type: none"> ■ <i>Size- Large; long sleeves</i>
125	1	pc	Lab Gown Long Sleeves M
			<ul style="list-style-type: none"> ■ <i>Lab Coat High-quality White</i>
			<ul style="list-style-type: none"> ■ <i>Long Sleeves</i>
			<ul style="list-style-type: none"> ■ <i>Medium size</i>
126	1	unit	Laboratory Safety Goggles
			<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	1	btl	Lactose Broth
			500g
128	2	pack	Lens Tissues, 25 Sheets per Booklet, 5 Booklets
129	6	btl	Methanol 2.5L
			<i>Analytical Reagent Grade 2.5L per bottle</i>
130	6	pack	Paraffin, Tissue Embedding Medium, Kg
			<i>Tissue Embedding Wax, Medium</i>
			<i>Pure Paraffin wax with Added Polymer for precise embedding and sectioning</i>
131	6	pc	Plastic Sharps Waste Container
			<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>

			2L: app.14.5cmx13.5cm/5.71inx5.31in
			4L: app.18.5cmx17.5cm/7.28inx6.89in
132	1	btl	Potassium phosphate dibasic, K ₂ HPO ₄
			Analytical grade
			Use for enzyme buffers and chemical assays
			Bottle of 500g
133	1	btl	Sodium phosphate monobasic, NaH ₂ PO ₄
			500g
134	2	box	Rectangular coverslip, 100/box
			Clear glass
			Rectangular
			W x L: 11mm X22
			Thickness: 0.13-0.16mm
135	2	pack	Resealable Plastic Bag, Large
			resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack
136	1	btl	Sabouraud Dextrose Agar
			500g
137	1	btl	Sodium Tellurite at least 10 grams per bottle
			Component of the Baird Parker Agar used in identifying <i>Staph. aureus</i>
138	10	pcs	Storage Tray
			Tray basket organizer
			Product Dimension: L(19.3cm), W(24.5cm), H(6.5cm)
			Plastic, any color
139	1	bag	Transparent ziplock bags (20 x 30cm), 100pc/bag
140	1	btl	Violet Red Bile Agar
			500g
141	1	btl	Wright Stain
			Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml
142	1	pc	Analytical Balance (500/0.001 g)
143	4	pc	Brush Suitable for cleaning 500mL Erlenmeyer Flask
			Bristle Color: White Bristle
			Brush+Handle Length: 14"
			Brush Diameter: 1 1/2"
			Brush Length: 4"
			Suitable for cleaning 500mL Erlenmeyer Flask
144	1	set	Haemocytometer Counting Chamber
			Material: colorless glass
			Has two wells
			Used for cell counting
			Includes pipettes for RBC and WBC
145	1	set	McMaster Counting Slides
			Count nematode egg

			<i>Egg per gram sensitivity: 25 EPG</i>
			<i>Grid size: 1 cm x 1 cm</i>
			<i>Volume under grid: 0.15 ml</i>
			<i>Material: Acrylic</i>
146	3	unit	Mortar and Pestle, Heavy Duty
			☐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	6	pc	Stirring Rod
			☐Standard Size
			☐Good Quality
			☐with rubber policeman
148	2	pc	Water Quality Test Meter
			☐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	1	set	WHITLOCK UNIVERSAL McMaster slide
			<i>For nematode egg counting</i>
			<i>Capacity: 4 chamber X 0.5ml</i>
150	6	pcs	250 ml Type 1, class A borosilicate glass Beaker
151	1	box	Aluminum weighing dish
			<i>100/pk, 20mL capacity</i>
			<i>Brand: Generic</i>
152	1	pc	ASTM No. 100 Standard test sieve
			<i>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.</i>
			<i>Features:</i>
			<i>Individually serial numbered</i>
			<i>Compliant with ASTM E11 requirements for Compliance Sieves</i>
			<i>Included Items:</i>

			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	1	pc	ASTM No. 230 standard test sieve
			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	2	pc	Beaker Glass/borosilicate
			600 mL glass beaker

