



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Laboratory Equipment, Supplies and Chemicals (VSU-GOODS-24-09) *(early procurement)*

Government of the Republic of the Philippines

**December 18, 2023; 9:00 AM
BAC Conference Room, VSU Market, Visca, Baybay City, Leyte
and via Zoom**

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

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

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

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

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid



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

- The *Visayas State University* through the *GF 2024* intends to apply the sum of *Four Million One Hundred Thousand Pesos (PhP 4,100,000.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Equipment, Supplies and Chemicals (VSU-GOODS-24-09)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University*, through the *GF 2024* 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	1 kb Plus DNA Ladder	btl	1	20,000.00	20,000.00
	☐1ml;				
2	100 ml Type 1, class A borosilicate glass Beaker	pc	2	500.00	1,000.00
3	1000- 10000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	unit	1	23,000.00	23,000.00
	Volume Range Min (uL): 1000				
	Volume Range Max (uL): 10000				
	Accuracy (%/uL): 0.5				
	Repeatability/Precision (%/uL): 0.2				
	Autoclavable: Yes				
4	1000 ml Type 1, class A borosilicate glass Beaker	pc	2	1,000.00	2,000.00
5	125 ml Erlenmeyer flask	pc	5	500.00	2,500.00
	70980-125- 125 ml Erlenmeyer flask;				
6	125 ml Erlenmeyer flask	pc	5	500.00	2,500.00
	70980-125- 125 ml Erlenmeyer flask;				
7	2 Unit of Digital Electric Stereo Microscope with Camera Lucida	lot	1	76,000.00	76,000.00
	Specifications:				
	HARDWARE				
	AR tilting trinocular tube SZX2-ARTTR • Angle of observation tube: 5 to 45 degrees				
	• Maximum power consumption: 10 W				
	• Interpupillary distance adjustment range: 57 to 80 mm				
	• Equipped with eyepiece clamping knob				
	• Light-path switching mechanism: present				
	• Eyepiece magnification: 1.25X; camera magnification: 1X				

	<ul style="list-style-type: none"> • Functions of buttons on the front panel: AR image brightness adjustment (7 levels) and AR image ON/OFF 				
	<ul style="list-style-type: none"> • Input connectors: HDMI x 1, USB 2.0 (Type-C) x 1, DC jack x 1 				
	<ul style="list-style-type: none"> • Drive voltage: AC 100–240 V (AC adaptor) 				
	<ul style="list-style-type: none"> • Camera lucida adapter: present 				
	<ul style="list-style-type: none"> • Camera lucida included: yes 				
	Zoom magnification sensor Main Functions:				
	<ul style="list-style-type: none"> • Set the zoom magnification (at click positions only) 				
	<ul style="list-style-type: none"> • Move slides created on the software forward and backward 				
	<ul style="list-style-type: none"> • Output connector: USB 2.0 Type-C 				
	Recording:				
	<ul style="list-style-type: none"> • File saving formats: mp4, mov; Video codec: H264 				
	<ul style="list-style-type: none"> • Audio format: MP3; Audio codec: mp3 				
8	2 Whole Plastinated Cat specimen ,1 Whole plastinated cat specimen,3D Cat Model,3D frog Anatomy,3D H	lot	1	90,000.00	90,000.00
	Specification:				
	> 2 Whole Plastinated Cat specimen -Dissected model exposing the anatomy of the neck, thoracic regions, abdominal organs, along with musculature of the upper forelimbs and hindlimbs				
	Approximate length: 14 to 18 inches				
	>1 Whole plastinated cat specimen Model showing superficial muscles of the cat				
	> 3D cat model- The 3D Cat Anatomy software is an interactive model that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption, or they can be removed to permit viewing of deeper structures.				
	> 3D frog anatomy. The 3D Frog Anatomy software is an interactive model of an American bullfrog (<i>Rana catesbeiana</i>) that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption, or they can be removed to permit viewing of deeper structures.				
	>3D Human Anatomy Introduction -The 3D Human Anatomy Introduction software consists of an interactive model of the human body, created				

	<i>especially for students, teachers and healthcare professionals.</i>				
	<i>>3D Bird Anatomy -The 3D Bird Anatomy software (desktop version) is an interactive anatomical model of a pigeon. This tool allows you to visualize bones, muscles and internal organs, as well as details of the bird's external anatomy.</i>				
	<i>>3D fish anatomy The 3D Fish Anatomy software is an interactive model of a perch (Perca flavens) that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption or removed to permit viewing of deeper structures.</i>				
9	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	pc	1	18,000.00	18,000.00
	<i>7030301016, 200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable</i>				
10	35 lab chairs , 5 aluminum shelves	lot	1	176,000.00	176,000.00
	35 pcs. Stacking Chair				
	<i>Width: 20 inches</i>				
	<i>Height: 32 1/2 inches</i>				
	<i>Arms: Without Arms</i>				
	<i>Assembled: Assemble Required</i>				
	<i>Back: With Back</i>				
	<i>Color: Black</i>				
	<i>Features: Stackable</i>				
	<i>Frame Color: Silver</i>				
	<i>Frame Material: Steel</i>				
	<i>Padded Seat: Without Padded Seat</i>				
	<i>Seat Material: Plastic</i>				
	<i>Shape: Rectangle</i>				
	<i>Style: Solid Back</i>				
	<i>Type: Chairs</i>				
	<i>Usage: Breakroom Indor</i>				
	5 pcs. 5-Layer Steel Cabinet with Glass Sliding Doors				
	<i>Product specifications</i>				
	<i>Color: Beige, Light Gray, Offwhite</i>				
	<i>Material/s Used: Ga24 Metal Sheet, Heavy Duty Ball Bearing Rollers, Powdercoated Painting Flnish</i>				
	<i>Dimension (WxDxH): 900X4000X1850</i>				
11	4-Nitrophenol or p-Nitrophenol	Vial	1	6,000.00	6,000.00
	<i>Analytical standard</i>				
	<i>Powder or crystal form</i>				
	<i>HPLC suitable</i>				
	<i>Vial of 1g</i>				

12	Electric Compound Binocular Microscopes (5 units)	lot	1	175,000.00	175,000.00
	<i>Item Specification</i>				
	●Objective Lenses: DIN standard Achromat 4x, 10x, 40xR, 100xR oil immersion objectives are parfocaled, 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				
13	500 ml Type 1, class A borosilicate glass Beaker	pc	2	700.00	1,400.00
14	Absolute Methanol - 99.5%	btl	6	5,000.00	30,000.00
	<i>Purity (GC): ≥ 99.5 %</i>				
	<i>1 bottle contains 1 liter</i>				
15	Acetone	gal	2	1,600.00	3,200.00
	●Acetone, Technical Grade				
	●1gal				
16	Agar Agar (atleast 500g/btl)	btl	1	7,000.00	7,000.00
17	Agar for plant cell and tissue culture	btl	3	7,500.00	22,500.00
	<i>500 grams;</i>				
18	Agarose, molbio grade, 100g/bot	btl	1	15,000.00	15,000.00
19	Alcohol, Denatured	gal	6	2,500.00	15,000.00
20	alpha-amylase from malt	btl	1	3,500.00	3,500.00
	<i>a - Amylase</i>				
	<i>SKU: GRM638</i>				
	<i>CAS No. : 9001-19-8</i>				
	<i>EC No. : 232-588-1 EC</i>				
	<i>index No : 647-016-00-X</i>				
	<i>Synonym : Diastase; 1,4-α-D-Glucan-glucanohydrolase</i>				
	<i>HS Code : 3507 90 62</i>				
	<i>Storage : 2 - 8°C</i>				
	<i>Shelf life : 3 years</i>				

22	Amber Reagent Bottle, 100mL <i>With Stopper/Screw Cap</i> <i>Material: Glass/Borosilicate Glass</i> <i>Capacity: 100mL</i>	pc	2	400.00	800.00
23	Amber Reagent Bottle, 1L <i>With Stopper/Screw Cap</i> <i>Material: Glass/Borosilicate Glass</i> <i>Capacity: 1L</i>	pc	2	1,000.00	2,000.00
24	Amber Reagent Bottle, 250mL <i>With Stopper/Screw Cap</i> <i>Material: Glass/Borosilicate Glass</i> <i>Capacity: 250mL</i>	pc	2	550.00	1,100.00
25	Amber Reagent Bottle, 500mL <i>With Stopper/Screw Cap</i> <i>Material: Glass/Borosilicate Glass</i> <i>Capacity: 500mL</i>	pc	2	750.00	1,500.00
26	Ammonium Chloride, Analytical Grade, 500g/btl ☐AR grade, 500g per bottle	btl	1	1,000.00	1,000.00
27	ammonium molybdate <i>ammonium molybdate, analytical reagent - 500 g.</i>	btl	1	17,000.00	17,000.00
28	Ammonium Nitrate ☐AR grade; at least 98% purity ☐Molecular Wt. 80.043 grams per mol. ☐1kg/pack	kg	2	10,000.00	20,000.00
29	Ammonium nitrate (NH₄NO₃) suitable for plant cell and tissue culture	kg	2	10,000.00	20,000.00
30	Ammonium Phosphate Dibasic ☐Analytical Grade ☐500 G bottle	btl	1	3,000.00	3,000.00
31	Anhydrous Sodium Sulfate 100g ☐anhydrous powder, Analytical grade pure>99.9% - 100 g per bottle	btl	1	1,000.00	1,000.00
32	Autoclave Tape ☐turns black at 250°F, ☐width - ¾ inch ☐length- minimum of 60 yards	pc	1	1,000.00	1,000.00
33	Automatic tilt measure ,Sulphuric acid <i>Automatic tilt measure</i> <i>with rubber stopper and storage bottle 500 ml</i> <i>for 10 ml sulphuric acid</i>	btl	1	62,500.00	62,500.00
34	Automatic tilt measure, Amyl alcohol <i>Automatic tilt measure Superior</i> <i>with rubber stopper and storage bottle 250 ml</i> <i>for 1 ml amyl alcohol</i>	btl	1	58,000.00	58,000.00
35	Barfoed's Reagent Solution 1000mL <i>Technical Reagent Grade 1000mL per bottle</i>	btl	1	5,000.00	5,000.00
36	Beaker, Glass, 1000mL ☐1000mL capacity, borosilicate glass	pc	3	1,000.00	3,000.00

37	Beaker, Glass, 100mL	pc	2	500.00	1,000.00
	☐100mL capacity, borosilicate glass				
38	Beaker, Glass, 150 mL	pc	2	380.00	760.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
39	Beaker, Glass, 2000mL	pc	2	2,000.00	4,000.00
	☐2000mL capacity, borosilicate glass				
40	Beaker, Glass, 250mL	pc	2	400.00	800.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
41	Beaker, Glass, 500mL	pc	4	1,000.00	4,000.00
	☐500mL capacity, borosilicate glass				
42	Beef Extract	btl	2	4,000.00	8,000.00
	500 g for microbiological work;				
43	Benedict's Solution 1000mL	btl	2	1,000.00	2,000.00
	Technical Reagent Grade 1000mL per bottle;				
44	Benzoic Acid	btl	1	3,000.00	3,000.00
	Benzoic Acid Tablet				
	Pack size: 500g				
45	Biological Safety Cabinet- Class I	set	1	165,000.00	165,000.00
	suitable for work involving low to moderate risk agents (Biosafety Levels 1, 2 and 3) where there is a need for containment, but not for product protection.				
	the HEPA filter included protects the environment by filtering air before it is exhausted				
	With the negative pressure, personnel protection is made possible by constant movement of air into the work area				
	Specifications:				
	UV lamp for sterilization				
	Soft touch control panel, LCD display				
	Energy-saving, high efficiency, low noise.				
	With memory function in case of power-failure.				
	304 stainless steel work stable, easy for cleaning.				
	Stable air flow system; provide firm protection to person and environment.				
	External Size: (W*D*H), mm: 900*713*1250mm				
	Internal Size:(W*D*H), mm: 900*713*1250mm				
	Voltage: 220V (AVR included)				
46	Bis-acrylamide	btl	1	16,300.00	16,300.00
	☐Molecular biology grade, ≥99.5% assay quality				
	☐Suitable for protein analysis and electrophoresis				
	☐Dnase-free and Rnase-free				
	☐Bottle of at least 100g				

47	Blood Lancets g.23 box of 200	box	1	2,000.00	2,000.00
48	Boiling Stone or Chips	bag	1	2,000.00	2,000.00
	<ul style="list-style-type: none"> ☐1000pcs/bag Glass Marbles High Precision Lab Glass Beads Used in distillation to prevent liquid level boiling 				
49	Buffer Solution pH 10, 500 mL	btl	1	2,500.00	2,500.00
50	Buffer Solution pH 4, 500 mL	btl	1	2,500.00	2,500.00
51	Buffer solution, pH 7, 1000 ml.	btl	3	1,500.00	4,500.00
52	Buffered Peptone Water	btl	1	4,000.00	4,000.00
	<ul style="list-style-type: none"> ☐Pre-enrichment broth ☐used for isolation and culturing of bacteria. ☐supplied in 500g/bottle 				
53	Burette with Glass Stopcock	pc	1	4,000.00	4,000.00
	<ul style="list-style-type: none"> ☐Burette with Glass Stopcock ☐Material: Glass/Borosilicate Glass ☐Capacity: 50mL ☐For Acid 				
54	Burette with Rubber Tube, stopper and dropper	pc	1	3,800.00	3,800.00
	<ul style="list-style-type: none"> ☐Burette with Rubber Tube, stopper and dropper ☐Material: Glass/Borosilicate Glass ☐Capacity: 50mL ☐For Base 				
55	Butyrometer for milk 0-10%	pc	3	30,000.00	90,000.00
	Milk butyrometer 0 – 10 %: 0.1 (accessory: 3280),glass				
56	Calcium carbonate, AR 500g	btl	1	12,000.00	12,000.00
57	Calcium Chloride Dihydrate	btl	2	2,000.00	4,000.00
	<ul style="list-style-type: none"> ☐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 				
58	Carbon Disulfide 500mL	btl	1	1,500.00	1,500.00
	Analytical Reagent Grade 500mL per bottle				
59	Carmine Powder, AR, 25g/btl	btl	2	15,000.00	30,000.00
	Carmine powder is a red compound used for staining.				
60	Centrifuge (Conical) Tubes, 15mL Capacity	pack	2	1,500.00	3,000.00
	<ul style="list-style-type: none"> ☐With graduations and marking spot. ☐Screwcap (plugseal) ☐Sterile. RNase-/DNase-free. ☐Non-pyrogenic ☐Polyethylene terephthalate (PET) material 				

	☑At least 3600 centrifugal force (x g)				
	☑Pack of 50 Tubes				
61	Centrifuge (Conical) Tubes, 50mL Capacity	pack	2	1,050.00	2,100.00
	☑With graduations and marking spot.				
	☑Screwcap (plugseal)				
	☑Sterile. RNase-/DNase-free.				
	☑Non-pyrogenic				
	☑Polyethylene terephthalate (PET) material				
	☑At least 3600 centrifugal force (x g)				
	☑Pack of 25 Tubes				
61	Centrifuge (Conical) Tubes, 50mL Capacity	pack	2	1,050.00	2,100.00
	☑With graduations and marking spot.				
	☑Screwcap (plugseal)				
	☑Sterile. RNase-/DNase-free.				
	☑Non-pyrogenic				
	☑Polyethylene terephthalate (PET) material				
	☑At least 3600 centrifugal force (x g)				
	☑Pack of 25 Tubes				
62	Centrifuge Rack, Multifunction	unit	2	4,000.00	8,000.00
	<i>For storage and general-purpose</i>				
	<i>Fit for 10mL, 15mL, 50mL centrifuge tubes</i>				
	<i>The centrifuge tube rack can be disassembled and easily assembled.</i>				
	<i>The centrifuge tube rack after assembly has two layers</i>				
	<i>Holds 30 pcs of 15 mL tubes and 20 pcs of 50mL tubes</i>				
63	Centrifuge Tube 10 mL	pack	1	1,800.00	1,800.00
	<i>Material: Polypropylene</i>				
	<i>Type of the Bottom Tube: Either Conical or Free-Standing</i>				
	<i>Type of Cap: Flat Cap</i>				
	<i>Graduation: Graduated from 1.5mL to 10mL in 0.5mL segments.</i>				
64	Centrifuge tube, 50 ml, sterile	pack	1	1,250.00	1,250.00
	<i>polypropylene, free standing, flat screw cap, 25 pcs/pack</i>				
65	Centrifuge tubes, 15 ml, sterile	pack	1	1,250.00	1,250.00
	<i>polypropylene, flat screw cap, 25 pcs/pack</i>				
66	Chlorine	gal	2	500.00	1,000.00
	<i>Liquid;</i>				
67	Chloroform 2.5L	btl	2	3,000.00	6,000.00
	<i>Analytical Reagent Grade 2.5L per bottle</i>				
68	Commercial Yogurt Machine	unit	1	49,999.00	49,999.00
	<i>Specification</i>				
	<i>Item: Commercial Yogurt Machine Intelligent With Refrigeration Multifunction Winemaking Fermentation Produce Equipment Fully Automatic</i>				
	<i>Voltage: 220V</i>				

	<i>Fermentation Power: 1000W</i>				
	<i>Refrigeration Power: 280W</i>				
	<i>Size: 650*700*1850mm</i>				
	<i>Fermentation Temperature: 0~60 °C</i>				
	<i>Refrigeration Temperature: 2~8 °C</i>				
	<i>Capacity: 388L</i>				
	<i>Refrigeration Method: Air Cooling</i>				
	<i>Control Method: Computer Touch Screen</i>				
69	Condom or Rubber Sheath	pc	40	110.00	4,400.00
	<i>material: Latex rubber</i>				
70	Custom oligo primers	unit	1	2,000.00	2,000.00
	■ <i>HPLC-CE purified</i>				
71	Cyclohexene	btl	1	3,500.00	3,500.00
	<i>Analytical Reagent Grade 2.5L per bottle</i>				
72	D-(+)-Maltose monohydrate, AR	btl	1	6,500.00	6,500.00
	<i>Analytical Standard</i>				
	<i>HPLC suitable</i>				
	<i>Size: 500 mg per bottle</i>				
73	Deep Freezer w/ surge protector (AVR)	unit	1	80,000.00	80,000.00
	<i>Specifications:</i>				
	<i>< Rated Voltage: 230V</i>				
	<i>< Rated Frequency: 60Hz</i>				
	<i>< Rated Power Input: 216W</i>				
	<i>< Rated Current: 1.0A</i>				
	<i>< Weight: 51kgs</i>				
	<i>< Refrigerant/ Amount: R134a/125g</i>				
	<i>< Climate: T</i>				
	<i>< Classification of Anti- electric Shock: OI</i>				
	<i>< Volume-365 L</i>				
	<i>< Energy Consumption-1.78Kw-h/24h</i>				
	<i>< Stainless Steel</i>				
	<i><7 cubic meters</i>				
	<i>< -50 degrees Celsius (Negative 50 degrees Celsius)</i>				
	<i>< Dual Compartment</i>				
	<i>< Any Color</i>				
	<i>< With Safety Lock</i>				
	<i>< Interior Light</i>				
74	Delicate Task Wipes	box	3	800.00	2,400.00
	■ <i>4.4 x 8.4 inches (11 x 21 cm)</i>				
	■ <i>at least 280 sheets/box</i>				
	■ <i>lint-free</i>				
75	Dessicator, Glass	pc	1	14,000.00	14,000.00
	■ <i>Dessicator, Glass, 300mm (12")</i>				
76	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>				
77	Digital Water Bath	unit	1	74,000.00	74,000.00
	<i>Controller Type: Digital</i>				
	<i>Temperature Range: 100°C</i>				
	<i>Material: Stainless Steel</i>				
	<i>Temperature Accuracy: ±1°C</i>				
	<i>Shipping Weight (Metric): 2.13 kg</i>				
	<i>Capacity (Metric): 3.0 L</i>				
	<i>Includes: Cover is included</i>				
	<i>Power Consumption: 300W, 110V, 50 Hz</i>				
	<i>Shipping Weight (English): 4.7 lb.</i>				
78	Digital Weighing Scale- 0.01-5kg	unit	1	28,000.00	28,000.00
	☐ <i>Capacity: 0.01g to 5kg</i>				
	☐ <i>Type: Laboratory Balance</i>				
	☐ <i>Power Supply: 100-240V/50-60H</i>				
	☐ <i>Size: 320*205*100mm</i>				
79	DNA Extraction kit for plant samples	kit	1	17,000.00	17,000.00
	<i>50 reactions in the kit</i>				
80	DNA Extraction kit for soil samples	kit	1	24,000.00	24,000.00
	<i>50 reactions in the kit</i>				
81	DNA Taq polymerase, 500 U/tube/kit, with MgCl₂ and PCR buffer in the kit	kit	1	5,000.00	5,000.00
82	Drager Aspirator Bulb	pc	5	1,000.00	5,000.00
83	Drying Oven for Laboratory	unit	2	168,000.00	336,000.00
	<i>Drying Oven</i>				
	<i>Item Specification</i>				
	<i>Stainless steel interior:</i>				
	<i>< Dimensions -w(A) x h(B) x d(C): 400 x 560 x 330 mm (d less 39 mm for fan)</i>				
	<i>< Interior- easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and</i>				
	<i>protected large-area heating on four sides</i>				
	<i>< Volume 74 l</i>				
	<i>< Max. number of internals 6</i>				
	<i>< Max. loading of chamber 120 kg</i>				
	<i>< Max. loading per internal 20 kg</i>				
	<i>Textured stainless steel casing:</i>				
	<i>< Dimensions w(D) x h(E) x d(F): 585 x 944 x 514 mm (d +56mm door handle)</i>				
	<i>< Housing rear zinc-plated steel</i>				