			<i>Short Form, wide mouth with pout</i>
155	6	pc	Beaker, Glass, 100mL
			■100mL capacity, borosilicate glass
156	1	btl	Ethanol
			■AR, at least 95%v/v, 4L
157	1	btl	Glacial Acetic Acid
			■Analytical Reagent grade 2.5L per bottle
158	2	ltr	Graduated Cylinder
			10-100 mL Translucent Plastic Graduated Cylinder
159	2	ltr	Graduated Cylinder 10mL (Translucent Plastic)
			1-10 mL graduated cylinder (Translucent Plastic)
160	1	btl	Iodine crystals
			Analytical Grade resublimed, 500g per bottle
161	1	unit	Mini Electric bean grinder
			Material : Stainless steel
			Power : 150W Voltage : 220V/50HZ
			Capacity : 50-400ML about 150G food
			Size : Diameter 10.5cm Height 17cm
162	1	pc	Mortar and Pestle (small)
163	1	btl	Potassium Hydroxide
			■Flakes
			■Analytical Grade
			■1kg
164	1	btl	Potassium iodide, KI
			■Analytical reagent grade, powder, 500g/bottle
165	1	btl	Potato Amylose (Type III)
			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	1	unit	High Duty Blender
			-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	2	pc	Kitchen type stainless steel strainer
			Steel Strainer Dimension
			8cm L8.5xW22xH4cm
168	1	unit	Compact Bench Scale
			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	1	pc	Pen type pH Meter
			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	1	pc	Stainless Cassava Grater
			<i>Item dimension</i>
			<i>10x5x2.5 inches</i>
171	20	pcs	DIAL THERMOMETER
			<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>
			<i>FEATURES / BENEFITS</i>
			<i>NSF Certified</i>
			<i>Dishwasher safe</i>
			<i>Shatterproof lens</i>
			<i>Magnified dial</i>
			<i>Protective sheath included</i>
172	10	unit	Flat Plate Weighing Scale, 30KG
			<i>Table Scale, Large, Mechanical Dial Type, Legal for Trade, Anti-Bacterial Powder Coat, Flat Plate</i>

			Capacity: 30 kg
			Graduation / Readability: 0.1 kg
			Type: Mechanical
173	55	pc	MILK PAIL STAINLESS, 5 Liter Capacity
			<i>Ideal for Milk for calves, food or for milk processing.</i>
			<i>Fully Stainless steel food grade bucket.</i>
			<i>Inside and outside high-gloss polished</i>
			<i>Graduation in litres</i>
			<i>Holds 5 litres</i>
174	50	pcs	STAINLESS FUNNEL
			<i>DIM: 16 X 19 CM</i>
			<i>Made of stainless steel, durable and easy to clean</i>
175	50	can	Stainless Steel Milk Canister, 10L capacity
			<i>Material: 304 SS (AISI)</i>
			<i>Grade: AISI</i>
			<i>Capacity: 10L</i>
			<i>Overall Height: 229mm</i>
			<i>Overall Width: 292mm</i>
			<i>Overall Length:229mm</i>
			<i>Thickness:1.2mm</i>
			<i>Suitable: Carrying Milk</i>
			<i>Packing: 1 Pcs</i>
			<i>Weight: 1.4kg</i>
176	6	unit	Impulse Plastic Band Sealer,300mm for PP/PE Bags
			<i>PFS-300</i>
			<i>Impulse power: 400W</i>
			<i>Voltage: 220V</i>
			<i>Frequency: 50- 60Hz</i>
			<i>Heat Time: 0.3 - 2.5s</i>
			<i>Sealing Length: 300MM</i>
			<i>Sealing Width: 2mm/0.1 inch</i>
			<i>Max Sealing Thickness: 0.2mm</i>
			<i>Main Material: ABS</i>
			<i>Good quality</i>
177	10	pc	LABORATORY ALCOHOL LAMP PLASTIC COVER
			Alcohol Burner Lamp
			Capacity: 50ml
			Glass alcohol burner for lab and craft
			Height(mm):118
			Dimension: 6cm x 16cm x 9cm
178	10	pcs	Test tube Clamp/Holder
			<i>6.25 inches long with finger grips</i>
			<i>Holds any size test tube.</i>
179	15	pc	Test Tube Rack 50pcs socket