	<i>Electrical data</i>				
	< Voltage - 230 V, 50/60 Hz				
	< Electrical load - approx. 2500 W				
	< Voltage - 115 V, 50/60 Hz				
	< Electrical load - approx. 1800 W				
84	Erlenmeyer Flask, Glass, 1L, good quality	pc	1	3,000.00	3,000.00
85	Erlenmeyer Flask, Glass, 250mL	pc	5	500.00	2,500.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
86	Erlenmeyer Flask, Glass, 500ml	pc	2	1,000.00	2,000.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
87	Erlenmeyer Flask, Glass, 500mL	pc	5	1,000.00	5,000.00
	☐500mL capacity, borosilicate glass				
88	Ethanol (Ethyl alcohol)	btl	1	4,500.00	4,500.00
	☐95%,				
	☐4 Liters,				
	☐Analytical Grade				
89	Ethanol Absolute	btl	2	2,500.00	5,000.00
	2.5 Liters/ bottle;				
90	Ethyl Alcohol (95%)	canister	3	4,000.00	12,000.00
	☐95%				
	☐Container size: Plastic waterjug (20L)				
91	Filter paper	pack	1	2,500.00	2,500.00
	Specifications:				
	-Glass microfiber filters				
	- Diameter: 47 mm				
	-Pore size: 1.2 μ m or 1.5 μ m				
	-100 pcs per pack				
92	Finepoint High Precision Forceps	pc	5	300.00	1,500.00
	☐Tip Style: Fine				
	☐Material: Stainless Steel				
	☐Length 4.5"				
93	Formaldehyde	btl	1	3,000.00	3,000.00
	Analytical Reagent Grade 2.5L per bottle;				
94	Fructose	btl	1	2,000.00	2,000.00
	Analytical Reagent Grade, 500g per bottle				
95	Gibberellic Acid 100g	btl	1	15,000.00	15,000.00
	Gibberellic Acid (GA3), 90%				
	Appearance (color) - white to off-white				
	Appearance (form) - Crystalline powder				
	Solubility (turbidity) 5% solution in Methanol clear				
96	Giemsa stain set	btl	1	3,000.00	3,000.00
	Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml				
97	Glacial Acetic Acid, Analytical Standard	btl	1	3,000.00	3,000.00
	Certified analytical standard				
	HPLC and GC suitable				

	<i>Size: 2.5L per bottle</i>				
98	Glass Jar 8oz	box	15	350.00	5,250.00
	☐Clear				
	☐8oz				
	☐M-7177				
	☐with cap				
	☐24pcs/box				
99	Glass Stirring Rod 12 inch, 10mm dia.	pc	5	450.00	2,250.00
	<i>12 inch long, 10 mm diameter</i>				
	<i>Borosilicate Glass 10</i>				
100	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				
101	Gloves, Nitrile, Medium	box	3	1,500.00	4,500.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: Medium				
102	Glycerin 1L/Bottle, AR	btl	1	1,000.00	1,000.00
103	Graduated Cylinder, Glass, 1000mL	pc	2	1,500.00	3,000.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
104	Graduated Cylinder, Glass, 100mL	pc	7	400.00	2,800.00
	☐Type 1, Class A Borosilicate Glass				
105	Graduated Cylinder, Glass, 250mL	pc	7	600.00	4,200.00
	☐Material: Borosilicate Glass				
	☐Good Quality				
106	Graduated Cylinder, Plastic, 1000mL	pc	2	400.00	800.00
	<i>Plastic, 1000ml (1L) capacity for Particle Size Analysis</i>				
107	Hemaquick Stain	set	2	4,000.00	8,000.00
108	High Precision Stainless Steel Digital Vernier Caliper	pc	5	2,500.00	12,500.00
	<i>6 inches; 0.01-0.025 mm accuracy</i>				
109	Hygrometer Thermometer Indoor Humidity Monitor, Temperature Humidity Meter Room Thermometer Gauge In	unit	1	2,000.00	2,000.00
	<i>* Power supply: Station:2 x AAA 1.5V batteries(not included); Sensor: 2 x AAA 1.5V batterie(Battery not included).</i>				
	<i>* Backlight LCD Display</i>				

	<i>* with Remote Sensor</i>				
110	Inoculating Loop Stainless Steel	pack	1	1,500.00	1,500.00
	■10PCS 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology				
111	Iodine-Potassium Iodide Solution, 500ml/bottle Laboratory Grade	btl	1	2,500.00	2,500.00
112	Laboratory Refrigerator	unit	1	120,000.00	120,000.00
	<i>Temperature Control Microprocessor control, Large LED display inner temperature clearly, and with easy view The inner temperature can be adjustable at the range of 2 °C~8 °C with an increment of 0.1; Multiple sensors to display or control the temperature; The Lowest and Highest temperature recorded value record.</i>				
	<i>Safety Control Malfunction alarms: high-temperature alarm, low-temperature alarm, Power failure alarm, Door jammed, low voltage of backup battery. Over temperature alarm system, set the alarm temperature as requirements; Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm; Protection function: power-on delay, time between stops; Temperature recorder monitor system (Optional) . Refrigeration System Highly efficient famous brand compressor and fan; Forced-air circulation for large airflow with special air ducts to guarantee inner temperature consistency. Large area of the evaporator design, cooling strong and high-temperature uniformity, While effectively suppressing frost, reducing defrosting process.</i>				
	<i>CFC-Free/HCFC refrigerant.Ergonomic Design Safety door lock, preventing unauthorized access; Auto defrost function guarantees a good performance in high ambient temperature and humidity area; Wide voltage design from 192V to 242V; Inner LED lighting and caster design; No condensation glass door; Adjustable shelf design ; Foaming door is optional; Stopper on rear against back wall. Cabinet Type Vertical Climate Class ST Cooling Type Forced air cooling Defrost Mode Auto Refrigerant HC, R600a Cooling performance(°C) 4 Temperature Range(°C) 2 ~ 8 Controller Microprocessor Display LED Alarm Audible, Remote Interior Galvanized steel powder coating (white) Exterior Galvanized steel powder coating (white) Power Supply(V/Hz) 220/50 Power(W) 240 Capacity(L) 395 Net/Gross Weight(approx) 95/115 (kg) Interior Dimensions(W*D*H) 500×510×1550 (mm) Exterior</i>				

	<i>Dimensions(W*D*H) 600×650×1785 (mm) Packing Dimensions(W*D*H) 660×710×1885 (mm) Container load (20'/40'/40'H) 27/54/54 High/Low Temperature Y Remote Alarm Y Power Failure Y Sensor Failure Y Low Battery Y Door Ajar Y Lockage Y Inner LED light Y Foot N Caster Y Test Hole Y Shelves/Inner Doors 6/- Foaming Door optional USB Interface Y Temperature Recorder optional</i>				
113	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity	unit	1	20,000.00	20,000.00
	<i>Material of plate : ceramic coating</i>				
	<i>Speed(RPM) : 0-1600RPM</i>				
	<i>Heating Power : 600W</i>				
	<i>Plate Size : 19 * 19 cm</i>				
	<i>Heating Temperature : 350 °C</i>				
114	Laboratory Stool/Chair, Wheeled	pc	20	4,500.00	90,000.00
	<i>Anti-static stool</i>				
	<i>Adjustable height: at least 40-60 cm</i>				
	<i>Weight capacity: at least 300lbs</i>				
	<i>Ergonomic with hip to mid-waist level back support</i>				
	<i>With round footrest/ foot ring</i>				
	<i>Anti-slip seat material: Rugged polyurethane</i>				
	<i>No. of wheels: 5</i>				
	<i>Standard style w/polished aluminum base: 20"-30"</i>				
	<i>Seat shape: Round</i>				
	<i>Color: Black</i>				
115	Laboratory working table	unit	4	58,500.00	234,000.00
	<i>Frame: steel structure; Cabinet: use high quality galvanized steel sheet, surface coated with epoxy powder; Table top: made of 12.7mm thickness corrosion-resistant black phenolic resin board, with 25.4mm thickness edge sealing; Hinges: open type high quality hinges, self-closing; Handle: aluminum dark type handle, with 3 pcs sockets and covers, 220V</i>				
116	Labware Detergent or Laboratory Dishwashing Liquid	btl	2	2,500.00	5,000.00
	<i>☑Suitable for manual, ultrasonic, and machine washing</i>				
	<i>☑Completely biodegradable</i>				
	<i>☑Free of phosphate, chlorine, enzyme, and EDTA</i>				
	<i>☑Contains anionic and cationic surfactants</i>				
	<i>☑5 liters per bottle</i>				
117	Lactophenol Cotton Blue 500ml/bottle	btl	1	4,000.00	4,000.00
	<i>Stain solution for fungi.</i>				
	<i>500ml/bottle</i>				
118	Lactose	btl	2	5,000.00	10,000.00

	AR. 500 grams;				
119	Lens Tissues, 25 Sheets per Booklet, 5 Booklets	packs	1	1,000.00	1,000.00
120	Lithium Chloride	btl	1	1,000.00	1,000.00
	☐Anhydrous				
	☐Lab grade/Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
121	Litmus Paper (Blue)	box	2	600.00	1,200.00
	Blue Litmus Test Paper				
	Strip Quantity: 100 strips				
	Other: Additional sheet sizes available upon request				
	Vial Dimensions: .75" (D) x 2.75" (H) [19mm (D) x 70mm (H)]				
	Strip Dimensions: 1.875" (L) x .25" (W) [48mm (L) x 6mm (W)]				
	Box Dimensions: 10" x 10" x 2.75" [29.8 cm x 19 cm x 7 cm] (144-pack box), 21" x 14.75" x 3" [53.3 cm x 37.5 cm x 7.6 cm] (500-pack box), 3.25" x 2.375" x 3" [8.3 cm x 6 cm x 7.6cm] (12-pack box), 5" x 3.5" x 3" [12.7 cm x 8.9 cm x 7.6 cm] (25-pack box)				
	Weight: 0.02 lbs [9 g] (single vial)				
	Other: Stored in a pocket-sized, lightweight vial.				
	Shelf-Life: 3 Years Minimum				
122	Magnetic Bar Set	set	1	5,000.00	5,000.00
	7pcs of Mixed size PTFE Magnetic Stirrer Mixer				
	Stir Bars White Color Without Pivot Ring				
	Shape: Cylinder without Pivot Ring				
	Feature: corrosion resistance				
	Quantity: 7 pcs				
	Size: 7pcs of Mixed				
	size :C5*15mm C6*20mm C6*25mm C7*25mm				
	C9*30mm C8*35mm C7*40mm				
123	Malachite green oxalate	btl	2	3,000.00	6,000.00
	☐reagent and microscopy grade				
	☐25 grams/bottle				
124	Malt Yeast Extract Agar	btl	7	2,000.00	14,000.00
	☐Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation				
	☐pH: 4.7±0.2 at 25°C				
	☐solubility: without rests				
	☐Appearance: fine powder				
	☐100 grams				
125	Mannitol (AR) 500g	pack	3	6,000.00	18,000.00
	☐Mannitol (AR)				
	☐Formula: C6H14O6				
	☐Molecular Wt. 182.172g/mol.				

126	Manual Sphygmomanometer, Automatic Blood Pressure Monitor, Pulse Oximeter, Stop Watch, Alcohol Thermo	lot	1	100,000.00	100,000.00
	<i>Manual Sphygmomanometer, Automatic Blood Pressure Monitor, Pulse Oximeter, Stop Watch, Alcohol Thermo, Dissection pans with wax, Dissection pans with wax, Bone saw, Teasing needles, Dissect, Serrated forceps, Thumb forceps, Fine-tip forceps, Scalpel handle, boxes Surgical blades, Mayo Dissecting scissors,</i>				
	<i>Push carts, Sedgewick-Rafter Counting Cell</i>				
	<i>Item Specification</i>				
	<i>2 pcs. Manual sphygmomanometer</i>				
	<i>with calibration key</i>				
	<i>Measure scope 0-300mmHg</i>				
	<i>Accuracy: +/-33mmHg</i>				
	<i>Sub-division: 2mmHg</i>				
	<i>2 pcs. Digital sphygmomanometer/Automatic Blood Pressure Monitor</i>				
	<i>clinically validated</i>				
	<i>body movement detection</i>				
	<i>blood pressure level indicator</i>				
	<i>irregular heartbeat detection</i>				
	<i>measurement memory storage</i>				
	<i>average for last 3 readings within 10 minutes</i>				
	<i>intellisense technology</i>				
	<i>2 pcs. Pulse oximeter</i>				
	<i>Pulse Rate, Blood Oxygen Saturation (SpO2), Heart Rate</i>				
	<i>Measurement range: 70~99%</i>				
	<i>Resolution: 1% Power Source:</i>				
	<i>Rechargeable Accuracy: 3% (70%~99%)</i>				
	<i>Measurement range: 30~240 bpm</i>				
	<i>Resolution: 1% Accuracy: 2bpm or 2% (select larger)</i>				
	<i>Low Perfusion: 0.4%</i>				
	<i>Working Current: 30mA</i>				
	<i>Dimension & Weight: 58*36*33mm, 32g</i>				
	<i>2 pcs Stop Watch</i>				
	<i>Large screen. display</i>				
	<i>Counts up to 24 hours with a resolution of 1/100 second</i>				
	<i>with lap function, alarm, clock, and calendar</i>				
	<i>Includes battery</i>				
	<i>10 pcs. Alcohol Thermometer 200 °C</i>				
	<i>unit scale: degree Celsius</i>				
	<i>range: max 200 degree Celsius</i>				
	<i>length: approx 30cm</i>				
	<i>material: traditional glass</i>				

	<i>alcohol thermometer mounting: tube type</i>				
	<i>Item Specification</i>				
	<i>>10 pcs. Dissection pans with wax Dimensions: 16x9 inches- Aluminum/stainless steel material</i>				
	<i>>20 pcs. Dissection pans with wax 10x7.5 inches- Aluminum/stainless steel material</i>				
	<i>>5 pcs. Bone saw</i>				
	<i>>30 pcs. Teasing needles Stainless steel handle with a straight metal probe</i>				
	<i>>30 pcs. Dissecting probe Stainless steel handle with a bent needle</i>				
	<i>>30 pcs. Serrated forceps Stainless steel material, medium points, serrated tips -6 inches long</i>				
	<i>>30 pcs. Thumb forceps Stainless steel material, smooth tip</i>				
	<i>>30 pcs. Fine-tip forceps Stainless steel material, straight tip</i>				
	<i>>40 pcs. Scalpel handle (size 4) without blade Stainless steel material with satin finish</i>				
	<i>>2 pcs. boxes Surgical blades Size 21</i>				
	<i>>1 box Surgical blade Size 10</i>				
	<i>>1 box Surgical blade Size 11</i>				
	<i>>30 pcs. Mayo Dissecting scissors Stainless steel material, straight bladed scissors</i>				
	<i>>30 pcs. Mayo dissecting scissors Stainless steel material, Curved bladed scissors</i>				
	<i>>5 pcs. Push carts Stainless steel With wheels 30inches height 3 layers</i>				
	<i>5pcs. Sedgewick-Rafter Counting Cell</i>				
	<i>Item Specification</i>				
	<i>Material: Brass and Glass</i>				
	<i>Lenght (") 3</i>				
	<i>Sample volume: 1.0 ml, cell size 50x201x1mm</i>				
	<i>Width(cm): 2.54</i>				
	<i>Lenght (cm): 7.62</i>				
	<i>Description: Gridded Sedgewick-Rafter Counting Cell, brass, 1.0ml</i>				
127	Marine Agar, 500g/bottle	btl	1	9,000.00	9,000.00
128	Marine Broth, 500g/bottle,AR	btl	1	8,000.00	8,000.00
129	Methyl orange, Sodium salt	btl	1	2,000.00	2,000.00
	☐CAS 547-58-0				
	☐25g				
	☐Orange Solid, Crystalline				
	☐Analytical Grade				
130	Microcentrifuge Rack with Cover, Reversible (2 mL/ 1.5 mL)	unit	1	1,000.00	1,000.00
	☐Polypropylene (PP)				
	☐Autoclavable				
	☐Excellent rack for benchtop use or freezer				

	storage.				
	☐Excellent chemical & temperature resistance				
	☐80/60 well rack capacities:				
	☐80-Place for 1.5 & 2.0mL tubes				
	☐60-Place for 0.5 & 0.2mL tubes				
	☐With lid or cover				
131	Microcentrifuge Tube, 2.0 ml, 1000pcs/pack, clear	pack	1	3,000.00	3,000.00
	Attach snap cap;				
132	Microcentrifuge Tubes (1.5mL Capacity)	pack	2	2,000.00	4,000.00
	☐1.5mL Capacity				
	☐clear				
	☐safe-lock				
	☐pack of 1000				
	☐autoclavable				
133	Microcentrifuge Tubes (2.0mL Capacity)	pack	2	3,000.00	6,000.00
	☐2.0mL Capacity				
	☐clear				
	☐safe-lock				
	☐pack of 1000				
	☐autoclavable				
134	MicroPette Plus Autoclavable 100-1000ul Variable Single-Channel Pipette	unit	1	10,000.00	10,000.00
	Variable or Fixed Volume: Variable Volume				
	Volume Range Min (uL): 100				
	Volume Range Max (uL): 1000				
	Accuracy (%/uL): 0.60/0.70/2.00				
135	Micropipette Tip, 1000 uL	pack	2	1,500.00	3,000.00
	☐capacity, 1000 uL				
	☐Standard tip, graduated				
	☐Autoclavable				
	☐Pack of 1000 tips				
136	Micropipette Tip, 200 uL	pack	1	1,000.00	1,000.00
	☐capacity, 200 uL				
	☐Short tip, graduated,				
	☐Autoclavable				
	☐Pack of 1000 tips				
137	Microscope Slides and cover slips	box	16	500.00	8,000.00
	☐Pre-Cleaned Blank slides with 50pcs./box 22 x 22 mm square Cover Slip				
138	Microscope with Camera Lucida with Storage Cabinet	unit	2	75,000.00	150,000.00
	Stereo microscope with drawing tube (camera lucida) and dry storage cabinet				
	Specification:				
	Zoom ratio: 10:1				
	Zoom range: 0.75x-7.5x				
	Zoom control: Dual, graduated, bilateral amount				
	Focus: Course and fine focus				

	Magnification: 7x-45x (10x eyepieces)				
	Viewing head: Tilting ergonomic binocular viewing head				
	Revolving nosepiece: manual, standard type				
	Extendable Eyepoint adjuster: yes				
	Camera port: yes, camera mount adapter				
	Attachment for drawing tube: yes				
	Drawing tube or camera lucida: yes, detachable				
	Transmitted light stand: yes - brightfield/darkfield light base				
	Primary light: 6V 30W				
	Accessory light: 6V 30W				
	Light type: Halogen				
	Stage plate: clear and black				
	Objective dust cover: yes				
	Power cord: yes				
139	Mixing bowl Stainless Steel	pc	5	1,000.00	5,000.00
	Features: 1. Made of premium stainless steel, shiny, scratch-resistant, rust-resistant. 2. It won't stain or absorb odors, easy to wash the bowls in the dishwasher or by hand. 3. A wide rim ensures contents to flow evenly when pouring. Its rolled rim allows the user to have a sturdy grip every time they handle the bowls. 4. Ideal for serving fruit salads, marinating for the grill, and adding last ingredients for dessert. With a lid design for healthier food storage. 5. Multi-sizes are available, bowls of different size can nest inside each other to save space in kitchen cabinets, cupboards, and countertops. Specifications: Material: Stainless Steel Color: as pictures show #MixingBowl #StainlessSteelMixingBowl #BakingBowls #StainlessSteelSaladBowl #KitchenCookingTools size: 5L, 12 cm Hx26cmHx26cmWx26cmD				
140	Molybdic acid (sodium salt) (Na₂MoO₄, 2H₂O) suitable for plant cell and tissue culture	btl	2	5,000.00	10,000.00
	500grams, AR;				
141	Mortar and Pestle (small), Porcelaine	pc	2	500.00	1,000.00
142	Myo-inositol suitable for plant cell and tissue culture (100gms)	btl	2	5,000.00	10,000.00
143	Nerve Muscle Assembly/ Kymograph Assembly	unit	1	100,000.00	100,000.00
	Specification:				
	Universal Kymograph (speeds 0.12, 0.25, 1.25, 2.5, 12.5, 25, 320, 640 mm/sec) with inbuilt Stimulator				
	Muscle and heart Bath with pair of electrodes, lever assembly, pin and ink marker				
	Hook and weight set, set of 11g				
	Hook and weight set, set of 110g				
	Time marker				

	<i>Marriote bottle and stand</i>				
	<i>Kymograph paper</i>				
	<i>Dissection box</i>				
	<i>Dissection tray</i>				
	<i>Pithing needle</i>				
	<i>Muscle clip</i>				
	<i>Connecting wire</i>				
144	Ninhydrin (1,2,3 -Indanetrione monohydrate), 25g	btl	1	5,000.00	5,000.00
	☐CAS 485-47-2				
	☐White solid				
	☐50g				
	☐Analytical Grade				
145	Nitrile Gloves, Medium	box	2	1,500.00	3,000.00
	<i>Glove Type: Chemical Resistant Disposable Gloves</i>				
	<i>Glove Material: Nitrile</i>				
	<i>Powder-Free</i>				
	<i>1 box of 100 or 50 pairs</i>				
	<i>Food Safe</i>				
	<i>Size: medium</i>				
146	Nutrient Agar, 500g Bottle	btl	2	3,000.00	6,000.00
	<i>to be used for the culture of test organisms</i>				
	<i>nutrient medium used for the cultivation of microbes supporting growth of a wide range of non-fastidious organisms</i>				
	<i>500g bottle</i>				
	<i>recommended for the cultivation of less fastidious microorganisms from clinical and nonclinical samples. It can be enriched with blood or other biological fluids.</i>				
	<i>Ingredients:</i>				
	<i>Peptone - 5 gms/liter</i>				
	<i>HM Peptone B # - 1.50 gms/liter</i>				
	<i>Yeast Extract - 1.50 gms/liter</i>				
	<i>Sodium Chloride - 5.00 gms/liter</i>				
	<i>Agar - 15.00 gms/liter</i>				
	<i>Final pH (at 25 °C) 7.4±0.2</i>				
	<i>**Formula adjusted, standardized to suit performance parameters</i>				
	<i>*Equivalent to Beef extract</i>				
147	Paraformaldehyde	btl	1	9,500.00	9,500.00
	☐Reagent or analytical grade				
	☐For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies				
	☐Crystalline form				
	☐Bottle of 25g				
148	Pasteur pipette	pc	45	50.00	2,250.00

	<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>				
149	Peptone	btl	1	2,800.00	2,800.00
	☐500g for bacteriological work				
150	Petroleum Ether, AR	gal	2	5,000.00	10,000.00
151	pH / Temperature Laboratory Bench Meter	unit	1	29,000.00	29,000.00
	◀Automatic Temperature Compensation (ATC) for good accuracy under fluctuating temperatures				
	◀Easy to read large custom LCD				
	◀Easy and Quick Push-button Calibration				
	◀7 memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45) for calibration				
	◀Messages on the LCD to make the calibration easy and accurate				
	◀User-selectable "calibration time out" to remind when a new calibration is necessary				
	◀Stability Indicator prompts whenever reading stabilizes.				
	☐Moreover, it offers an extended temperature range from -20°C (-4°F) to 120°C (248°F), using the MA831R interchangeable temperature probe.				
	☐Specific Details:				
	◀Range: pH -2.00 to +16.00 pH				
	◀Temp.: -20.0 to +120oC / -4.0 to +248oF				
	◀Resolution: pH 0.01pH				
	◀Temp.: 0.1oC (0.1oF)				
	◀Accuracy: pH +/- 0.01 pH (@20oC / 68oF) Temp.: +/- 0.4oC / +/- 0.8oF				
	◀Typical EMC pH: +/- 0.02 pH				
	◀Deviation Temp.: +/- 0.4oC / +/- 0.8oF				
	◀pH Automatic Calibration: 1 or 2 point calibration, with 7 memorised buffers				
	◀Offset Calibration: +/- 1 pH				
	◀Slope Calibration: from 80 to 108%				
	◀Temperature Compensation: automatic, from -20.0 to +120oC / -4.0 TO +248oF or manual, without temperature probe				
	◀pH electrode: MA 917B/1 (included) double junction refillable glass pH electrode				
	◀Temperature probe: MA 831R (included) Environment: 0 to 50oC / 32 to 120.0oF; max. RH 95% Input impedance: 10 ¹² ohm				
	◀Power supply: 12 VDC power adaptor (supplied)				

	◀Dimensions: 230W x 160D x 95H mm. Weight: 0.9 kg.				
152	pH Meter pen type	pc	1	2,500.00	2,500.00
	■0.1 pH resolution				
	■water-resistant/proof				
153	Pharmaceutical Agar, AR, 500g/bottle	btl	1	3,000.00	3,000.00
154	Phenolphthalein	btl	1	2,000.00	2,000.00
	25 grams per bottle				
	Description: White crystalline powder				
155	phi25 DNA polymerase, RCA kit	kit	2	40,000.00	80,000.00
156	pH-indicator paper pH 1 - 14 Universal indicator	pack	2	500.00	1,000.00
	Booklet size: 4.5 CM x 6.5 CM, with colour scale, pH 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14				
	PROPERTIES				
	Quality Level 100				
	feature non-bleeding: no				
	graduations and accuracy measuring range accuracy: 1 pH unit				
	roll L 4.8 m , with color scale				
	pH range 1-14				
	detection method colorimetric				
	storage temp. 15-25°C				
157	Pipette Tips (20 ul)	packs	1	1,000.00	1,000.00
	■20 ul capacity				
	■autoclavable				
	■100 pcs per pack				
158	Portable Moisture Tester for Grain with Digital Meter Readout, Grain Tester with Carry Case	set	1	20,000.00	20,000.00
	Specification:				
	Backlit display for nighttime use				
	Built-in calibration button for displaying the average of saved test results				
	Multi-language display				
	Higher-frequency, capacitive circuit improves accuracy				
	Moisture range: 5% to 40% depending on grain tested				
	Temperature range: 32° to 113°F (0° to 45°C)				
	Repeatability & Accuracy: ± 0.5% in normal moisture range for stored grain				
	Single-point or Precision multi-point calibration to match local elevator				
	Direct readout for 40 different grain scales				
	Case color: Black				
	Material: Plastic				
	Power source: Battery-powered				
	Voltage: 9 Volts				
	Certification: certified frustration-free				
	Battery included: yes				

	<i>Includes Protective carrying case with shoulder strap</i>				
	<i>with warranty</i>				
159	Portable Suction Machine	unit	1	5,000.00	5,000.00
	<i>Suction Machine</i>				
	<i>Power voltage: 220v/60Hz</i>				
	<i>Lightweight and Portable</i>				
	<i>For use in bronchial and oral hygiene to provide effective airway clearance and control infection</i>				
	<i>Oil-free Pump</i>				
	<i>Heavy Duty</i>				
	<i>Power voltage: AC 220V</i>				
	<i>Negative pressure: $\geq 0.075\text{Mpa}$</i>				
	<i>Suction rate: $\geq 19\text{L/min}$</i>				
	<i>Negative pressure regulating range: $-0.013 \sim -0.07\text{MPa}(490\text{mmHg})$</i>				
	<i>Suction bottle: 1000ml</i>				
	<i>Noise: $\leq 65\text{dB}$</i>				
	<i>Input Power: 150VA</i>				
	<i>Pump Structure: Self-lubrication without oil</i>				
	<i>Working type: Intermission</i>				
160	Potassium Acetate 500G/btl	btl	1	5,000.00	5,000.00
	☐ <i>Anhydrous</i>				
	☐ <i>Lab grade/ Analytical reagent grade</i>				
	☐ <i>Expiration date(3 years from the delivery date)</i>				
	☐ <i>Packed in Teflon bottles</i>				
161	Potassium Carbonate, 500G/btl	btl	1	5,000.00	5,000.00
	☐ <i>Anhydrous</i>				
	☐ <i>Lab grade/ Analytical reagent grade</i>				
	☐ <i>Expiration date(3 years from the delivery date)</i>				
	☐ <i>Packed in Teflon bottles</i>				
162	Potassium Chloride, AR, 1000g	btl	1	5,000.00	5,000.00
163	Potassium dichromate, AR Grade	btl	2	5,000.00	10,000.00
	☐ <i>500 grams/poly bottle</i>				
164	Potassium Hydroxide	btl	1	6,000.00	6,000.00
	☐ <i>Flakes</i>				
	☐ <i>Analytical Grade</i>				
	☐ <i>1kg</i>				
165	Potassium Iodate 500g	btl	1	7,000.00	7,000.00
	<i>Analytical grade</i>				
166	Potassium iodide, KI	btl	1	7,000.00	7,000.00
	☐ <i>Analytical reagent grade, powder, 500g/bottle</i>				
167	Potassium Nitrate	kg	4	8,000.00	32,000.00
	☐ <i>AR grade</i>				
	☐ <i>Formula: KNO_3</i>				
	☐ <i>Molar wt: 101.1032 g/mo</i>				
	☐ <i>1kg/pack</i>				
168	Potassium permanganate, ACS reagent, $\geq 99.0\%$	btl	1	8,000.00	8,000.00

	Crystals				
	<i>100grams/bottle</i>				
169	Potassium Phosphate (KH₂PO₄) suitable for plant cell and tissue culture	btl	2	5,000.00	10,000.00
	<i>500 grams</i>				
170	Potato Dextrose Agar (500g)	btl	1	5,000.00	5,000.00
	<i>Powder form</i>				
171	Potato Dextrose Agar (PDA), 500 grams	btl	1	5,000.00	5,000.00
172	Razor Blade, Box of 25pcs	box	1	200.00	200.00
173	Red Litmus Test Paper	Vial	2	600.00	1,200.00
	<i>Strip Quantity: 100 strips</i>				
	<i>Vial Dimensions: .75" (D) x 2.75" (H) [19mm (D) x 70mm (H)]</i>				
	<i>Strip Dimensions: 1.875" (L) x .25" (W) [48mm (L) x 6mm (W)]</i>				
	<i>Box Dimensions: 10" x 10" x 2.75" [29.8 cm x 19 cm x 7 cm] (144-pack box), 21" x 14.75" x 3" [53.3 cm x 37.5 cm x 7.6 cm] (500-pack box), 3.25" x 2.375" x 3" [8.3 cm x 6 cm x 7.6cm] (12-pack box), 5" x 3.5" x 3" [12.7 cm x 8.9 cm x 7.6 cm] (25-pack box)</i>				
	<i>Weight: 0.02 lbs [9 g] (single vial)</i>				
	<i>Other: Stored in a pocket-sized, lightweight vial.</i>				
	<i>Shelf-Life: 3 Years Minimum</i>				
174	Reverse transcriptase, 200000 units/ml concentration, 10000 units/tube/kit	kit	1	20,000.00	20,000.00
175	RNA Extraction kit for soil samples	kit	1	30,000.00	30,000.00
	<i>50 reactions in the kit</i>				
176	RNA Extraction kit, 50 reactions, for plant samples	kit	1	20,000.00	20,000.00
	<i>50 contents in the kit;</i>				
177	Scalpel Blade	box	3	500.00	1,500.00
	■ <i>Stainless steel</i>				
	■ <i>100 blades/box</i>				
178	Seliwanoff's Reagent	btl	1	4,000.00	4,000.00
	<i>Technical grade (100mL per bottle)</i>				
179	Serological Glass Pipette, 50mL	pc	12	2,000.00	24,000.00
	<i>Autoclavable</i>				
	<i>Borosilicate glass</i>				
	<i>Graduation: 1mL Intervals</i>				
	<i>Capacity: 50mL</i>				
180	Shelby Tube, 2.5in Diameter X 36in Long	tubes	5	5,000.00	25,000.00
	<i>Note: Size is OD. All tubes are 16 gauge steel.</i>				
	<i>3" and 5" tubes are galvanized</i>				
181	Silver Aluminum Foil Zip Lock Pouches	bag	2	300.00	600.00
	<i>Color: silver</i>				
	<i>Size: approx. 7*5cm</i>				
	<i>Quantity: 100pcs</i>				
	<i>Boil-able, freezable and reusable Not transparent,</i>				

	<i>high reflection</i>				
182	Sodium Bicarbonate	btl	1	5,000.00	5,000.00
	☐Sodium Bicarbonate Powder				
	◀USP Pharmaceutical Grade				
	◀CAS: 13-34799				
	◀HIGHEST QUALITY				
	◀Aluminum Free				
	◀1-kg bottle				
183	Sodium Chloride	btl	1	2,500.00	2,500.00
	<i>Analytical Reagent Grade 500g per bottle</i>				
184	Sodium Iodide	btl	1	2,500.00	2,500.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
185	Sodium phosphate monobasic, NaH₂PO₄	btl	1	4,000.00	4,000.00
	<i>Analytical grade</i>				
	<i>For use as enzyme buffer and other chemical assays</i>				
	<i>Bottle of at least 500g</i>				
186	Soft Ice Cream Machine	unit	1	49,999.00	49,999.00
	<i>Voltage: 110V/60Hz</i>				
	<i>Total Power: 1000W</i>				
	<i>Ice Cream Output: 2.6-5.3 Gal / 10-20 L per Hour</i>				
	<i>Hopper Capacity: 1.2 Gal / 4.5 L</i>				
	<i>Cylinder Capacity: 0.4 Gal / 1.6 L</i>				
	<i>Compressor: 430W Embraco</i>				
	<i>Refrigerant: R290a</i>				
	<i>Working Temperature: 41-95 °F / 5-35 °C</i>				
	<i>Product Dimensions: 21.7"x8.3"x26.8" / 550x210x680 mm</i>				
	<i>Product Weight: 99.2 lbs / 45 kg</i>				
187	Sorbitol (AR) 500g	pack	3	5,000.00	15,000.00
	☐Sorbitol (AR)				
	☐Chemical Formula: C ₆ H ₁₄ O				
	☐Molecular Wt. 182.172 g/mol.				
188	Stirring Rod	pc	10	300.00	3,000.00
	☐big size, => 10 inches long, fire polished ends with no policeman				
189	Strontium Chloride	btl	1	2,000.00	2,000.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
190	Sucrose	btl	2	2,500.00	5,000.00
	<i>Analytical Reagent Grade 500g per bottle</i>				
191	Sulfuric acid, H₂SO₄	btls	1	5,000.00	5,000.00
	☐Concentrated, analytical reagent grade, at least				

	1.84 sp. gr., 2.5L/bottle				
192	Taq DNA Polymerase, 5000U	kit	1	13,500.00	13,500.00
	☐Certified molecular biology grade				
	☐For PCR analysis				
	☐Concentration: 5U/uL				
	☐Kit includes 25mL each of 10x PCR buffer and 50mM MgCl ₂				
	☐Size: 1mL				
193	Test Tube Racks, 12MM x 12Holes	pc	5	1,000.00	5,000.00
	Stainless Steel Holes Test Tube Rack				
194	Test Tubes, 16 x 100mm, 100 pcs/ box	box	1	5,000.00	5,000.00
	☐borosilicate glass, heat resistant, rimless				
195	Thiamine.HCl suitable for plant cell and tissue culture (25gms)	btl	1	8,000.00	8,000.00
196	Three Way Pipettor (Safety Pipettor)	pc	5	7,000.00	35,000.00
	Exclusively for handling toxic or hazardous chemicals.				
	Material Rubber				
	Capacity (mL) 50				
	Standard With suction / discharge valve				
	Applicable pipette				
	outer diameter (Φmm) 5~8				
197	TRIS-base, pH 8, molbio grade, 500g/bot	btl	1	5,000.00	5,000.00
198	Vernier Caliper	pc	1	3,600.00	3,600.00
	☐Measurement Range:0-200mm				
	☐Material:Stainless Steel				
	☐Accuracy:0.01mm				
	☐Caliper Type:Digital Calipers				
199	Veterinary Gas Anesthesia Machine	set	1	430,000.00	430,000.00
	Suitable for animals (e.g., dogs and cats).				
	Rebreathing and non-rebreathing circuit.				
	With trolley				
	With patient monitor				
	With oxygen concentrator				
	With endotracheal tube				
	With laryngoscope				
	Soda lime and Isoflurane				
	Power: 220V supply voltage and 60Hz				
	Inclusions: Accessories, Automatic Voltage Regulator, free in-house training				
200	Vinyl Gloves	box	1	1,500.00	1,500.00
	size: Large				
	100 pcs per box				
	powder-free				
201	Vol. pipettes 10.75 ml for milk	pc	2	1,500.00	3,000.00
	Volumetric pipette				
	with one ring mark				

	10.75 ml milk glass				
202	Volumetric flask <i>borosilicate glass, with ground glass cover, 25 mL, Class A, 6pcs/pack, ISO 9000 compatible</i>	pack	1	12,000.00	12,000.00
203	Volumetric Flask 100ml ☐100 mL (±0.01 mL) ☐Borosilicate glass with glass standard taper stopper, ☐Class A ☐Calibrated	pc	3	1,000.00	3,000.00
204	Volumetric Flask 10ml ☐10 mL (± 0.02 mL) ☐Class A ☐Borosilicate Glass with Glass Standard Taper Stopper ☐calibrated	pc	5	500.00	2,500.00
205	Volumetric Flask 50ml ☐50mL, (±1mL) ☐Borosilicate glass with glass standard taper stopper, ☐Class A ☐Calibrated	pc	5	700.00	3,500.00
206	Wash Bottle, 250mL cap. ☐Material: Plastic (good quality)	pc	5	200.00	1,000.00
207	Watch Glass ☐Material: Glass/Borosilicate Glass ☐Autoclavable: Yes ☐Outer diameter: 75 mm (7.5cm), ☐fits 250 mL beakers, ☐12pcs/pack, ☐good quality	pack	1	1,500.00	1,500.00
208	weighing pan, rectangular 260mm, 200 mm	pc	10	500.00	5,000.00
209	Wright Stain <i>Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml</i>	btl	1	4,000.00	4,000.00
210	Zinc sulfate (ZnSO₄, 7H₂O) suitable for plant cell and tissue culture ☐molecular weight: 287.54 ☐500grams	btl	1	4,000.00	4,000.00
					4,100,000.00

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

- The Visayas State University now invites bids for the above Procurement Project. Delivery of the Goods is required by *Ninety (90) calendar days upon receipt of Notice to Proceed (NTP)*. Bidders should have completed, within *two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The

description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

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

4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *17 October – 08 November 2023 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 Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
6. The *Visayas State University* will hold a Pre-Bid Conference on ***December 4, 2023; 2:00 AM*** 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 ***18 December 2023 until 8:30 AM***. Late bids shall not be accepted.
8. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through preferred couriers. A proof (e.g. courier receipt/waybill, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
10. Bid opening shall be on ***18 December 2023 until 9:00 AM*** 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. This procurement project is part of the early procurement activities (EPA) of VSU for 20243 projects. Procurement activities from advertisement until recommendation of award to the HoPE shall be conducted in 2023 but issuance of award to the winning bidders shall be done in 2024 upon the release of 2024 VSU General Appropriations Act from DBM.
12. 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.
13. 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*

14. You may visit the following websites:

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

November 24, 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-24-09*.

The Procurement Project (referred to herein as “Project”) is composed of *52 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 2024 in the amount of *Four Million One Hundred Thousand Pesos (PhP 4,100,000.00)*.