			<i>Holds 50 test tubes</i>
			<i>Color white</i>
			<i>Material: Plastic</i>
180	75	pc	Test Tube with Screw Cap
			<i>Borosilicate 3.3 glass test tubes with screw cap</i>
			<i>Capacity 10ml</i>
			<i>Length x OD: 150 x 25mm</i>
			<i>Round bottom</i>
			<i>Includes bakelite screw cap with rubber liner</i>
			<i>Excellent resistance to heat and chemicals</i>
			<i>Tube and cap are autoclavable</i>
			<i>13x100mm 10mL capacity</i>
181	6	pc	Beaker, Glass, 250mL
			☐ <i>Low Form Beaker</i>
			☐ <i>Borosilicate Glass</i>
			☐ <i>Transparent Beaker</i>
			☐ <i>Thickened With Spout</i>
182	6	pcs	Erlenmeyer Flask, Glass, 250mL
			☐ <i>Material: Borosilicate Glass</i>
			☐ <i>Good Quality</i>
			<i>Rebidding (from VSU-GOODS-23-30)</i>
183	5	pcs	Test Tube Racks, 12mm x 12 Holes
			<i>Stainless Steel Holes Test Tube Rack</i>
184	10	pcs	10 ml Type 1, class A borosilicate glass Graduated Cylinder
185	10	pcs	Graduated Cylinder, Glass, 100mL
			☐ <i>Type 1, Class A Borosilicate Glass</i>
186	5	pc	Aluminum Burette Clip Titration Clamp
			<i>compatible with the 50 ml capacity Glass Burette</i>
			<i>materials is Aluminum</i>
187	5	pcs	Hot Plate
			☐ <i>79-1 1000ml Hot Plate Magnetic Stirrer Lab Heating Speed Control Mixer 220V AU Plug</i>
188	10	pc	Laboratory Burette Stand
			☐ <i>Standard laboratory burette stand</i>
			☐ <i>Good quality White PE Burette Stand</i>
			☐ <i>Heavy duty white polyethylene burette stand comes with a polyethylene coated metal rod which screws into the base.</i>
			☐ <i>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).</i>
189	10	pc	Burette with Rubber Tube, stopper and dropper
			☐ <i>Burette with Rubber Tube, stopper and dropper</i>
			☐ <i>Material: Glass/Borosilicate Glass</i>

			<ul style="list-style-type: none"> ■ Capacity: 50mL
			<ul style="list-style-type: none"> ■ For Base
190	10	pc	Triple Beam Balance
			<ul style="list-style-type: none"> ■ Capacity - 2610g
			<ul style="list-style-type: none"> ■ Readability - 0.1g
			<ul style="list-style-type: none"> ■ Repeatability - 0.2g
			<ul style="list-style-type: none"> ■ Pan size - 152mm ø
191	1	unit	Microscope temperature stage Peltier System
			<i>compatible with Euromex OX.2453-PLPHF</i>
			<i>Specifications</i>
			<i>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:</i>
			<i>Sample area 35 x 32mm</i>
			<i>5mm aperture</i>
			<i>Heating/Cooling rate 0.1 to 20°C/min</i>
			<i>Temperature Range -25°C to 120°C</i>
			<i>Control and Stability +/- 0.1°C</i>
			<i>Pt100 temperature sensor</i>
			<i>LCD touch screen control</i>
			<i>DC power control</i>
			<i>RS232 and USB connectivity</i>
			<i>Minimum objective working distance 0.1mm</i>
			<i>Minimum condenser working distance 5mm</i>
			<i>Stage size 105 x 150mm</i>
			<i>PE120XY stage size 160 x 110mm</i>
192	1	unit	Two channel programmable syringe pump
			<i>Holds 2 Syringes up to 60 mL each, can be different sizes</i>
			<i>Both syringes operate in sync. Independent syringe operation, including "Push-Pull", available with the Dual Pump System.</i>
			<i>Infusion rates from 1.436 µL/hr (1 mL syringe) to 7515 mL/hr (60 mL syringe)</i>
			<i>Easy-to-use keypad interface</i>
			<i>One-click program upload from "Pumping Program Generator" spreadsheet</i>
			<i>Space Saving Chassis: Foot print size of only 5 3/4" x 8 3/4"</i>
			<i>Won't take up unnecessary space on your laboratory or production bench</i>
			<i>Input voltage: 220 V AC</i>
			<i>Output voltage: 12 V DC</i>
193	1	lot	PLN 100x Objective Lens and Fluoro-Max Dyed Green Aqueous Fluorescent Particles
			<i>1. PLN 100x Objective Lens</i>

			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
			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
			Immersion Liquid: Oil
			Depth of Focus (μm): 1760
			2. Fluoro-Max Dyed Green Aqueous Fluorescent Particles
			Specifications:
			Diameter= 0.10 μm
			Quantity= 15 ml
			Additive: Trace amounts of surfactant to inhibit agglomeration and promote stability
			Concentration: 1% solids
			Contents: Dyed polystyrene microspheres in water
			Color: Green
			Material: Polystyrene
			Product Type: Fluorescent Particle
			Dye Type: Firefli™ Fluorescent Green (468/508nm)
			Includes: Package Insert Sheet
			Particle Density : 1.05g/cm ³
			Quantity: 15ml
			Refractive Index: 1.59 at 589nm (25°C)
			Stability: Product stable for a minimum of 24 months
			Uniformity: <10%
			Diameter (Metric) Mean: 0.1 μm
			Diameter (Metric) Nominal: 0.1 μm