2.2. The source of funding is: NGA, the General Appropriations Act 2024.

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 *April 18, 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 maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows: One Project having several items, which shall be awarded as separate contracts per item.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. <i>Laboratory Equipment, Supplies and 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>Eighty Two Thousand Pesos (PhP 82,000.00)</i> or <i>two percent (2%) of ABC</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>Two Hundred Five Thousand Pesos (PhP 205,000.00)</i> or <i>five percent (5%) of ABC</i> 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="margin-left: 40px;"><u>Vivian V. Balbarino</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> sppmo@vsu.edu.ph</p> <ul style="list-style-type: none"> ● <i>Additional Instruction: The Supplier should notify the Head of Supply and Property Management Office atleast 1 week before the scheduled delivery.</i> <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 r supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
	<p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p>

Spare Parts –

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

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

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

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

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

Packaging –

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

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

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

Name of the Procuring Entity
Name of the Supplier
Contract Description
Final Destination
Gross weight
Any special lifting instructions

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

Section VI. Schedule of Requirements

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

Item #	Qty	Unit	Description	Delivered, Weeks/Months
1	1	btl	1 kb Plus DNA Ladder	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
			1ml;	
2	2	pc	100 ml Type 1, class A borosilicate glass Beaker	
3	1	unit	1000- 10000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
			<i>Volume Range Min (uL): 1000</i>	
			<i>Volume Range Max (uL): 10000</i>	
			<i>Accuracy (%/uL): 0.5</i>	
			<i>Repeatability/Precision (%/uL): 0.2</i>	
			<i>Autoclavable: Yes</i>	
4	2	pc	1000 ml Type 1, class A borosilicate glass Beaker	
5	5	pc	125 ml Erlenmeyer flask	
			<i>70980-125- 125 ml Erlenmeyer flask;</i>	
6	5	pc	125 ml Erlenmeyer flask	
			<i>70980-125- 125 ml Erlenmeyer flask;</i>	
7	1	lot	2 Unit of Digital Electric Stereo Microscope with Camera Lucida	
			<i>Specifications:</i>	
			<i>HARDWARE</i>	
			<i>AR tilting trinocular tube SZX2-ARTTR • Angle of observation tube: 5 to 45 degrees</i>	
			<i>• Maximum power consumption: 10 W</i>	
			<i>• Interpupillary distance adjustment range: 57 to 80 mm</i>	
			<i>• Equipped with eyepiece clamping knob</i>	
			<i>• Light-path switching mechanism: present</i>	
			<i>• Eyepiece magnification: 1.25X; camera magnification: 1X</i>	
			<i>• Functions of buttons on the front panel: AR image brightness adjustment (7 levels) and AR image ON/OFF</i>	
			<i>• Input connectors: HDMI x 1, USB 2.0 (Type-C) x 1, DC jack x 1</i>	
			<i>• Drive voltage: AC 100–240 V (AC adaptor)</i>	
			<i>• Camera lucida adapter: present</i>	
			<i>• Camera lucida included: yes</i>	
			<i>Zoom magnification sensor Main Functions:</i>	
			<i>• Set the zoom magnification (at click positions only)</i>	
			<i>• Move slides created on the software forward and backward</i>	
			<i>• Output connector: USB 2.0 Type-C</i>	
			<i>Recording:</i>	

			<ul style="list-style-type: none"> • File saving formats: mp4, mov; Video codec: H264 • Audio format: MP3; Audio codec: mp3
8	1	lot	2 Whole Plastinated Cat specimen ,1 Whole plastinated cat specimen,3D Cat Model,3D frog Anatomy,3D H
			Specification:
			> 2 Whole Plastinated Cat specimen -Dissected model exposing the anatomy of the neck, thoracic regions, abdominal organs, along with musculature of the upper forelimbs and hindlimbs
			Approximate length: 14 to 18 inches
			>1 Whole plastinated cat specimen Model showing superficial muscles of the cat
			> 3D cat model- The 3D Cat Anatomy software is an interactive model that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption, or they can be removed to permit viewing of deeper structures.
			> 3D frog anatomy. The 3D Frog Anatomy software is an interactive model of an American bullfrog (<i>Rana catesbeiana</i>) that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption, or they can be removed to permit viewing of deeper structures.
			>3D Human Anatomy Introduction -The 3D Human Anatomy Introduction software consists of an interactive model of the human body, created especially for students, teachers and healthcare professionals.
			>3D Bird Anatomy -The 3D Bird Anatomy software (desktop version) is an interactive anatomical model of a pigeon. This tool allows you to visualize bones, muscles and internal organs, as well as details of the bird's external anatomy.
			>3D fish anatomy The 3D Fish Anatomy software is an interactive model of a perch (<i>Perca flavens</i>) that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption or removed to permit viewing of deeper structures.
9	1	pc	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable
			7030301016, 200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable

10	1	lot	35 lab chairs , 5 aluminum shelves
			35 pcs. Stacking Chair
			Width: 20 inches
			Height: 32 1/2 inches
			Arms: Without Arms
			Assembled: Assemble Required
			Back: With Back
			Color: Black
			Features: Stackable
			Frame Color: Silver
			Frame Material: Steel
			Padded Seat: Without Padded Seat
			Seat Material: Plastic
			Shape: Rectangle
			Style: Solid Back
			Type: Chairs
			Usage: Breakroom Indor
			5 pcs. 5-Layer Steel Cabinet with Glass Sliding Doors
			Product specifications
			Color: Beige, Light Gray, Offwhite
			Material/s Used: Ga24 Metal Sheet, Heavy Duty Ball Bearing Rollers, Powdercoated Painting Finish
			Dimension (WxDxH): 900X4000X1850
11	1	Vial	4-Nitrophenol or p-Nitrophenol
			Analytical standard
			Powder or crystal form
			HPLC suitable
			Vial of 1g
12	1	lot	5 units of Electric Compound Binocular Microscopes
			Item Specification
			☐Objective Lenses: DIN standard Achromat 4x, 10x, 40xR, 100xR oil immersion objectives are parfocaled, 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

			<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
13	2	pc	500 ml Type 1, class A borosilicate glass Beaker
14	6	btl	Absolute Methanol - 99.5%
			Purity (GC): ≥ 99.5 %
			1 bottle contains 1 liter
15	2	gal	Acetone
			☐ Acetone, Technical Grade
			☐ 1gal
16	1	btl	Agar Agar (atleast 500g/btl)
17	3	btl	Agar for plant cell and tissue culture
			500 grams;
18	1	btl	Agarose, molbio grade, 100g/bot
19	6	gal	Alcohol, Denatured
20	1	btl	alpha-amylase from malt
			a - Amylase
			SKU: GRM638
			CAS No. : 9001-19-8
			EC No. : 232-588-1 EC
			Index No : 647-016-00-X
			Synonym : Diastase; 1,4- α -D-Glucan-glucanohydrolase
			HS Code : 3507 90 62
			Storage : 2 - 8°C
			Shelf life : 3 years
22	2	pc	Amber Reagent Bottle, 100mL
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 100mL
23	2	pc	Amber Reagent Bottle, 1L
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 1L
24	2	pc	Amber Reagent Bottle, 250mL
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 250mL
25	2	pc	Amber Reagent Bottle, 500mL
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 500mL
26	1	btl	Ammonium Chloride, Analytical Grade, 500g/btl
			☐ AR grade, 500g per bottle
27	1	btl	ammonium molybdate
			ammonium molybdate, analytical reagent - 500 g.

28	2	kg	Ammonium Nitrate
			☐AR grade; at least 98% purity
			☐Molecular Wt. 80.043 grams per mol.
			☐1kg/pack
29	2	kg	Ammonium nitrate (NH₄NO₃) suitable for plant cell and tissue culture
30	1	btl	Ammonium Phosphate Dibasic
			☐Analytical Grade
			☐500 G bottle
31	1	btl	Anhydrous Sodium Sulfate 100g
			☐anhydrous powder, Analytical grade pure>99.9% - 100 g per bottle
32	1	pc	Autoclave Tape
			☐turns black at 250°F,
			☐width - ¾ inch
			☐length- minimum of 60 yards
33	1	btl	Automatic tilt measure ,Sulphuric acid
			Automatic tilt measure
			with rubber stopper and storage bottle 500 ml
			for 10 ml sulphuric acid
34	1	btl	Automatic tilt measure, Amyl alcohol
			Automatic tilt measure Superior
			with rubber stopper and storage bottle 250 ml
			for 1 ml amyl alcohol
35	1	btl	Barfoed's Reagent Solution 1000mL
			Technical Reagent Grade 1000mL per bottle
36	3	pc	Beaker, Glass, 1000mL
			☐1000mL capacity, borosilicate glass
37	2	pc	Beaker, Glass, 100mL
			☐100mL capacity, borosilicate glass
38	2	pc	Beaker, Glass, 150 mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
39	2	pc	Beaker, Glass, 2000mL
			☐2000mL capacity, borosilicate glass
40	2	pc	Beaker, Glass, 250mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
41	4	pc	Beaker, Glass, 500mL
			☐500mL capacity, borosilicate glass
42	2	btl	Beef Extract
			500 g for microbiological work;
43	2	btl	Benedict's Solution 1000mL
			Technical Reagent Grade 1000mL per bottle;

44	1	btl	Benzoic Acid
			<i>Benzoic Acid Tablet</i>
			<i>Pack size: 500g</i>
45	1	set	Biological Safety Cabinet- Class I
			<i>suitable for work involving low to moderate risk agents (Biosafety Levels 1, 2 and 3) where there is a need for containment, but not for product protection.</i>
			<i>the HEPA filter included protects the environment by filtering air before it is exhausted</i>
			<i>With the negative pressure, personnel protection is made possible by constant movement of air into the work area</i>
			<i>Specifications:</i>
			<i>UV lamp for sterilization</i>
			<i>Soft touch control panel, LCD display</i>
			<i>Energy-saving, high efficiency, low noise.</i>
			<i>With memory function in case of power-failure.</i>
			<i>304 stainless steel work stable, easy for cleaning.</i>
			<i>Stable air flow system; provide firm protection to person and environment.</i>
			<i>External Size: (W*D*H), mm: 900*713*1250mm</i>
			<i>Internal Size:(W*D*H), mm: 900*713*1250mm</i>
			<i>Voltage: 220V (AVR included)</i>
46	1	btl	Bis-acrylamide
			☐ <i>Molecular biology grade, ≥99.5% assay quality</i>
			☐ <i>Suitable for protein analysis and electrophoresis</i>
			☐ <i>Dnase-free and Rnase-free</i>
			☐ <i>Bottle of at least 100g</i>
47	1	box	Blood Lancets g.23 box of 200
48	1	bag	Boiling Stone or Chips
			☐ <i>1000pcs/bag Glass Marbles High Precision Lab Glass Beads Used in distillation to prevent liquid level boiling</i>
49	1	btl	Buffer Solution pH 10, 500 mL
50	1	btl	Buffer Solution pH 4, 500 mL
51	3	btl	Buffer solution, pH 7, 1000 ml.
52	1	btl	Buffered Peptone Water
			☐ <i>Pre-enrichment broth</i>
			☐ <i>used for isolation and culturing of bacteria.</i>
			☐ <i>supplied in 500g/bottle</i>
53	1	pc	Burette with Glass Stopcock
			☐ <i>Burette with Glass Stopcock</i>
			☐ <i>Material: Glass/Borosilicate Glass</i>
			☐ <i>Capacity: 50mL</i>
			☐ <i>For Acid</i>
54	1	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>

			☐For Base
55	3	pc	Butyrometer for milk 0-10%
			<i>Milk butyrometer 0 – 10 %: 0.1 (accessory: 3280),glass</i>
56	1	btl	Calcium carbonate, AR 500g
57	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
58	1	btl	Carbon Disulfide 500mL
			<i>Analytical Reagent Grade 500mL per bottle</i>
59	2	btl	Carmine Powder, AR, 25g/btl
			<i>Carmin powder is a red compound used for staining.</i>
60	2	pack	Centrifuge (Conical) Tubes, 15mL Capacity
			☐With graduations and marking spot.
			☐Screwcap (plugseal)
			☐Sterile. RNase-/DNase-free.
			☐Non-pyrogenic
			☐Polyethylene terephthalate (PET) material
			☐At least 3600 centrifugal force (x g)
			☐Pack of 50 Tubes
61	2	pack	Centrifuge (Conical) Tubes, 50mL Capacity
			☐With graduations and marking spot.
			☐Screwcap (plugseal)
			☐Sterile. RNase-/DNase-free.
			☐Non-pyrogenic
			☐Polyethylene terephthalate (PET) material
			☐At least 3600 centrifugal force (x g)
			☐Pack of 25 Tubes
61	2	pack	Centrifuge (Conical) Tubes, 50mL Capacity
			☐With graduations and marking spot.
			☐Screwcap (plugseal)
			☐Sterile. RNase-/DNase-free.
			☐Non-pyrogenic
			☐Polyethylene terephthalate (PET) material
			☐At least 3600 centrifugal force (x g)
			☐Pack of 25 Tubes
62	2	unit	Centrifuge Rack, Multifunction
			<i>For storage and general-purpose</i>
			<i>Fit for 10mL, 15mL, 50mLl centrifuge tubes</i>

			<i>The centrifuge tube rack can be disassembled and easily assembled.</i>
			<i>The centrifuge tube rack after assembly has two layers</i>
			<i>Holds 30 pcs of 15 mL tubes and 20 pcs of 50mL tubes</i>
63	1	pack	Centrifuge Tube 10 mL
			<i>Material: Polypropylene</i>
			<i>Type of the Bottom Tube: Either Conical or Free-Standing</i>
			<i>Type of Cap: Flat Cap</i>
			<i>Graduation: Graduated from 1.5mL to 10mL in 0.5mL segments.</i>
64	1	pack	Centrifuge tube, 50 ml, sterile
			<i>polypropylene, free standing, flat screw cap, 25 pcs/pack</i>
65	1	pack	Centrifuge tubes, 15 ml, sterile
			<i>polypropylene, flat screw cap, 25 pcs/pack</i>
66	2	gal	Chlorine
			<i>Liquid;</i>
67	2	btl	Chloroform 2.5L
			<i>Analytical Reagent Grade 2.5L per bottle</i>
68	1	unit	Commercial Yogurt Machine
			<i>Specification</i>
			<i>Item: Commercial Yogurt Machine Intelligent With Refrigeration Multifunction Winemaking Fermentation Produce Equipment Fully Automatic</i>
			<i>Voltage: 220V</i>
			<i>Fermentation Power: 1000W</i>
			<i>Refrigeration Power: 280W</i>
			<i>Size: 650*700*1850mm</i>
			<i>Fermentation Temperature: 0~60 °C</i>
			<i>Refrigeration Temperature: 2~8 °C</i>
			<i>Capacity: 388L</i>
			<i>Refrigeration Method: Air Cooling</i>
			<i>Control Method: Computer Touch Screen</i>
69	40	pc	Condom or Rubber Sheath
			<i>material: Latex rubber</i>
70	1	unit	Custom oligo primers
			<i>■HPLC-CE purified</i>
71	1	btl	Cyclohexene
			<i>Analytical Reagent Grade 2.5L per bottle</i>
72	1	btl	D-(+)-Maltose monohydrate, AR
			<i>Analytical Standard</i>
			<i>HPLC suitable</i>
			<i>Size: 500 mg per bottle</i>
73	1	unit	Deep Freezer w/ surge protector (AVR)
			<i>Specifications:</i>
			<i>< Rated Voltage: 230V</i>

			< Rated Frequency: 60Hz
			< Rated Power Input: 216W
			< Rated Current: 1.OA
			< Weight: 51kgs
			< Refrigerant/ Amount: R134a/125g
			< Climate: T
			< Classification of Anti- electric Shock: OI
			< Volume-365 L
			< Energy Consumption-1.78Kw-h/24h
			< Stainless Steel
			<7 cubic meters
			< -50 degrees Celsius (Negative 50 degrees Celsius)
			< Dual Compartment
			< Any Color
			< With Safety Lock
			< Interior Light
74	3	box	Delicate Task Wipes
			■4.4 x 8.4 inches (11 x 21 cm)
			■at least 280 sheets/box
			■lint-free
75	1	pc	Dessicator, Glass
			■ Dessicator, Glass, 300mm (12")
76	1	unit	Dial Instant-Read Kitchen Thermometer (Bimetal)
			Reads in 15-20 seconds
			Place 2 - 2 1/2 deep in the thickest part of food
			Can be used in roasts, casseroles, and soups
			Temperature is averaged along probe, from tip to 2-3" up the stem
			Cannot measure thin foods unless inserted sideways
			Not designed to remain in food while it is cooking
			Use to check the internal temperature of a food at the end of cooking time
			Can be calibrated
77	1	unit	Digital Water Bath
			Controller Type: Digital
			Temperature Range: 100°C
			Material: Stainless Steel
			Temperature Accuracy: ±1°C
			Shipping Weight (Metric): 2.13 kg
			Capacity (Metric): 3.0 L
			Includes: Cover is included
			Power Consumption: 300W, 110V, 50 Hz
			Shipping Weight (English): 4.7 lb.
78	1	unit	Digital Weighing Scale- 0.01-5kg
			■Capacity: 0.01g to 5kg
			■Type: Laboratory Balance
			■Power Supply: 100-240V/50-60H
			■Size: 320*205*100mm

79	1	kit	DNA Extraction kit for plant samples
			<i>50 reactions in the kit</i>
80	1	kit	DNA Extraction kit for soil samples
			<i>50 reactions in the kit</i>
81	1	kit	DNA Taq polymerase, 500 U/tube/kit, with MgCl₂ and PCR buffer in the kit
82	5	pc	Drager Aspirator Bulb
83	2	unit	Drying Oven for Laboratory
			<i>Drying Oven</i>
			<i>Item Specification</i>
			<i>Stainless steel interior:</i>
			<i>< Dimensions -w(A) x h(B) x d(C): 400 x 560 x 330 mm (d less 39 mm for fan)</i>
			<i>< Interior- easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and</i>
			<i>protected large-area heating on four sides</i>
			<i>< Volume 74 l</i>
			<i>< Max. number of internals 6</i>
			<i>< Max. loading of chamber 120 kg</i>
			<i>< Max. loading per internal 20 kg</i>
			<i>Textured stainless steel casing:</i>
			<i>< Dimensions w(D) x h(E) x d(F): 585 x 944 x 514 mm (d +56mm door handle)</i>
			<i>< Housing rear zinc-plated steel</i>
			<i>Electrical data</i>
			<i>< Voltage - 230 V, 50/60 Hz</i>
			<i>< Electrical load - approx. 2500 W</i>
			<i>< Voltage - 115 V, 50/60 Hz</i>
			<i>< Electrical load - approx. 1800 W</i>
84	1	pc	Erlenmeyer Flask, Glass, 1L, good quality
85	5	pc	Erlenmeyer Flask, Glass, 250mL
			☐Material: Borosilicate Glass
			☐Good Quality
86	2	pc	Erlenmeyer Flask, Glass, 500ml
			☐Material: Borosilicate Glass
			☐Good Quality
87	5	pc	Erlenmeyer Flask, Glass, 500mL
			☐500mL capacity, borosilicate glass
88	1	btl	Ethanol (Ethyl alcohol)
			☐95%,
			☐4 Liters,
			☐Analytical Grade
89	2	btl	Ethanol Absolute
			<i>2.5 Liters/ bottle;</i>
90	3	canister	Ethyl Alcohol (95%)
			☐95%
			☐Container size: Plastic waterjug (20L)

91	1	pack	Filter paper
			<i>Specifications:</i>
			<i>-Glass microfiber filters</i>
			<i>- Diameter: 47 mm</i>
			<i>-Pore size: 1.2 μm or 1.5 μm</i>
			<i>-100 pcs per pack</i>
92	5	pc	Finepoint High Precision Forceps
			☐ <i>Tip Style: Fine</i>
			☐ <i>Material: Stainless Steel</i>
			☐ <i>Length 4.5"</i>
93	1	btl	Formaldehyde
			<i>Analytical Reagent Grade 2.5L per bottle;</i>
94	1	btl	Fructose
			<i>Analytical Reagent Grade, 500g per bottle</i>
95	1	btl	Gibberellic Acid 100g
			<i>Gibberellic Acid (GA3), 90%</i>
			<i>Appearance (color) - white to off-white</i>
			<i>Appearance (form) - Crystalline powder</i>
			<i>Solubility (turbidity) 5% solution in Methanol clear</i>
96	1	btl	Giemsa stain set
			<i>Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml</i>
97	1	btl	Glacial Acetic Acid, Analytical Standard
			<i>Certified analytical standard</i>
			<i>HPLC and GC suitable</i>
			<i>Size: 2.5L per bottle</i>
98	15	box	Glass Jar 8oz
			☐ <i>Clear</i>
			☐ <i>8oz</i>
			☐ <i>M-7177</i>
			☐ <i>with cap</i>
			☐ <i>24pcs/box</i>
99	5	pc	Glass Stirring Rod 12 inch, 10mm dia.
			<i>12 inch long, 10 mm diameter</i>
			<i>Borosilicate Glass 10</i>
100	4	box	Gloves, Nitrile, Large
			☐ <i>Glove Type: Chemical Resistant Disposable Gloves</i>
			☐ <i>Glove Material: Nitrile</i>
			☐ <i>Powder-Free</i>
			☐ <i>1 box of 100 or 50 pairs</i>
			☐ <i>Food Safe</i>
			☐ <i>Size: large</i>
101	3	box	Gloves, Nitrile, Medium
			☐ <i>Glove Type: Chemical Resistant Disposable Gloves</i>
			☐ <i>Glove Material: Nitrile</i>
			☐ <i>Powder-Free</i>
			☐ <i>1 box of 100 or 50 pairs</i>
			☐ <i>Food Safe</i>

			☐Size: Medium
102	1	btl	Glycerin 1L/Bottle, AR
103	2	pc	Graduated Cylinder, Glass, 1000mL
			☐Material: Borosilicate Glass
			☐Good Quality
104	7	pc	Graduated Cylinder, Glass, 100mL
			☐Type 1, Class A Borosilicate Glass
105	7	pc	Graduated Cylinder, Glass, 250mL
			☐Material: Borosilicate Glass
			☐Good Quality
106	2	pc	Graduated Cylinder, Plastic, 1000mL
			Plastic, 1000ml (1L) capacity for Particle Size Analysis
107	2	set	Hemaquick Stain
108	5	pc	High Precision Stainless Steel Digital Vernier Caliper
			6 inches; 0.01-0.025 mm accuracy
109	1	unit	Hygrometer Thermometer Indoor Humidity Monitor, Temperature Humidity Meter Room Thermometer Gauge In
			* Power supply: Station:2 x AAA 1.5V batteries(not included); Sensor: 2 x AAA 1.5V batterie(Battery not included).
			* Backlight LCD Display
			* with Remote Sensor
110	1	pack	Inoculating Loop Stainless Steel
			☐10PCS 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology
111	1	btl	Iodine-Potassium Iodide Solution, 500ml/bottle Laboratory Grade
112	1	unit	Laboratory Refrigerator
			Temperature Control Microprocessor control, Large LED display inner temperature clearly, and with easy view The inner temperature can be adjustable at the range of 2°C~8°C with an increment of 0.1; Multiple sensors to display or control the temperature; The Lowest and Highest temperature recorded value record.
			Safety Control Malfunction alarms: high-temperature alarm, low-temperature alarm, Power failure alarm, Door jammed, low voltage of backup battery. Over temperature alarm system, set the alarm temperature as requirements; Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm; Protection function: power-on delay, time between stops; Temperature recorder monitor system (Optional) . Refrigeration System Highly efficient famous brand compressor and fan; Forced-air circulation for large airflow with special air ducts to

			<i>guarantee inner temperature consistency. Large area of the evaporator design, cooling strong and high-temperature uniformity, While effectively suppressing frost, reducing defrosting process.</i>
			<i>CFC-Free/HCFC refrigerant.Ergonomic Design Safety door lock, preventing unauthorized access; Auto defrost function guarantees a good performance in high ambient temperature and humidity area; Wide voltage design from 192V to 242V; Inner LED lighting and caster design; No condensation glass door; Adjustable shelf design ; Foaming door is optional; Stopper on rear against back wall. Cabinet Type Vertical Climate Class ST Cooling Type Forced air cooling Defrost Mode Auto Refrigerant HC, R600a Cooling performance(°C) 4 Temperature Range(°C) 2 ~8 Controller Microprocessor Display LED Alarm Audible, Remote Interior Galvanized steel powder coating (white) Exterior Galvanized steel powder coating (white) Power Supply(V/Hz) 220/50 Power(W) 240 Capacity(L) 395 Net/Gross Weight(approx) 95/115 (kg) Interior Dimensions(W*D*H) 500×510×1550 (mm) Exterior Dimensions(W*D*H) 600×650×1785 (mm) Packing Dimensions(W*D*H) 660×710×1885 (mm) Container load (20'/40'/40'H) 27/54/54 High/Low Temperature Y Remote Alarm Y Power Failure Y Sensor Failure Y Low Battery Y Door Ajar Y Lockage Y Inner LED light Y Foot N Caster Y Test Hole Y Shelves/Inner Doors 6/- Foaming Door optional USB Interface Y Temperature Recorder optional</i>
113	1	unit	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity
			<i>Material of plate : ceramic coating</i>
			<i>Speed(RPM) : 0-1600RPM</i>
			<i>Heating Power : 600W</i>
			<i>Plate Size : 19 * 19 cm</i>
			<i>Heating Temperature : 350 °C</i>
114	20	pc	Laboratory Stool/Chair, Wheeled
			<i>Anti-static stool</i>
			<i>Adjustable height: at least 40-60 cm</i>
			<i>Weight capacity: at least 300lbs</i>
			<i>Ergonomic with hip to mid-waist level back support</i>
			<i>With round footrest/ foot ring</i>
			<i>Anti-slip seat material: Rugged polyurethane</i>
			<i>No. of wheels: 5</i>
			<i>Standard style w/polished aluminum base: 20"-30"</i>
			<i>Seat shape: Round</i>
			<i>Color: Black</i>

115	4	unit	Laboratory working table
			<i>Frame: steel structure; Cabinet: use high quality galvanized steel sheet, surface coated with epoxy powder; Table top: made of 12.7mm thickness corrosion-resistant black phenolic resin board, with 25.4mm thickness edge sealing; Hinges: open type high quality hinges, self-closing; Handle: aluminum dark type handle, with 3 pcs sockets and covers, 220V</i>
116	2	btl	Labware Detergent or Laboratory Dishwashing Liquid
			☐ <i>Suitable for manual, ultrasonic, and machine washing</i>
			☐ <i>Completely biodegradable</i>
			☐ <i>Free of phosphate, chlorine, enzyme, and EDTA</i>
			☐ <i>Contains anionic and cationic surfactants</i>
			☐ <i>5 liters per bottle</i>
117	1	btl	Lactophenol Cotton Blue 500ml/bottle
			<i>Stain solution for fungi.</i>
			<i>500ml/bottle</i>
118	2	btl	Lactose
			<i>AR. 500 grams;</i>
119	1	packs	Lens Tissues, 25 Sheets per Booklet, 5 Booklets
120	1	btl	Lithium Chloride
			☐ <i>Anhydrous</i>
			☐ <i>Lab grade/Analytical reagent grade</i>
			☐ <i>Expiration date(3 years from the delivery date)</i>
			☐ <i>Packed in Teflon bottles</i>
121	2	box	Litmus Paper (Blue)
			<i>Blue Litmus Test Paper</i>
			<i>Blue Litmus test paper is a foolproof pH test to determine if something is acidic. The Blue Litmus test paper does not come with a color chart as it cannot provide you with a defined pH value. The test strip will turn red if dipped into an acidic solution (pH <7). It will remain unchanged in an alkaline solution. Although there is no color chart, the strip will turn various shades of red, getting darker the more acidic the solution. We have tested the blue litmus with multiple pH buffers. The blue paper is blue at pH 8. At pH 7, the sample is maybe just a little red. The real change to red seems to start with pH 6.5 and lower.</i>
			<i>Strip Quantity: 100 strips</i>
			<i>Other: Additional sheet sizes available upon request</i>
			<i>Vial Dimensions: .75" (D) x 2.75" (H) [19mm (D) x 70mm (H)]</i>
			<i>Strip Dimensions: 1.875" (L) x .25" (W) [48mm (L) x 6mm (W)]</i>

			Box Dimensions: 10" x 10" x 2.75" [29.8 cm x 19 cm x 7 cm] (144-pack box), 21" x 14.75" x 3" [53.3 cm x 37.5 cm x 7.6 cm] (500-pack box), 3.25" x 2.375" x 3" [8.3 cm x 6 cm x 7.6cm] (12-pack box), 5" x 3.5" x 3" [12.7 cm x 8.9 cm x 7.6 cm] (25-pack box)
			Weight: 0.02 lbs [9 g] (single vial)
			Other: Stored in a pocket-sized, lightweight vial.
			Shelf-Life: 3 Years Minimum
122	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
123	2	btl	Malachite green oxalate
			☐reagent and microscopy grade
			☐25 grams/bottle
124	7	btl	Malt Yeast Extract Agar
			☐Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation
			☐pH: 4.7±0.2 at 25°C
			☐solubility: without rests
			☐Appearance: fine powder
			☐100 grams
125	3	pack	Mannitol (AR) 500g
			☐Mannitol (AR)
			☐Formula: C6H14O6
			☐Molecular Wt. 182.172g/mol.
126	1	lot	Manual Sphygmomanometer, Automatic Blood Pressure Monitor, Pulse Oximeter, Stop Watch, Alcohol Thermo
			Manual Sphygmomanometer, Automatic Blood Pressure Monitor, Pulse Oximeter, Stop Watch, Alcohol Thermo, Dissection pans with wax, Dissection pans with wax, Bone saw, Teasing needles, Dissect, Serrated forceps, Thumb forceps, Fine-tip forceps, Scalpel handle, boxes Surgical blades, Mayo Dissecting scissors,
			Push carts, Sedgewick-Rafter Counting Cell
			Item Specification
			2 pcs. Manual sphygmomanometer
			with calibration key
			Measure scope 0-300mmHg
			Accuracy: +/-33mmHg
			Sub-division: 2mmHg
			2 pcs. Digital sphygmomanometer/Automatic Blood

			<i>Pressure Monitor</i>
			<i>clinically validated</i>
			<i>body movement detection</i>
			<i>blood pressure level indicator</i>
			<i>irregular heartbeat detection</i>
			<i>measurement memory storage</i>
			<i>average for last 3 readings within 10 minutes</i>
			<i>intellisense technology</i>
			<i>2 pcs. Pulse oximeter</i>
			<i>Pulse Rate, Blood Oxygen Saturation (SpO2), Heart Rate</i>
			<i>Measurement range: 70~99%</i>
			<i>Resolution: 1% Power Source:</i>
			<i>Rechargeable Accuracy: 3% (70%~99%)</i>
			<i>Measurement range: 30~240 bpm</i>
			<i>Resolution: 1% Accuracy: 2bpm or 2% (select larger)</i>
			<i>Low Perfusion: 0.4%</i>
			<i>Working Current: 30mA</i>
			<i>Dimension & Weight: 58*36*33mm, 32g</i>
			<i>2 pcs Stop Watch</i>
			<i>Large screen. display</i>
			<i>Counts up to 24 hours with a resolution of 1/100 second</i>
			<i>with lap function, alarm, clock, and calendar</i>
			<i>Includes battery</i>
			<i>10 pcs. Alcohol Thermometer 200 °C</i>
			<i>unit scale: degree Celsius</i>
			<i>range: max 200 degree Celsius</i>
			<i>length: approx 30cm</i>
			<i>material: traditional glass</i>
			<i>alcohol thermometer mounting: tube type</i>
			<i>Item Specification</i>
			<i>>10 pcs. Dissection pans with wax Dimensions: 16x9 inches- Aluminum/stainless steel material</i>
			<i>>20 pcs. Dissection pans with wax 10x7.5 inches- Aluminum/stainless steel material</i>
			<i>>5 pcs. Bone saw</i>
			<i>>30 pcs. Teasing needles Stainless steel handle with a straight metal probe</i>
			<i>>30 pcs. Dissecting probe Stainless steel handle with a bent needle</i>
			<i>>30 pcs. Serrated forceps Stainless steel material, medium points, serrated tips -6 inches long</i>
			<i>>30 pcs. Thumb forceps Stainless steel material, smooth tip</i>
			<i>>30 pcs. Fine-tip forceps Stainless steel material, straight tip</i>
			<i>>40 pcs. Scalpel handle (size 4) without blade Stainless steel material with satin finish</i>

			>2 pcs. boxes Surgical blades Size 21
			>1 box Surgical blade Size 10
			>1 box Surgical blade Size 11
			>30 pcs. Mayo Dissecting scissors Stainless steel material, straight bladed scissors
			>30 pcs. Mayo dissecting scissors Stainless steel material, Curved bladed scissors
			>5 pcs. Push carts Stainless steel With wheels 30inches height 3 layers
			5pcs. Sedgewick-Rafter Counting Cell
			Item Specification
			Material: Brass and Glass
			Lenght (") 3
			Sample volume: 1.0 ml, cell size 50x201x1mm
			Width(cm): 2.54
			Lenght (cm): 7.62
			Description: Gridded Sedgewick-Rafter Counting Cell, brass, 1.0ml
127	1	btl	Marine Agar, 500g/bottle
128	1	btl	Marine Broth, 500g/bottle,AR
129	1	btl	Methyl orange, Sodium salt
			☐CAS 547-58-0
			☐25g
			☐Orange Solid, Crystalline
			☐Analytical Grade
130	1	unit	Microcentrifuge Rack with Cover, Reversible (2 mL/ 1.5 mL)
			☐Polypropylene (PP)
			☐Autoclavable
			☐Excellent rack for benchtop use or freezer storage.
			☐Excellent chemical & temperature resistance
			☐80/60 well rack capacities:
			☐80-Place for 1.5 & 2.0mL tubes
			☐60-Place for 0.5 & 0.2mL tubes
			☐With lid or cover
131	1	pack	Microcentrifuge Tube, 2.0 ml, 1000pcs/pack, clear
			Attach snap cap;
132	2	pack	Microcentrifuge Tubes (1.5mL Capacity)
			☐1.5mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable
133	2	pack	Microcentrifuge Tubes (2.0mL Capacity)
			☐2.0mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable

134	1	unit	MicroPette Plus Autoclavable 100-1000ul Variable Single-Channel Pipette
			<i>Variable or Fixed Volume: Variable Volume</i>
			<i>Volume Range Min (uL): 100</i>
			<i>Volume Range Max (uL): 1000</i>
			<i>Accuracy (%/uL): 0.60/0.70/2.00</i>
135	2	pack	Micropipette Tip, 1000 uL
			☐ <i>capacity, 1000 uL</i>
			☐ <i>Standard tip, graduated</i>
			☐ <i>Autoclavable</i>
			☐ <i>Pack of 1000 tips</i>
136	1	pack	Micropipette Tip, 200 uL
			☐ <i>capacity, 200 uL</i>
			☐ <i>Short tip, graduated,</i>
			☐ <i>Autoclavable</i>
			☐ <i>Pack of 1000 tips</i>
137	16	box	Microscope Slides and cover slips
			☐ <i>Pre-Cleaned Blank slides with 50pcs./box 22 x 22 mm square Cover Slip</i>
138	2	unit	Microscope with Camera Lucida with Storage Cabinet
			<i>Stereo microscope with drawing tube (camera lucida) and dry storage cabinet</i>
			<i>Specification:</i>
			<i>Zoom ratio: 10:1</i>
			<i>Zoom range: 0.75x-7.5x</i>
			<i>Zoom control: Dual, graduated, bilateral amount</i>
			<i>Focus: Course and fine focus</i>
			<i>Magnification: 7x-45x (10x eyepieces)</i>
			<i>Viewing head: Tilting ergonomic binocular viewing head</i>
			<i>Revolving nosepiece: manual, standard type</i>
			<i>Extendable Eyepoint adjuster: yes</i>
			<i>Camera port: yes, camera mount adapter</i>
			<i>Attachment for drawing tube: yes</i>
			<i>Drawing tube or camera lucida: yes, detachable</i>
			<i>Transmitted light stand: yes - brightfield/darkfield light base</i>
			<i>Primary light: 6V 30W</i>
			<i>Accessory light: 6V 30W</i>
			<i>Light type: Halogen</i>
			<i>Stage plate: clear and black</i>
			<i>Objective dust cover: yes</i>
			<i>Power cord: yes</i>
139	5	pc	Mixing bowl Stainless Steel
			<i>Features: 1. Made of premium stainless steel, shiny, scratch-resistant, rust-resistant. 2. It won't stain or absorb odors, easy to wash the bowls in the dishwasher or by hand. 3. A wide rim ensures</i>

			<p>contents to flow evenly when pouring. Its rolled rim allows the user to have a sturdy grip every time they handle the bowls. 4. Ideal for serving fruit salads, marinating for the grill, and adding last ingredients for dessert. With a lid design for healthier food storage. 5. Multi-sizes are available, bowls of different size can nest inside each other to save space in kitchen cabinets, cupboards, and countertops. Specifications: Material: Stainless Steel Color: as pictures show #MixingBowl #StainlessSteelMixingBowl #BakingBowls #StainlessSteelSaladBowl #KitchenCookingTools</p>
			size: 5L, 12 cm Hx26cmHx26cmWx26cmD
140	2	btl	Molybdic acid (sodium salt) (Na₂MoO₄, 2H₂O) suitable for plant cell and tissue culture
			500grams, AR;
141	2	pc	Mortar and Pestle (small), Porcelaine
142	2	btl	Myo-inositol suitable for plant cell and tissue culture (100gms)
143	1	unit	Nerve Muscle Assembly/ Kymograph Assembly
			Specification:
			Universal Kymograph (speeds 0.12, 0.25, 1.25, 2.5, 12.5, 25, 320, 640 mm/sec) with inbuilt Stimulator
			Muscle and heart Bath with pair of electrodes, lever assembly, pin and ink marker
			Hook and weight set, set of 11g
			Hook and weight set, set of 110g
			Time marker
			Marriote bottle and stand
			Kymograph paper
			Dissection box
			Dissection tray
			Pithing needle
			Muscle clip
			Connecting wire
144	1	btl	Ninhydrin (1,2,3 -Indanetrione monohydrate), 25g
			☐CAS 485-47-2
			☐White solid
			☐50g
			☐Analytical Grade
145	2	box	Nitrile Gloves, Medium
			Glove Type: Chemical Resistant Disposable Gloves
			Glove Material: Nitrile
			Powder-Free
			1 box of 100 or 50 pairs
			Food Safe
			Size: medium
146	2	btl	Nutrient Agar, 500g Bottle
			to be used for the culture of test organisms

			<i>nutrient medium used for the cultivation of microbes supporting growth of a wide range of non-fastidious organisms</i>
			<i>500g bottle</i>
			<i>recommended for the cultivation of less fastidious microorganisms from clinical and nonclinical samples. It can be enriched with blood or other biological fluids.</i>
			<i>Ingredients:</i>
			<i>Peptone - 5 gms/liter</i>
			<i>HM Peptone B # - 1.50 gms/liter</i>
			<i>Yeast Extract - 1.50 gms/liter</i>
			<i>Sodium Chloride - 5.00 gms/liter</i>
			<i>Agar - 15.00 gms/liter</i>
			<i>Final pH (at 25 °C) 7.4±0.2</i>
			<i>**Formula adjusted, standardized to suit performance parameters</i>
			<i>*Equivalent to Beef extract</i>
147	1	btl	Paraformaldehyde
			☐ <i>Reagent or analytical grade</i>
			☐ <i>For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies</i>
			☐ <i>Crystalline form</i>
			☐ <i>Bottle of 25g</i>
148	45	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>
149	1	btl	Peptone
			☐ <i>500g for bacteriological work</i>
150	2	gal	Petroleum Ether, AR
151	1	unit	pH / Temperature Laboratory Bench Meter
			☐ <i>Advanced pH/Temp microprocessor-based bench meter. It is ideal for students and technicians who need fast and reliable measurements.</i>
			☐ <i>This meter is provided with a series of new diagnostic features which add an entirely new dimension to the measurement of pH, by allowing the user to dramatically improve the reliability of the measurement:</i>
			◀ <i>Automatic Temperature Compensation (ATC) for good accuracy under fluctuating temperatures</i>
			◀ <i>Easy to read large custom LCD</i>
			◀ <i>Easy and Quick Push-button Calibration</i>
			◀ <i>7 memorized buffers (pH 1.68, 4.01, 6.86, 7.01,</i>

			9.18, 10.01 and 12.45) for calibration
			◀Messages on the LCD to make the calibration easy and accurate
			◀User-selectable "calibration time out" to remind when a new calibration is necessary
			◀Stability Indicator prompts whenever reading stabilizes.
			◼Moreover, it offers an extended temperature range from -20°C (-4°F) to 120°C (248°F), using the MA831R interchangeable temperature probe.
			◼Specific Details:
			◀Range: pH -2.00 to +16.00 pH
			◀Temp.: -20.0 to +120oC / -4.0 to +248oF
			◀Resolution: pH 0.01pH
			◀Temp.: 0.1oC (0.1oF)
			◀Accuracy: pH +/- 0.01 pH (@20oC / 68oF) Temp.: +/- 0.4oC / +/- 0.8oF
			◀Typical EMC pH: +/- 0.02 pH
			◀Deviation Temp.: +/- 0.4oC / +/- 0.8oF
			◀pH Automatic Calibration: 1 or 2 point calibration, with 7 memorised buffers
			◀Offset Calibration: +/- 1 pH
			◀Slope Calibration: from 80 to 108%
			◀Temperature Compensation: automatic, from -20.0 to +120oC / -4.0 TO +248oF or manual, without temperature probe
			◀pH electrode: MA 917B/1 (included) double junction refillable glass pH electrode
			◀Temperature probe: MA 831R (included) Environment: 0 to 50oC / 32 to 120.0oF; max. RH 95% Input impedance: 10 ¹² ohm
			◀Power supply: 12 VDC power adaptor (supplied)
			◀Dimensions: 230W x 160D x 95H mm. Weight: 0.9 kg.
152	1	pc	pH Meter pen type
			◼0.1 pH resolution
			◼water-resistant/proof
153	1	btl	Pharmaceutical Agar, AR, 500g/bottle
154	1	btl	Phenolphthalein
			25 grams per bottle
			Description: White crystalline powder
155	2	kit	phi25 DNA polymerase, RCA kit
156	2	pack	pH-indicator paper pH 1 - 14 Universal indicator
			Booklet size: 4.5 CM x 6.5 CM, with colour scale, pH 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14
			pH indicator papers Booklet size: 4.5 CM x 6.5 CM are perfectly suited for longterm storage, since they are protected against external influences, such as

			moisture, light, and ambient gases. These pH indicator papers are manufactured by impregnating high-quality filter paper with indicator or mixed-indicator solutions. The paper is always ready to use; it is easily pulled out of the plastic reel and can be torn off in the necessary length. The pH value is measured semi-quantitatively by visual comparison of the color formed on the paper with the fields of the color scale.
			PROPERTIES
			Quality Level 100
			feature non-bleeding: no
			graduations and accuracy measuring range accuracy: 1 pH unit
			roll L 4.8 m , with color scale
			pH range 1-14
			detection method colorimetric
			storage temp. 15-25°C
157	1	packs	Pipette Tips (20 ul)
			☑20 ul capacity
			☑autoclavable
			☑100 pcs per pack
158	1	set	Portable Moisture Tester for Grain with Digital Meter Readout, Grain Tester with Carry Case
			Specification:
			Backlit display for nighttime use
			Built-in calibration button for displaying the average of saved test results
			Multi-language display
			Higher-frequency, capacitive circuit improves accuracy
			Moisture range: 5% to 40% depending on grain tested
			Temperature range: 32° to 113°F (0° to 45°C)
			Repeatability & Accuracy: ± 0.5% in normal moisture range for stored grain
			Single-point or Precision multi-point calibration to match local elevator
			Direct readout for 40 different grain scales
			Case color: Black
			Material: Plastic
			Power source: Battery-powered
			Voltage: 9 Volts
			Certification: certified frustration-free
			Battery included: yes
			Includes Protective carrying case with shoulder strap
			with warranty
159	1	unit	Portable Suction Machine