			<i>Diameter (Metric): 0.10 µm</i>
			<i>Unit Size: Each</i>
194	4	btl	Low melting point Agarose Powder 125 g
			<i>Gelling Temp: 36.0-36.5 °C</i>
			<i>Moisture Content: 3.29%</i>
			<i>Sulfate: 0.096%</i>
			<i>EEO (-mr): 0.12</i>
			<i>Gel Strength: 1230g/cm2</i>
			<i>RNase/DNase Activity: None Detected</i>
195	4	btl	CTAB
			<i>500g, AR</i>
196	1	roll	Vinyl Sheet
			<i>Transparent</i>
			<i>1.5mm thickness</i>
			<i>10 meters</i>
197	1	btl	Isopropanol
			<i>Molecular grade/DNA Extraction</i>
			<i>In 2.5 L Amber bottle</i>
198	10	pc	Amber Reagent Bottle, 500mL
			<i>With Stopper/Screw Cap</i>
			<i>Material: Glass/Borosilicate Glass</i>
			<i>Capacity: 500mL</i>
199	5	pack	200 µL pipette tips (Yellow or clear)
			<i>200 µL pipette tips (Yellow) at least 1000 pcs. per pack</i>
200	10	packs	Casein
			<i>Food grade casein 1kg/pack</i>
			<i>25 cm² with Blue Plug Seal Screw Cap, 50 ml capacity</i>
201	2	pack	Autoclavable Plastic bag
			<i>12x24 inches 100 pcs / pack 2mm thickness</i>
202	3	btls	Hydrochloric acid, HCl
			<i>Analytical reagent grade, concentrated, 2.5L/bottle</i>
203	4	btls	Taq Mastermix
			<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	10	tubes	Proteinase K (1ml)
			<i>1ml/ tube Molecular Grade</i>
205	1	unit	(mini) gel documentation system viewer
			<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</i>

			(H) with Ultrathin LED Illuminator system
			Power voltage: 220-240v
206	3	pcs	Scalpel Handle
			■#4, Stainless steel;
207	2	box	Scalpel Blade
			■Stainless steel
			■100 blades/box
208	3	kilos	Agar Agar
209	1	pc	Pressure Canner/ Steam Sterilizer (Non Electric)
			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	3	unit	Hand Soil Auger
			■Material: stainless steel
			■Auger length: 25cm

			<ul style="list-style-type: none"> ■Length: 0.5m
			<ul style="list-style-type: none"> ■External Diameter: 38mm
211	1	pc	Infrared Thermometer for Food
			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	1	btl	Potassium dichromate, AR Grade
			■500 grams/poly bottle
213	2	btl	Sodium Hexametaphosphate, 500g
214	1	btls	Sulfuric acid, H ₂ SO ₄
			■Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle;
215	1	pc	Digital Caliper
			brand new accurate high quality Stainless steel Vernier Calliper (millimeter and inches size) size:12"(0-300mm) high in quality genuine product Digital Calliper

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

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

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid in the amount of *at least 50% of the ABC or at least Two Million Three Hundred Sixty Two Thousand Three Hundred Forty Four and 50/100 Pesos (PhP 2,362,344.50)*;
or
Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC or at least Two Million Three Hundred Sixty Two Thousand Three Hundred Forty Four and 50/100 Pesos (PhP 2,362,344.50)*; and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least One Million One Hundred Eighty One Thousand One hundred Seventy Two and 25/100 Pesos (PhP 1,181,172.25)*; **and**
- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- (e) Conformity with the Technical Specifications; **and**
- (f) Schedule of Requirements/production and delivery schedule; **and**
- (g) Manpower requirements; **and**
- (h) After-sales service/parts; **and**
- (i) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (j) The Supplier’s audited financial statements, showing, among others, the Supplier’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (k) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 4,724,689.00**);

or

A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation (at least 10% of ABC or **PhP 472,468.90**).

II. FINANCIAL COMPONENT ENVELOPE

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

**Guidelines on the Preparation of Electronic Bid (e-Bid)
(for bidders who prefer electronic bid submission)**

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

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
3. Statement of Bidder's Single Largest Completed Contract	SLCC
4. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
5. Bid Security	Bid Security
6. Technical Specifications	Technical Specifications

7. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
8. Manpower Requirements	Manpower Requirements
9. After Sales service/parts	After Sales
10. Omnibus Sworn Statement	Omnibus Sworn Statement
11. Audited Financial Statements	Audited Financial Statements
12. Net Financial Contracting Capacity	NFCC
13. Committed Line of Credit	CLC
14. Bid Form	Bid Form
15. Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under the Technical Component checklist as presented under Section VIII. The second folder should contain all requirements under the 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 Escala at leopoldo.escala@vsu.edu.ph before the deadline (October 04, 2023; 1:30 PM).



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