			<p>Portable Phlegm Suction Unit can be used for suctioning sputum and other thick secretions in hospitals, and may also be used for first aid in the household. The machine adopts oil-free lubricating pump, avoiding the pollution of oil mist. The pump requires no daily maintenance and servicing. The overflow protection device in the machine prevents liquids from flowing into the pump. The machine is characterized with small dimensions, light weight and high mobility.</p>
			Suction Machine
			Power voltage: 220v/60Hz
			Lightweight and Portable
			For use in bronchial and oral hygiene to provide effective airway clearance and control infection
			Oil-free Pump
			Heavy Duty
			Power voltage: AC 220V
			Negative pressure: $\geq 0.075\text{Mpa}$
			Suction rate: $\geq 19\text{L/min}$
			Negative pressure regulating range: $-0.013 \sim -0.07\text{MPa}(490\text{mmHg})$
			Suction bottle: 1000ml
			Noise: $\leq 65\text{dB}$
			Input Power: 150VA
			Pump Structure: Self-lubrication without oil
			Working type: Intermission
160	1	btl	Potassium Acetate 500G/btl
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
161	1	btl	Potassium Carbonate, 500G/btl
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
162	1	btl	Potassium Chloride, AR, 1000g
163	2	btl	Potassium dichromate, AR Grade
			☐500 grams/poly bottle
164	1	btl	Potassium Hydroxide
			☐Flakes
			☐Analytical Grade
			☐1kg
165	1	btl	Potassium Iodate 500g
			Analytical grade
166	1	btl	Potassium iodide, KI
			☐Analytical reagent grade, powder, 500g/bottle
167	4	kg	Potassium Nitrate

			<ul style="list-style-type: none"> ☐AR grade
			<ul style="list-style-type: none"> ☐Formula: KNO₃
			<ul style="list-style-type: none"> ☐Molar wt: 101.1032 g/mo
			<ul style="list-style-type: none"> ☐1kg/pack
168	1	btl	Potassium permanganate, ACS reagent, ≥99.0% Crystals
			100grams/bottle
169	2	btl	Potassium Phosphate (KH₂PO₄) suitable for plant cell and tissue culture
			500 grams
170	1	btl	Potato Dextrose Agar (500g)
			Powder form
171	1	btl	Potato Dextrose Agar (PDA), 500 grams
172	1	box	Razor Blade, Box of 25pcs
173	2	Vial	Red Litmus Test Paper
			<i>Red Litmus test paper is a foolproof pH test to determine if something is a base. The Red Litmus test paper does not come with a color chart as it cannot provide you with a defined pH value. The test strip will turn blue if dipped into an alkaline solution (pH >7).</i>
			<i>Strip Quantity: 100 strips</i>
			<i>Vial Dimensions: .75" (D) x 2.75" (H) [19mm (D) x 70mm (H)]</i>
			<i>Strip Dimensions: 1.875" (L) x .25" (W) [48mm (L) x 6mm (W)]</i>
			<i>Box Dimensions: 10" x 10" x 2.75" [29.8 cm x 19 cm x 7 cm] (144-pack box), 21" x 14.75" x 3" [53.3 cm x 37.5 cm x 7.6 cm] (500-pack box), 3.25" x 2.375" x 3" [8.3 cm x 6 cm x 7.6cm] (12-pack box), 5" x 3.5" x 3" [12.7 cm x 8.9 cm x 7.6 cm] (25-pack box)</i>
			<i>Weight: 0.02 lbs [9 g] (single vial)</i>
			<i>Other: Stored in a pocket-sized, lightweight vial.</i>
			<i>Shelf-Life: 3 Years Minimum</i>
174	1	kit	Reverse transcriptase, 200000 units/ml concentration, 10000 units/tube/kit
175	1	kit	RNA Extraction kit for soil samples
			<i>50 reactions in the kit</i>
176	1	kit	RNA Extraction kit, 50 reactions, for plant samples
			<i>50 contents in the kit;</i>
177	3	box	Scalpel Blade
			<ul style="list-style-type: none"> ☐Stainless steel
			<ul style="list-style-type: none"> ☐100 blades/box
178	1	btl	Seliwanoff's Reagent
			<i>Technical grade (100mL per bottle)</i>
179	12	pc	Serological Glass Pipette, 50mL
			<i>Autoclavable</i>
			<i>Borosilicate glass</i>

			Graduation: 1mL Intervals
			Capacity: 50mL
180	5	tubes	Shelby Tube, 2.5in Diameter X 36in Long
			Note: Size is OD. All tubes are 16 gauge steel.
			3" and 5" tubes are galvanized
181	2	bag	Silver Aluminum Foil Zip Lock Pouches
			Color: silver
			Size: approx. 7*5cm
			Quantity: 100pcs
			Boil-able, freezable and reusable Not transparent, high reflection
182	1	btl	Sodium Bicarbonate
			☐Sodium Bicarbonate Powder
			◀USP Pharmaceutical Grade
			◀CAS: 13-34799
			◀HIGHEST QUALITY
			◀Aluminum Free
			◀1-kg bottle
183	1	btl	Sodium Chloride
			Analytical Reagent Grade 500g per bottle
184	1	btl	Sodium Iodide
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
185	1	btl	Sodium phosphate monobasic, NaH₂PO₄
			Analytical grade
			For use as enzyme buffer and other chemical assays
			Bottle of at least 500g
186	1	unit	Soft Ice Cream Machine
			Voltage: 110V/60Hz
			Total Power: 1000W
			Ice Cream Output: 2.6-5.3 Gal / 10-20 L per Hour
			Hopper Capacity: 1.2 Gal / 4.5 L
			Cylinder Capacity: 0.4 Gal / 1.6 L
			Compressor: 430W Embraco
			Refrigerant: R290a
			Working Temperature: 41-95°F / 5-35°C
			Product Dimensions: 21.7"x8.3"x26.8" / 550x210x680 mm
			Product Weight: 99.2 lbs / 45 kg
187	3	pack	Sorbitol (AR) 500g
			☐Sorbitol (AR)
			☐Chemical Formula: C ₆ H ₁₄ O
			☐Molecular Wt. 182.172 g/mol.
188	10	pc	Stirring Rod
			☐big size, => 10 inches long, fire polished ends with

			<i>no policeman</i>
189	1	btl	Strontium Chloride
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
190	2	btl	Sucrose
			Analytical Reagent Grade 500g per bottle
191	1	btl	Sulfuric acid, H₂SO₄
			☐Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle
192	1	kit	Taq DNA Polymerase, 5000U
			☐Certified molecular biology grade
			☐For PCR analysis
			☐Concentration: 5U/uL
			☐Kit includes 25mL each of 10x PCR buffer and 50mM MgCl ₂
			☐Size: 1mL
193	5	pc	Test Tube Racks, 12MM x 12Holes
			Stainless Steel Holes Test Tube Rack
194	1	box	Test Tubes, 16 x 100mm, 100 pcs/ box
			☐borosilicate glass, heat resistant, rimless
195	1	btl	Thiamine.HCl suitable for plant cell and tissue culture (25gms)
196	5	pc	Three Way Pipettor (Safety Pipettor)
			<i>It is used by attaching it to a pipette. It has a special valve built into the dropper, and it is a convenient rubber device that can quickly and accurately suck up and drop an appropriate amount of solution with the operation of one hand and fingertip.</i>
			<i>Exclusively for handling toxic or hazardous chemicals.</i>
			<i>Material Rubber</i>
			<i>Capacity (mL) 50</i>
			<i>Standard With suction / discharge valve</i>
			<i>Applicable pipette</i>
			<i>outer diameter (Φmm) 5~8</i>
197	1	btl	TRIS-base, pH 8, molbio grade, 500g/bot
198	1	pc	Vernier Caliper
			☐Measurement Range:0-200mm
			☐Material:Stainless Steel
			☐Accuracy:0.01mm
			☐Caliper Type:Digital Calipers
199	1	set	Veterinary Gas Anesthesia Machine
			<i>Suitable for animals (e.g., dogs and cats).</i>
			<i>Rebreathing and non-rebreathing circuit.</i>
			<i>With trolley</i>
			<i>With patient monitor</i>

			With oxygen concentrator
			With endotracheal tube
			With laryngoscope
			Soda lime and Isoflurane
			Power: 220V supply voltage and 60Hz
			Inclusions: Accessories, Automatic Voltage Regulator, free in-house training
200	1	box	Vinyl Gloves
			size: Large
			100 pcs per box
			powder-free
201	2	pc	Vol. pipettes 10.75 ml for milk
			Volumetric pipette
			with one ring mark
			10.75 ml milk
			glass
202	1	pack	Volumetric flask
			borosilicate glass, with ground glass cover, 25 mL, Class A, 6pcs/pack, ISO 9000 compatible
203	3	pc	Volumetric Flask 100ml
			☐100 mL (± 0.01 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
204	5	pc	Volumetric Flask 10ml
			☐10 mL (± 0.02 mL)
			☐Class A
			☐Borosilicate Glass with Glass Standard Taper Stopper
			☐calibrated
205	5	pc	Volumetric Flask 50ml
			☐50mL, (± 1 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
206	5	pc	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality)
207	1	pack	Watch Glass
			☐Material: Glass/Borosilicate Glass
			☐Autoclavable: Yes
			☐Outer diameter: 75 mm (7.5cm),
			☐fits 250 mL beakers,
			☐12pcs/pack,
			☐good quality
208	10	pc	weighing pan, rectangular 260mm, 200 mm
209	1	btl	Wright Stain
			Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml

210	1	btl	Zinc sulfate (ZnSO ₄ , 7H ₂ O) suitable for plant cell and tissue culture	
			●molecular weight: 287.54	
			●500grams	

Section VII. Technical Specifications

Technical Specifications

Item #	Qty	Unit	Description	Statement of Compliance
1	1	btl	1 kb Plus DNA Ladder	[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.]
			■ 1ml;	
2	2	pc	100 ml Type 1, class A borosilicate glass Beaker	
3	1	unit	1000- 10000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
			Volume Range Min (uL): 1000	
			Volume Range Max (uL): 10000	
			Accuracy (%/uL): 0.5	
			Repeatability/Precision (%/uL): 0.2	
			Autoclavable: Yes	
4	2	pc	1000 ml Type 1, class A borosilicate glass Beaker	
5	5	pc	125 ml Erlenmeyer flask	
			70980-125- 125 ml Erlenmeyer flask;	
6	5	pc	125 ml Erlenmeyer flask	
			70980-125- 125 ml Erlenmeyer flask;	
7	1	lot	2 Unit of Digital Electric Stereo Microscope with Camera Lucida	
			Specifications:	
			HARDWARE	
			AR tilting trinocular tube SZX2-ARTTR • Angle of observation tube: 5 to 45 degrees	
			• Maximum power consumption: 10 W	
			• Interpupillary distance adjustment range: 57 to 80 mm	
			• Equipped with eyepiece clamping knob	
			• Light-path switching mechanism: present	
			• Eyepiece magnification: 1.25X; camera magnification: 1X	
			• Functions of buttons on the front panel: AR image brightness adjustment (7 levels) and AR image ON/OFF	
			• Input connectors: HDMI x 1, USB 2.0 (Type-C) x 1, DC jack x 1	
			• Drive voltage: AC 100–240 V (AC adaptor)	
			• Camera lucida adapter: present	
			• Camera lucida included: yes	
			Zoom magnification sensor Main Functions:	
			• Set the zoom magnification (at click positions only)	
			• Move slides created on the software forward and backward	
			• Output connector: USB 2.0 Type-C	
			Recording:	
			• File saving formats: mp4, mov; Video codec: H264	
			• Audio format: MP3; Audio codec: mp3	
8	1	lot	2 Whole Plastinated Cat specimen ,1 Whole	

			plastinated cat specimen,3D Cat Model,3D frog Anatomy,3D H
			<i>Specification:</i>
			<i>> 2 Whole Plastinated Cat specimen -Dissected model exposing the anatomy of the neck, thoracic regions, abdominal organs, along with musculature of the upper forelimbs and hindlimbs</i>
			<i>Approximate length: 14 to 18 inches</i>
			<i>>1 Whole plastinated cat specimen Model showing superficial muscles of the cat</i>
			<i>> 3D cat model- The 3D Cat Anatomy software is an interactive model that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption, or they can be removed to permit viewing of deeper structures.</i>
			<i>> 3D frog anatomy. The 3D Frog Anatomy software is an interactive model of an American bullfrog (Rana catesbeiana) that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption, or they can be removed to permit viewing of deeper structures.</i>
			<i>>3D Human Anatomy Introduction -The 3D Human Anatomy Introduction software consists of an interactive model of the human body, created especially for students, teachers and healthcare professionals.</i>
			<i>>3D Bird Anatomy -The 3D Bird Anatomy software (desktop version) is an interactive anatomical model of a pigeon. This tool allows you to visualize bones, muscles and internal organs, as well as details of the bird's external anatomy.</i>
			<i>>3D fish anatomy The 3D Fish Anatomy software is an interactive model of a perch (Perca flavens) that allows for the animal internal systems to be viewed and manipulated layer by layer or simultaneously with other layers, at various zoom levels. Individual anatomical structures can be highlighted and display a caption or removed to permit viewing of deeper structures.</i>
9	1	pc	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable
			<i>7030301016, 200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable</i>
10	1	lot	35 lab chairs , 5 aluminum shelves
			35 pcs. Stacking Chair
			<i>Width: 20 inches</i>

			Height: 32 1/2 inches
			Arms: Without Arms
			Assembled: Assemble Required
			Back: With Back
			Color: Black
			Features: Stackable
			Frame Color: Silver
			Frame Material: Steel
			Padded Seat: Without Padded Seat
			Seat Material: Plastic
			Shape: Rectangle
			Style: Solid Back
			Type: Chairs
			Usage: Breakroom Indoor
			5 pcs. 5-Layer Steel Cabinet with Glass Sliding Doors
			Product specifications
			Color: Beige, Light Gray, Offwhite
			Material/s Used: Ga24 Metal Sheet, Heavy Duty Ball Bearing Rollers, Powdercoated Painting Finish
			Dimension (WxDxH): 900X4000X1850
11	1	Vial	4-Nitrophenol or p-Nitrophenol
			Analytical standard
			Powder or crystal form
			HPLC suitable
			Vial of 1g
12	1	lot	5 units of Electric Compound Binocular Microscopes
			Item Specification
			●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

			<ul style="list-style-type: none"> ☐ Warranty: 5-year warranty, excluding LED bulb ☐ Includes: Dust cover and blue filter
13	2	pc	500 ml Type 1, class A borosilicate glass Beaker
14	6	btl	Absolute Methanol - 99.5%
			Purity (GC): ≥ 99.5 %
			1 bottle contains 1 liter
15	2	gal	Acetone
			☐ Acetone, Technical Grade
			☐ 1gal
16	1	btl	Agar Agar (atleast 500g/btl)
17	3	btl	Agar for plant cell and tissue culture
			500 grams;
18	1	btl	Agarose, molbio grade, 100g/bot
19	6	gal	Alcohol, Denatured
20	1	btl	alpha-amylase from malt
			a - Amylase
			SKU: GRM638
			CAS No. : 9001-19-8
			EC No. : 232-588-1 EC
			Index No : 647-016-00-X
			Synonym : Diastase; 1,4- α -D-Glucan- glucanohydrolase
			HS Code : 3507 90 62
			Storage : 2 - 8°C
			Shelf life : 3 years
22	2	pc	Amber Reagent Bottle, 100mL
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 100mL
23	2	pc	Amber Reagent Bottle, 1L
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 1L
24	2	pc	Amber Reagent Bottle, 250mL
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 250mL
25	2	pc	Amber Reagent Bottle, 500mL
			With Stopper/Screw Cap
			Material: Glass/Borosilicate Glass
			Capacity: 500mL
26	1	btl	Ammonium Chloride, Analytical Grade, 500g/btl
			☐ AR grade, 500g per bottle
27	1	btl	ammonium molybdate
			ammonium molybdate, analytical reagent - 500 g.
28	2	kg	Ammonium Nitrate
			☐ AR grade; at least 98% purity
			☐ Molecular Wt. 80.043 grams per mol.

			☐1kg/pack
29	2	kg	Ammonium nitrate (NH₄NO₃) suitable for plant cell and tissue culture
30	1	btl	Ammonium Phosphate Dibasic
			☐Analytical Grade
			☐500 G bottle
31	1	btl	Anhydrous Sodium Sulfate 100g
			☐anhydrous powder, Analytical grade pure>99.9% - 100 g per bottle
32	1	pc	Autoclave Tape
			☐turns black at 250°F,
			☐width - ¾ inch
			☐length- minimum of 60 yards
33	1	btl	Automatic tilt measure ,Sulphuric acid
			Automatic tilt measure
			with rubber stopper and storage bottle 500 ml for 10 ml sulphuric acid
34	1	btl	Automatic tilt measure, Amyl alcohol
			Automatic tilt measure Superior
			with rubber stopper and storage bottle 250 ml for 1 ml amyl alcohol
35	1	btl	Barfoed's Reagent Solution 1000mL
			Technical Reagent Grade 1000mL per bottle
36	3	pc	Beaker, Glass, 1000mL
			☐1000mL capacity, borosilicate glass
37	2	pc	Beaker, Glass, 100mL
			☐100mL capacity, borosilicate glass
38	2	pc	Beaker, Glass, 150 mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
39	2	pc	Beaker, Glass, 2000mL
			☐2000mL capacity, borosilicate glass
40	2	pc	Beaker, Glass, 250mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
41	4	pc	Beaker, Glass, 500mL
			☐500mL capacity, borosilicate glass
42	2	btl	Beef Extract
			500 g for microbiological work;
43	2	btl	Benedict's Solution 1000mL
			Technical Reagent Grade 1000mL per bottle;
44	1	btl	Benzoic Acid
			Benzoic Acid Tablet
			Pack size: 500g

45	1	set	Biological Safety Cabinet- Class I
			<i>suitable for work involving low to moderate risk agents (Biosafety Levels 1, 2 and 3) where there is a need for containment, but not for product protection.</i>
			<i>the HEPA filter included protects the environment by filtering air before it is exhausted</i>
			<i>With the negative pressure, personnel protection is made possible by constant movement of air into the work area</i>
			<i>Specifications:</i>
			<i>UV lamp for sterilization</i>
			<i>Soft touch control panel, LCD display</i>
			<i>Energy-saving, high efficiency, low noise.</i>
			<i>With memory function in case of power-failure.</i>
			<i>304 stainless steel work stable, easy for cleaning.</i>
			<i>Stable air flow system; provide firm protection to person and environment.</i>
			<i>External Size: (W*D*H), mm: 900*713*1250mm</i>
			<i>Internal Size:(W*D*H), mm: 900*713*1250mm</i>
			<i>Voltage: 220V (AVR included)</i>
46	1	btl	Bis-acrylamide
			☐ <i>Molecular biology grade, ≥99.5% assay quality</i>
			☐ <i>Suitable for protein analysis and electrophoresis</i>
			☐ <i>Dnase-free and Rnase-free</i>
			☐ <i>Bottle of at least 100g</i>
47	1	box	Blood Lancets g.23 box of 200
48	1	bag	Boiling Stone or Chips
			☐ <i>1000pcs/bag Glass Marbles High Precision Lab Glass Beads Used in distillation to prevent liquid level boiling</i>
49	1	btl	Buffer Solution pH 10, 500 mL
50	1	btl	Buffer Solution pH 4, 500 mL
51	3	btl	Buffer solution, pH 7, 1000 ml.
52	1	btl	Buffered Peptone Water
			☐ <i>Pre-enrichment broth</i>
			☐ <i>used for isolation and culturing of bacteria.</i>
			☐ <i>supplied in 500g/bottle</i>
53	1	pc	Burette with Glass Stopcock
			☐ <i>Burette with Glass Stopcock</i>
			☐ <i>Material: Glass/Borosilicate Glass</i>
			☐ <i>Capacity: 50mL</i>
			☐ <i>For Acid</i>
54	1	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>
55	3	pc	Butyrometer for milk 0-10%
			<i>Milk butyrometer 0 – 10 %: 0.1 (accessory:</i>

			3280),glass
56	1	btl	Calcium carbonate, AR 500g
57	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
58	1	btl	Carbon Disulfide 500mL
			Analytical Reagent Grade 500mL per bottle
59	2	btl	Carmin Powder, AR, 25g/btl
			Carmin powder is a red compound used for staining.
60	2	pack	Centrifuge (Conical) Tubes, 15mL Capacity
			☐With graduations and marking spot.
			☐Screwcap (plugseal)
			☐Sterile. RNase-/DNase-free.
			☐Non-pyrogenic
			☐Polyethylene terephthalate (PET) material
			☐At least 3600 centrifugal force (x g)
			☐Pack of 50 Tubes
61	2	pack	Centrifuge (Conical) Tubes, 50mL Capacity
			☐With graduations and marking spot.
			☐Screwcap (plugseal)
			☐Sterile. RNase-/DNase-free.
			☐Non-pyrogenic
			☐Polyethylene terephthalate (PET) material
			☐At least 3600 centrifugal force (x g)
			☐Pack of 25 Tubes
61	2	pack	Centrifuge (Conical) Tubes, 50mL Capacity
			☐With graduations and marking spot.
			☐Screwcap (plugseal)
			☐Sterile. RNase-/DNase-free.
			☐Non-pyrogenic
			☐Polyethylene terephthalate (PET) material
			☐At least 3600 centrifugal force (x g)
			☐Pack of 25 Tubes
62	2	unit	Centrifuge Rack, Multifunction
			For storage and general-purpose
			Fit for 10mL, 15mL, 50mLl centrifuge tubes
			The centrifuge tube rack can be disassembled and easily assembled.
			The centrifuge tube rack after assembly has two layers

			<i>Holds 30 pcs of 15 mL tubes and 20 pcs of 50mL tubes</i>
63	1	pack	Centrifuge Tube 10 mL
			<i>Material: Polypropylene</i>
			<i>Type of the Bottom Tube: Either Conical or Free-Standing</i>
			<i>Type of Cap: Flat Cap</i>
			<i>Graduation: Graduated from 1.5mL to 10mL in 0.5mL segments.</i>
64	1	pack	Centrifuge tube, 50 ml, sterile
			<i>polypropylene, free standing, flat screw cap, 25 pcs/pack</i>
65	1	pack	Centrifuge tubes, 15 ml, sterile
			<i>polypropylene, flat screw cap, 25 pcs/pack</i>
66	2	gal	Chlorine
			<i>Liquid;</i>
67	2	btl	Chloroform 2.5L
			<i>Analytical Reagent Grade 2.5L per bottle</i>
68	1	unit	Commercial Yogurt Machine
			<i>Specification</i>
			<i>Item: Commercial Yogurt Machine Intelligent With Refrigeration Multifunction Winemaking Fermentation Produce Equipment Fully Automatic</i>
			<i>Voltage: 220V</i>
			<i>Fermentation Power: 1000W</i>
			<i>Refrigeration Power: 280W</i>
			<i>Size: 650*700*1850mm</i>
			<i>Fermentation Temperature: 0~60 °C</i>
			<i>Refrigeration Temperature: 2~8 °C</i>
			<i>Capacity: 388L</i>
			<i>Refrigeration Method: Air Cooling</i>
			<i>Control Method: Computer Touch Screen</i>
69	40	pc	Condom or Rubber Sheath
			<i>material: Latex rubber</i>
70	1	unit	Custom oligo primers
			<i>■HPLC-CE purified</i>
71	1	btl	Cyclohexene
			<i>Analytical Reagent Grade 2.5L per bottle</i>
72	1	btl	D-(+)-Maltose monohydrate, AR
			<i>Analytical Standard</i>
			<i>HPLC suitable</i>
			<i>Size: 500 mg per bottle</i>
73	1	unit	Deep Freezer w/ surge protector (AVR)
			<i>Specifications:</i>
			<i>< Rated Voltage: 230V</i>
			<i>< Rated Frequency: 60Hz</i>
			<i>< Rated Power Input: 216W</i>
			<i>< Rated Current: 1.OA</i>
			<i>< Weight: 51kgs</i>

			< Refrigerant/ Amount: R134a/125g
			< Climate: T
			< Classification of Anti- electric Shock: OI
			< Volume-365 L
			< Energy Consumption-1.78Kw-h/24h
			< Stainless Steel
			<7 cubic meters
			< -50 degrees Celsius (Negative 50 degrees Celsius)
			< Dual Compartment
			< Any Color
			< With Safety Lock
			< Interior Light
74	3	box	Delicate Task Wipes
			■4.4 x 8.4 inches (11 x 21 cm)
			■at least 280 sheets/box
			■lint-free
75	1	pc	Dessicator, Glass
			■ Dessicator, Glass, 300mm (12")
76	1	unit	Dial Instant-Read Kitchen Thermometer (Bimetal)
			Reads in 15-20 seconds
			Place 2 - 2 1/2 deep in the thickest part of food
			Can be used in roasts, casseroles, and soups
			Temperature is averaged along probe, from tip to 2-3" up the stem
			Cannot measure thin foods unless inserted sideways
			Not designed to remain in food while it is cooking
			Use to check the internal temperature of a food at the end of cooking time
			Can be calibrated
77	1	unit	Digital Water Bath
			Controller Type: Digital
			Temperature Range: 100°C
			Material: Stainless Steel
			Temperature Accuracy: ±1°C
			Shipping Weight (Metric): 2.13 kg
			Capacity (Metric): 3.0 L
			Includes: Cover is included
			Power Consumption: 300W, 110V, 50 Hz
			Shipping Weight (English): 4.7 lb.
78	1	unit	Digital Weighing Scale- 0.01-5kg
			■Capacity: 0.01g to 5kg
			■Type: Laboratory Balance
			■Power Supply: 100-240V/50-60H
			■Size: 320*205*100mm
79	1	kit	DNA Extraction kit for plant samples
			50 reactions in the kit
80	1	kit	DNA Extraction kit for soil samples
			50 reactions in the kit

81	1	kit	DNA Taq polymerase, 500 U/tube/kit, with MgCl₂ and PCR buffer in the kit
82	5	pc	Drager Aspirator Bulb
83	2	unit	Drying Oven for Laboratory
			<i>Drying Oven</i>
			<i>Item Specification</i>
			<i>Stainless steel interior:</i>
			< Dimensions -w(A) x h(B) x d(C): 400 x 560 x 330 mm (d less 39 mm for fan)
			< Interior- easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and
			protected large-area heating on four sides
			< Volume 74 l
			< Max. number of internals 6
			< Max. loading of chamber 120 kg
			< Max. loading per internal 20 kg
			<i>Textured stainless steel casing:</i>
			< Dimensions w(D) x h(E) x d(F): 585 x 944 x 514 mm (d +56mm door handle)
			< Housing rear zinc-plated steel
			<i>Electrical data</i>
			< Voltage - 230 V, 50/60 Hz
			< Electrical load - approx. 2500 W
			< Voltage - 115 V, 50/60 Hz
			< Electrical load - approx. 1800 W
84	1	pc	Erlenmeyer Flask, Glass, 1L, good quality
85	5	pc	Erlenmeyer Flask, Glass, 250mL
			☐Material: Borosilicate Glass
			☐Good Quality
86	2	pc	Erlenmeyer Flask, Glass, 500ml
			☐Material: Borosilicate Glass
			☐Good Quality
87	5	pc	Erlenmeyer Flask, Glass, 500mL
			☐500mL capacity, borosilicate glass
88	1	btl	Ethanol (Ethyl alcohol)
			☐95%,
			☐4 Liters,
			☐Analytical Grade
89	2	btl	Ethanol Absolute
			2.5 Liters/ bottle;
90	3	canister	Ethyl Alcohol (95%)
			☐95%
			☐Container size: Plastic waterjug (20L)
91	1	pack	Filter paper
			<i>Specifications:</i>
			-Glass microfiber filters
			- Diameter: 47 mm

			-Pore size: 1.2 μm or 1.5 μm
			-100 pcs per pack
92	5	pc	Finepoint High Precision Forceps
			☐Tip Style: Fine
			☐Material: Stainless Steel
			☐Length 4.5"
93	1	btl	Formaldehyde
			Analytical Reagent Grade 2.5L per bottle;
94	1	btl	Fructose
			Analytical Reagent Grade, 500g per bottle
95	1	btl	Gibberellic Acid 100g
			Gibberellic Acid (GA3), 90%
			Appearance (color) - white to off-white
			Appearance (form) - Crystalline powder
			Solubility (turbidity) 5% solution in Methanol clear
96	1	btl	Giemsa stain set
			Diagnostic reagents, packaging 1bx or set Giemsa 500ml, Buffer for Giemsa 500 ml
97	1	btl	Glacial Acetic Acid, Analytical Standard
			Certified analytical standard
			HPLC and GC suitable
			Size: 2.5L per bottle
98	15	box	Glass Jar 8oz
			☐Clear
			☐8oz
			☐M-7177
			☐with cap
			☐24pcs/box
99	5	pc	Glass Stirring Rod 12 inch, 10mm dia.
			12 inch long, 10 mm diameter
			Borosilicate Glass 10
100	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
101	3	box	Gloves, Nitrile, Medium
			☐Glove Type: Chemical Resistant Disposable Gloves
			☐Glove Material: Nitrile
			☐Powder-Free
			☐1 box of 100 or 50 pairs
			☐Food Safe
			☐Size: Medium
102	1	btl	Glycerin 1L/Bottle, AR
103	2	pc	Graduated Cylinder, Glass, 1000mL
			☐Material: Borosilicate Glass

			☐ Good Quality
104	7	pc	Graduated Cylinder, Glass, 100mL
			☐ Type 1, Class A Borosilicate Glass
105	7	pc	Graduated Cylinder, Glass, 250mL
			☐ Material: Borosilicate Glass
			☐ Good Quality
106	2	pc	Graduated Cylinder, Plastic, 1000mL
			Plastic, 1000ml (1L) capacity for Particle Size Analysis
107	2	set	Hemaquick Stain
108	5	pc	High Precision Stainless Steel Digital Vernier Caliper
			6 inches; 0.01-0.025 mm accuracy
109	1	unit	Hygrometer Thermometer Indoor Humidity Monitor, Temperature Humidity Meter Room Thermometer Gauge In
			* Power supply: Station:2 x AAA 1.5V batteries(not included); Sensor: 2 x AAA 1.5V batterie(Battery not included).
			* Backlight LCD Display
			* with Remote Sensor
110	1	pack	Inoculating Loop Stainless Steel
			☐ 10PCS 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology
111	1	btl	Iodine-Potassium Iodide Solution, 500ml/bottle Laboratory Grade
112	1	unit	Laboratory Refrigerator
			Temperature Control Microprocessor control, Large LED display inner temperature clearly, and with easy view The inner temperature can be adjustable at the range of 2°C-8°C with an increment of 0.1; Multiple sensors to display or control the temperature; The Lowest and Highest temperature recorded value record.
			Safety Control Malfunction alarms: high-temperature alarm, low-temperature alarm, Power failure alarm, Door jammed, low voltage of backup battery. Over temperature alarm system, set the alarm temperature as requirements; Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm; Protection function: power-on delay, time between stops; Temperature recorder monitor system (Optional) . Refrigeration System Highly efficient famous brand compressor and fan; Forced-air circulation for large airflow with special air ducts to guarantee inner temperature consistency. Large area of the evaporator design, cooling strong and high-temperature uniformity, While effectively suppressing frost, reducing defrosting process.

			<p>CFC-Free/HCFC refrigerant. Ergonomic Design Safety door lock, preventing unauthorized access; Auto defrost function guarantees a good performance in high ambient temperature and humidity area; Wide voltage design from 192V to 242V; Inner LED lighting and caster design; No condensation glass door; Adjustable shelf design ; Foaming door is optional; Stopper on rear against back wall. Cabinet Type Vertical Climate Class ST Cooling Type Forced air cooling Defrost Mode Auto Refrigerant HC, R600a Cooling performance(°C) 4 Temperature Range(°C) 2 ~8 Controller Microprocessor Display LED Alarm Audible, Remote Interior Galvanized steel powder coating (white) Exterior Galvanized steel powder coating (white) Power Supply(V/Hz) 220/50 Power(W) 240 Capacity(L) 395 Net/Gross Weight(approx) 95/115 (kg) Interior Dimensions(W*D*H) 500×510×1550 (mm) Exterior Dimensions(W*D*H) 600×650×1785 (mm) Packing Dimensions(W*D*H) 660×710×1885 (mm) Container load (20'/40'/40'H) 27/54/54 High/Low Temperature Y Remote Alarm Y Power Failure Y Sensor Failure Y Low Battery Y Door Ajar Y Lockage Y Inner LED light Y Foot N Caster Y Test Hole Y Shelves/Inner Doors 6/- Foaming Door optional USB Interface Y Temperature Recorder optional</p>
113	1	unit	<p>Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity</p> <p>Material of plate : ceramic coating</p> <p>Speed(RPM) : 0-1600RPM</p> <p>Heating Power : 600W</p> <p>Plate Size : 19 * 19 cm</p> <p>Heating Temperature : 350 °C</p>
114	20	pc	<p>Laboratory Stool/Chair, Wheeled</p> <p>Anti-static stool</p> <p>Adjustable height: at least 40-60 cm</p> <p>Weight capacity: at least 300lbs</p> <p>Ergonomic with hip to mid-waist level back support</p> <p>With round footrest/ foot ring</p> <p>Anti-slip seat material: Rugged polyurethane</p> <p>No. of wheels: 5</p> <p>Standard style w/polished aluminum base: 20"-30"</p> <p>Seat shape: Round</p> <p>Color: Black</p>
115	4	unit	<p>Laboratory working table</p> <p>Frame: steel structure; Cabinet: use high quality galvanized steel sheet, surface coated with epoxy powder; Table top: made of 12.7mm thickness</p>

			corrosion-resistant black phenolic resin board, with 25.4mm thickness edge sealing; Hinges: open type high quality hinges, self-closing; Handle: aluminum dark type handle, with 3 pcs sockets and covers, 220V
116	2	btl	Labware Detergent or Laboratory Dishwashing Liquid
			☐Suitable for manual, ultrasonic, and machine washing
			☐Completely biodegradable
			☐Free of phosphate, chlorine, enzyme, and EDTA
			☐Contains anionic and cationic surfactants
			☐5 liters per bottle
117	1	btl	Lactophenol Cotton Blue 500ml/bottle
			Stain solution for fungi.
			500ml/bottle
118	2	btl	Lactose
			AR. 500 grams;
119	1	packs	Lens Tissues, 25 Sheets per Booklet, 5 Booklets
120	1	btl	Lithium Chloride
			☐Anhydrous
			☐Lab grade/Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
121	2	box	Litmus Paper (Blue)
			Blue Litmus Test Paper
			Blue Litmus test paper is a foolproof pH test to determine if something is acidic. The Blue Litmus test paper does not come with a color chart as it cannot provide you with a defined pH value. The test strip will turn red if dipped into an acidic solution (pH <7). It will remain unchanged in an alkaline solution. Although there is no color chart, the strip will turn various shades of red, getting darker the more acidic the solution. We have tested the blue litmus with multiple pH buffers. The blue paper is blue at pH 8. At pH 7, the sample is maybe just a little red. The real change to red seems to start with pH 6.5 and lower.
			Strip Quantity: 100 strips
			Other: Additional sheet sizes available upon request
			Vial Dimensions: .75" (D) x 2.75" (H) [19mm (D) x 70mm (H)]
			Strip Dimensions: 1.875" (L) x .25" (W) [48mm (L) x 6mm (W)]
			Box Dimensions: 10" x 10" x 2.75" [29.8 cm x 19 cm x 7 cm] (144-pack box), 21" x 14.75" x 3" [53.3 cm x 37.5 cm x 7.6 cm] (500-pack box), 3.25" x 2.375" x 3" [8.3 cm x 6 cm x 7.6cm] (12-pack box), 5" x 3.5" x 3"

			[12.7 cm x 8.9 cm x 7.6 cm] (25-pack box)
			Weight: 0.02 lbs [9 g] (single vial)
			Other: Stored in a pocket-sized, lightweight vial.
			Shelf-Life: 3 Years Minimum
122	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
123	2	btl	Malachite green oxalate
			☐reagent and microscopy grade
			☐25 grams/bottle
124	7	btl	Malt Yeast Extract Agar
			☐Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation
			☐pH: 4.7±0.2 at 25°C
			☐solubility: without rests
			☐Appearance: fine powder
			☐100 grams
125	3	pack	Mannitol (AR) 500g
			☐Mannitol (AR)
			☐Formula: C6H14O6
			☐Molecular Wt. 182.172g/mol.
126	1	lot	Manual Sphygmomanometer, Automatic Blood Pressure Monitor, Pulse Oximeter, Stop Watch, Alcohol Thermo
			Manual Sphygmomanometer, Automatic Blood Pressure Monitor, Pulse Oximeter, Stop Watch, Alcohol Thermo,, Dissection pans with wax, Dissection pans with wax, Bone saw, Teasing needles, Dissect, Serrated forceps, Thumb forceps, Fine-tip forceps, Scalpel handle, boxes Surgical blades , Mayo Dissecting scissors,
			Push carts, Sedgewick-Rafter Counting Cell
			Item Specification
			2 pcs. Manual sphygmomanometer
			with calibration key
			Measure scope 0-300mmHg
			Accuracy: +/-33mmHg
			Sub-division: 2mmHg
			2 pcs. Digital sphygmomanometer/Automatic Blood Pressure Monitor
			clinically validated
			body movement detection
			blood pressure level indicator

		<i>irregular heartbeat detection</i>
		<i>measurement memory storage</i>
		<i>average for last 3 readings within 10 minutes</i>
		<i>intellisense technology</i>
		<i>2 pcs. Pulse oximeter</i>
		<i>Pulse Rate, Blood Oxygen Saturation (SpO2), Heart Rate</i>
		<i>Measurement range: 70~99%</i>
		<i>Resolution: 1% Power Source:</i>
		<i>Rechargeable Accuracy: 3% (70%~99%)</i>
		<i>Measurement range: 30~240 bpm</i>
		<i>Resolution: 1% Accuracy: 2bpm or 2% (select larger)</i>
		<i>Low Perfusion: 0.4%</i>
		<i>Working Current: 30mA</i>
		<i>Dimension & Weight: 58*36*33mm, 32g</i>
		<i>2 pcs Stop Watch</i>
		<i>Large screen. display</i>
		<i>Counts up to 24 hours with a resolution of 1/100 second</i>
		<i>with lap function, alarm, clock, and calendar</i>
		<i>Includes battery</i>
		<i>10 pcs. Alcohol Thermometer 200 °C</i>
		<i>unit scale: degree Celsius</i>
		<i>range: max 200 degree Celsius</i>
		<i>length: approx 30cm</i>
		<i>material: traditional glass</i>
		<i>alcohol thermometer mounting: tube type</i>
		<i>Item Specification</i>
		<i>>10 pcs. Dissection pans with wax Dimensions: 16x9 inches- Aluminum/stainless steel material</i>
		<i>>20 pcs. Dissection pans with wax 10x7.5 inches- Aluminum/stainless steel material</i>
		<i>>5 pcs. Bone saw</i>
		<i>>30 pcs. Teasing needles Stainless steel handle with a straight metal probe</i>
		<i>>30 pcs. Dissecting probe Stainless steel handle with a bent needle</i>
		<i>>30 pcs. Serrated forceps Stainless steel material, medium points, serrated tips -6 inches long</i>
		<i>>30 pcs. Thumb forceps Stainless steel material, smooth tip</i>
		<i>>30 pcs. Fine-tip forceps Stainless steel material, straight tip</i>
		<i>>40 pcs. Scalpel handle (size 4) without blade Stainless steel material with satin finish</i>
		<i>>2 pcs. boxes Surgical blades Size 21</i>
		<i>>1 box Surgical blade Size 10</i>
		<i>>1 box Surgical blade Size 11</i>
		<i>>30 pcs. Mayo Dissecting scissors Stainless steel</i>

			material, straight bladed scissors
			>30 pcs. Mayo dissecting scissors Stainless steel material, Curved bladed scissors
			>5 pcs. Push carts Stainless steel With wheels 30inches height 3 layers
			5pcs. Sedgewick-Rafter Counting Cell
			Item Specification
			Material: Brass and Glass
			Lenght (") 3
			Sample volume: 1.0 ml, cell size 50x201x1mm
			Width(cm): 2.54
			Lenght (cm): 7.62
			Description: Gridded Sedgewick-Rafter Counting Cell, brass, 1.0ml
127	1	btl	Marine Agar, 500g/bottle
128	1	btl	Marine Broth, 500g/bottle,AR
129	1	btl	Methyl orange, Sodium salt
			☐CAS 547-58-0
			☐25g
			☐Orange Solid, Crystalline
			☐Analytical Grade
130	1	unit	Microcentrifuge Rack with Cover, Reversible (2 mL/ 1.5 mL)
			☐Polypropylene (PP)
			☐Autoclavable
			☐Excellent rack for benchtop use or freezer storage.
			☐Excellent chemical & temperature resistance
			☐80/60 well rack capacities:
			☐80-Place for 1.5 & 2.0mL tubes
			☐60-Place for 0.5 & 0.2mL tubes
			☐With lid or cover
131	1	pack	Microcentrifuge Tube, 2.0 ml, 1000pcs/pack, clear
			Attach snap cap;
132	2	pack	Microcentrifuge Tubes (1.5mL Capacity)
			☐1.5mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable
133	2	pack	Microcentrifuge Tubes (2.0mL Capacity)
			☐2.0mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable
134	1	unit	MicroPette Plus Autoclavable 100-1000ul Variable Single-Channel Pipette
			Variable or Fixed Volume: Variable Volume
			Volume Range Min (uL): 100

			Volume Range Max (uL): 1000
			Accuracy (%uL): 0.60/0.70/2.00
135	2	pack	Micropipette Tip, 1000 uL
			●capacity, 1000 uL
			●Standard tip, graduated
			●Autoclavable
			●Pack of 1000 tips
136	1	pack	Micropipette Tip, 200 uL
			●capacity, 200 uL
			●Short tip, graduated,
			●Autoclavable
			●Pack of 1000 tips
137	16	box	Microscope Slides and cover slips
			●Pre-Cleaned Blank slides with 50pcs./box 22 x 22 mm square Cover Slip
138	2	unit	Microscope with Camera Lucida with Storage Cabinet
			Stereo microscope with drawing tube (camera lucida) and dry storage cabinet
			Specification:
			Zoom ratio: 10:1
			Zoom range: 0.75x-7.5x
			Zoom control: Dual, graduated, bilateral amount
			Focus: Course and fine focus
			Magnification: 7x-45x (10x eyepieces)
			Viewing head: Tilting ergonomic binocular viewing head
			Revolving nosepiece: manual, standard type
			Extendable Eyepoint adjuster: yes
			Camera port: yes, camera mount adapter
			Attachment for drawing tube: yes
			Drawing tube or camera lucida: yes, detachable
			Transmitted light stand: yes - brightfield/darkfield light base
			Primary light: 6V 30W
			Accessory light: 6V 30W
			Light type: Halogen
			Stage plate: clear and black
			Objective dust cover: yes
			Power cord: yes
139	5	pc	Mixing bowl Stainless Steel
			Features: 1. Made of premium stainless steel, shiny, scratch-resistant, rust-resistant. 2. It won't stain or absorb odors, easy to wash the bowls in the dishwasher or by hand. 3. A wide rim ensures contents to flow evenly when pouring. Its rolled rim allows the user to have a sturdy grip every time they handle the bowls. 4. Ideal for serving fruit salads, marinating for the grill, and adding last ingredients for

			<p>dessert. With a lid design for healthier food storage.</p> <p>5. Multi-sizes are available, bowls of different size can nest inside each other to save space in kitchen cabinets, cupboards, and countertops. Specifications: Material: Stainless Steel Color: as pictures show</p> <p>#MixingBowl #StainlessSteelMixingBowl #BakingBowls #StainlessSteelSaladBowl #KitchenCookingTools</p>
			size: 5L, 12 cm Hx26cmHx26cmWx26cmD
140	2	btl	<p>Molybdc acid (sodium salt) (Na₂MoO₄, 2H₂O) suitable for plant cell and tissue culture</p> <p>500grams, AR;</p>
141	2	pc	Mortar and Pestle (small), Porcelaine
142	2	btl	Myo-inositol suitable for plant cell and tissue culture (100gms)
143	1	unit	Nerve Muscle Assemby/ Kymograph Assembly
			Specification:
			Uinversal Kymograph (speeds 0.12, 0.25, 1.25, 2.5, 12.5, 25, 320, 640 mm/sec) with inbuilt Stimulator
			Muscle and heart Bath with pair of electrodes, lever assembly, pin and ink marker
			Hook and weight set, set of 11g
			Hook and weight set, set of 110g
			Time marker
			Marriote bottle and stand
			Kymograph paper
			Dissection box
			Dissection tray
			Pithing needle
			Muscle clip
			Connecting wire
144	1	btl	<p>Ninhydrin (1,2,3 -Indanetrione monohydrate), 25g</p> <p>☐CAS 485-47-2</p> <p>☐White solid</p> <p>☐50g</p> <p>☐Analytical Grade</p>
145	2	box	<p>Nitrile Gloves, Medium</p> <p>Glove Type: Chemical Resistant Disposable Gloves</p> <p>Glove Material: Nitrile</p> <p>Powder-Free</p> <p>1 box of 100 or 50 pairs</p> <p>Food Safe</p> <p>Size: medium</p>
146	2	btl	<p>Nutrient Agar, 500g Bottle</p> <p>to be used for the culture of test organisms</p> <p>nutrient medium used for the cultivation of microbes supporting growth of a wide range of non-fastidious organisms</p> <p>500g bottle</p>

			recommended for the cultivation of less fastidious microorganisms from clinical and nonclinical samples. It can be enriched with blood or other biological fluids.
			Ingredients:
			Peptone - 5 gms/liter
			HM Peptone B # - 1.50 gms/liter
			Yeast Extract - 1.50 gms/liter
			Sodium Chloride - 5.00 gms/liter
			Agar - 15.00 gms/liter
			Final pH (at 25 °C) 7.4±0.2
			**Formula adjusted, standardized to suit performance parameters
			*Equivalent to Beef extract
147	1	btl	Paraformaldehyde
			☐ Reagent or analytical grade
			☐ For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies
			☐ Crystalline form
			☐ Bottle of 25g
148	45	pc	Pasteur pipette
			Specifications
			230mm Overall Length, 108mm Tip Length, 120 mm Body Length,
			Type 1 Clear Glass
			Non-sterile
			Max dispensing volume : 2mL
			No graduations
149	1	btl	Peptone
			☐ 500g for bacteriological work
150	2	gal	Petroleum Ether, AR
151	1	unit	pH / Temperature Laboratory Bench Meter
			☐ Advanced pH/Temp microprocessor-based bench meter. It is ideal for students and technicians who need fast and reliable measurements.
			☐ This meter is provided with a series of new diagnostic features which add an entirely new dimension to the measurement of pH, by allowing the user to dramatically improve the reliability of the measurement:
			◀ Automatic Temperature Compensation (ATC) for good accuracy under fluctuating temperatures
			◀ Easy to read large custom LCD
			◀ Easy and Quick Push-button Calibration
			◀ 7 memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45) for calibration
			◀ Messages on the LCD to make the calibration easy and accurate
			◀ User-selectable "calibration time out" to remind

			when a new calibration is necessary
			◀Stability Indicator prompts whenever reading stabilizes.
			◼Moreover, it offers an extended temperature range from -20°C (-4°F) to 120°C (248°F),
			using the MA831R interchangeable temperature probe.
			◼Specific Details:
			◀Range: pH -2.00 to +16.00 pH
			◀Temp.: -20.0 to +120oC / -4.0 to +248oF
			◀Resolution: pH 0.01pH
			◀Temp.: 0.1oC (0.1oF)
			◀Accuracy: pH +/- 0.01 pH (@20oC / 68oF) Temp.: +/- 0.4oC / +/- 0.8oF
			◀Typical EMC pH: +/- 0.02 pH
			◀Deviation Temp.: +/- 0.4oC / +/- 0.8oF
			◀pH Automatic Calibration: 1 or 2 point calibration, with 7 memorised buffers
			◀Offset Calibration: +/- 1 pH
			◀Slope Calibration: from 80 to 108%
			◀Temperature Compensation: automatic, from -20.0 to +120oC / -4.0 TO +248oF or manual, without temperature probe
			◀pH electrode: MA 917B/1 (included) double junction refillable glass pH electrode
			◀Temperature probe: MA 831R (included) Environment: 0 to 50oC / 32 to 120.0oF; max. RH 95% Input impedance: 10 ¹² ohm
			◀Power supply: 12 VDC power adaptor (supplied)
			◀Dimensions: 230W x 160D x 95H mm. Weight: 0.9 kg.
152	1	pc	pH Meter pen type
			◼0.1 pH resolution
			◼water-resistant/proof
153	1	btl	Pharmaceutical Agar, AR, 500g/bottle
154	1	btl	Phenolphthalein
			25 grams per bottle
			Description: White crystalline powder
155	2	kit	phi25 DNA polymerase, RCA kit
156	2	pack	pH-indicator paper pH 1 - 14 Universal indicator
			Booklet size: 4.5 CM x 6.5 CM, with colour scale, pH 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14
			pH indicator papers Booklet size: 4.5 CM x 6.5 CM are perfectly suited for longterm storage, since they are protected against external influences, such as moisture, light, and ambient gases. These pH indicator papers are manufactured by impregnating high-quality filter paper with indicator or mixed-indicator solutions. The paper is always ready to use;

			<i>it is easily pulled out of the plastic reel and can be torn off in the necessary length. The pH value is measured semi-quantitatively by visual comparison of the color formed on the paper with the fields of the color scale.</i>
			PROPERTIES
			Quality Level 100
			feature <i>non-bleeding: no</i>
			graduations and accuracy measuring range accuracy: 1 pH unit
			roll L 4.8 m , with color scale
			pH range 1-14
			detection method colorimetric
			storage temp. 15-25°C
157	1	packs	Pipette Tips (20 ul)
			☑20 ul capacity
			☑autoclavable
			☑100 pcs per pack
158	1	set	Portable Moisture Tester for Grain with Digital Meter Readout, Grain Tester with Carry Case
			<i>Specification:</i>
			<i>Backlit display for nighttime use</i>
			<i>Built-in calibration button for displaying the average of saved test results</i>
			<i>Multi-language display</i>
			<i>Higher-frequency, capacitive circuit improves accuracy</i>
			<i>Moisture range: 5% to 40% depending on grain tested</i>
			<i>Temperature range: 32° to 113°F (0° to 45°C)</i>
			<i>Repeatability & Accuracy: ± 0.5% in normal moisture range for stored grain</i>
			<i>Single-point or Precision multi-point calibration to match local elevator</i>
			<i>Direct readout for 40 different grain scales</i>
			<i>Case color: Black</i>
			<i>Material: Plastic</i>
			<i>Power source: Battery-powered</i>
			<i>Voltage: 9 Volts</i>
			<i>Certification: certified frustration-free</i>
			<i>Battery included: yes</i>
			<i>Includes Protective carrying case with shoulder strap with warranty</i>
159	1	unit	Portable Suction Machine
			<i>Portable Phlegm Suction Unit can be used for suctioning sputum and other thick secretions in hospitals, and may also be used for fist aid in the household. The machine adopts oil-free lubricating</i>

			<i>pump, avoiding the pollution of oil mist. The pump requires no daily maintenance and servicing. The overflow protection device in the machine prevents liquids from flowing into the pump. The machine is characterized with small dimensions, light weight and high mobility.</i>
			<i>Suction Machine</i>
			<i>Power voltage: 220v/60Hz</i>
			<i>Lightweight and Portable</i>
			<i>For use in bronchial and oral hygiene to provide effective airway clearance and control infection</i>
			<i>Oil-free Pump</i>
			<i>Heavy Duty</i>
			<i>Power voltage: AC 220V</i>
			<i>Negative pressure: $\geq 0.075\text{Mpa}$</i>
			<i>Suction rate: $\geq 19\text{L/min}$</i>
			<i>Negative pressure regulating range: $-0.013 \sim -0.07\text{MPa}(490\text{mmHg})$</i>
			<i>Suction bottle: 1000ml</i>
			<i>Noise: $\leq 65\text{dB}$</i>
			<i>Input Power: 150VA</i>
			<i>Pump Structure: Self-lubrication without oil</i>
			<i>Working type: Intermission</i>
160	1	btl	Potassium Acetate 500G/btl
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
161	1	btl	Potassium Carbonate, 500G/btl
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
162	1	btl	Potassium Chloride, AR, 1000g
163	2	btl	Potassium dichromate, AR Grade
			☐500 grams/poly bottle
164	1	btl	Potassium Hydroxide
			☐Flakes
			☐Analytical Grade
			☐1kg
165	1	btl	Potassium Iodate 500g
			Analytical grade
166	1	btl	Potassium iodide, KI
			☐Analytical reagent grade, powder, 500g/bottle
167	4	kg	Potassium Nitrate
			☐AR grade
			☐Formula: KNO_3
			☐Molar wt: 101.1032 g/mo
			☐1kg/pack

168	1	btl	Potassium permanganate, ACS reagent, ≥99.0% Crystals
			<i>100grams/bottle</i>
169	2	btl	Potassium Phosphate (KH₂PO₄) suitable for plant cell and tissue culture
			<i>500 grams</i>
170	1	btl	Potato Dextrose Agar (500g)
			<i>Powder form</i>
171	1	btl	Potato Dextrose Agar (PDA), 500 grams
172	1	box	Razor Blade, Box of 25pcs
173	2	Vial	Red Litmus Test Paper
			<i>Red Litmus test paper is a foolproof pH test to determine if something is a base. The Red Litmus test paper does not come with a color chart as it cannot provide you with a defined pH value. The test strip will turn blue if dipped into an alkaline solution (pH >7).</i>
			<i>Strip Quantity: 100 strips</i>
			<i>Vial Dimensions: .75" (D) x 2.75" (H) [19mm (D) x 70mm (H)]</i>
			<i>Strip Dimensions: 1.875" (L) x .25" (W) [48mm (L) x 6mm (W)]</i>
			<i>Box Dimensions: 10" x 10" x 2.75" [29.8 cm x 19 cm x 7 cm] (144-pack box), 21" x 14.75" x 3" [53.3 cm x 37.5 cm x 7.6 cm] (500-pack box), 3.25" x 2.375" x 3" [8.3 cm x 6 cm x 7.6cm] (12-pack box), 5" x 3.5" x 3" [12.7 cm x 8.9 cm x 7.6 cm] (25-pack box)</i>
			<i>Weight: 0.02 lbs [9 g] (single vial)</i>
			<i>Other: Stored in a pocket-sized, lightweight vial.</i>
			<i>Shelf-Life: 3 Years Minimum</i>
174	1	kit	Reverse transcriptase, 200000 units/ml concentration, 10000 units/tube/kit
175	1	kit	RNA Extraction kit for soil samples
			<i>50 reactions in the kit</i>
176	1	kit	RNA Extraction kit, 50 reactions, for plant samples
			<i>50 contents in the kit;</i>
177	3	box	Scalpel Blade
			■ <i>Stainless steel</i>
			■ <i>100 blades/box</i>
178	1	btl	Seliwanoff's Reagent
			<i>Technical grade (100mL per bottle)</i>
179	12	pc	Serological Glass Pipette, 50mL
			<i>Autoclavable</i>
			<i>Borosilicate glass</i>
			<i>Graduation: 1mL Intervals</i>
			<i>Capacity: 50mL</i>
180	5	tubes	Shelby Tube, 2.5in Diameter X 36in Long

			<i>Note: Size is OD. All tubes are 16 gauge steel.</i>
			<i>3" and 5" tubes are galvanized</i>
181	2	bag	Silver Aluminum Foil Zip Lock Pouches
			<i>Color: silver</i>
			<i>Size: approx. 7*5cm</i>
			<i>Quantity: 100pcs</i>
			<i>Boil-able, freezable and reusable Not transparent, high reflection</i>
182	1	btl	Sodium Bicarbonate
			☐Sodium Bicarbonate Powder
			◀USP Pharmaceutical Grade
			◀CAS: 13-34799
			◀HIGHEST QUALITY
			◀Aluminum Free
			◀1-kg bottle
183	1	btl	Sodium Chloride
			<i>Analytical Reagent Grade 500g per bottle</i>
184	1	btl	Sodium Iodide
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
185	1	btl	Sodium phosphate monobasic, NaH₂PO₄
			<i>Analytical grade</i>
			<i>For use as enzyme buffer and other chemical assays</i>
			<i>Bottle of at least 500g</i>
186	1	unit	Soft Ice Cream Machine
			<i>Voltage: 110V/60Hz</i>
			<i>Total Power: 1000W</i>
			<i>Ice Cream Output: 2.6-5.3 Gal / 10-20 L per Hour</i>
			<i>Hopper Capacity: 1.2 Gal / 4.5 L</i>
			<i>Cylinder Capacity: 0.4 Gal / 1.6 L</i>
			<i>Compressor: 430W Embraco</i>
			<i>Refrigerant: R290a</i>
			<i>Working Temperature: 41-95 °F / 5-35 °C</i>
			<i>Product Dimensions: 21.7"x8.3"x26.8" / 550x210x680 mm</i>
			<i>Product Weight: 99.2 lbs / 45 kg</i>
187	3	pack	Sorbitol (AR) 500g
			☐Sorbitol (AR)
			☐Chemical Formula: C ₆ H ₁₄ O
			☐Molecular Wt. 182.172 g/mol.
188	10	pc	Stirring Rod
			☐big size, => 10 inches long, fire polished ends with no policeman
189	1	btl	Strontium Chloride
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade

			<ul style="list-style-type: none"> ☐ Expiration date(3 years from the delivery date) ☐ Packed in Teflon bottles
190	2	btl	Sucrose Analytical Reagent Grade 500g per bottle
191	1	btls	Sulfuric acid, H2SO4 <ul style="list-style-type: none"> ☐ Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle
192	1	kit	Taq DNA Polymerase, 5000U <ul style="list-style-type: none"> ☐ Certified molecular biology grade ☐ For PCR analysis ☐ Concentration: 5U/uL ☐ Kit includes 25mL each of 10x PCR buffer and 50mM MgCl2 ☐ Size: 1mL
193	5	pc	Test Tube Racks, 12MM x 12Holes Stainless Steel Holes Test Tube Rack
194	1	box	Test Tubes, 16 x 100mm, 100 pcs/ box ☐ borosilicate glass, heat resistant, rimless
195	1	btl	Thiamine.HCl suitable for plant cell and tissue culture (25gms)
196	5	pc	Three Way Pipettor (Safety Pipettor) It is used by attaching it to a pipette. It has a special valve built into the dropper, and it is a convenient rubber device that can quickly and accurately suck up and drop an appropriate amount of solution with the operation of one hand and fingertip. Exclusively for handling toxic or hazardous chemicals. Material Rubber Capacity (mL) 50 Standard With suction / discharge valve Applicable pipette outer diameter (Φmm) 5~8
197	1	btl	TRIS-base, pH 8, molbio grade, 500g/bot
198	1	pc	Vernier Caliper <ul style="list-style-type: none"> ☐ Measurement Range:0-200mm ☐ Material:Stainless Steel ☐ Accuracy:0.01mm ☐ Caliper Type:Digital Calipers
199	1	set	Veterinary Gas Anesthesia Machine Suitable for animals (e.g., dogs and cats). Rebreathing and non-rebreathing circuit. With trolley With patient monitor With oxygen concentrator With endotracheal tube With laryngoscope Soda lime and Isoflurane

			Power: 220V supply voltage and 60Hz
			Inclusions: Accessories, Automatic Voltage Regulator, free in-house training
200	1	box	Vinyl Gloves
			size: Large
			100 pcs per box
			powder-free
201	2	pc	Vol. pipettes 10.75 ml for milk
			Volumetric pipette
			with one ring mark
			10.75 ml milk
			glass
202	1	pack	Volumetric flask
			borosilicate glass, with ground glass cover, 25 mL, Class A, 6pcs/pack, ISO 9000 compatible
203	3	pc	Volumetric Flask 100ml
			☐100 mL (± 0.01 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
204	5	pc	Volumetric Flask 10ml
			☐10 mL (± 0.02 mL)
			☐Class A
			☐Borosilicate Glass with Glass Standard Taper Stopper
			☐calibrated
205	5	pc	Volumetric Flask 50ml
			☐50mL, (± 1 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
206	5	pc	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality)
207	1	pack	Watch Glass
			☐Material: Glass/Borosilicate Glass
			☐Autoclavable: Yes
			☐Outer diameter: 75 mm (7.5cm),
			☐fits 250 mL beakers,
			☐12pcs/pack,
			☐good quality
208	10	pc	weighing pan, rectangular 260mm, 200 mm
209	1	btl	Wright Stain
			Diagnostic reagents: packaging or set Wright stain 500 ml, Buffer for Wright stain 500 ml
210	1	btl	Zinc sulfate (ZnSO₄, 7H₂O) suitable for plant cell and tissue culture
			☐molecular weight: 287.54
			☐500grams

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

1. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);

Technical Documents

2. 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**
3. 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 and Fifty Thousand Pesos (PhP 2,050,000.00)*;
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 and Fifty Thousand Pesos (PhP 2,050,000.00)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least One Million and Twenty Five Thousand Pesos (PhP 1,025,000)*; **and**
4. 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**
5. Conformity with the Technical Specifications; **and**
6. Schedule of Requirements/production and delivery schedule; **and**
7. Manpower requirements; **and**
8. After-sales service/parts; **and**
9. 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

10. 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**
11. The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 4,100,000.00**);
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 410,000.00**).

II. FINANCIAL COMPONENT ENVELOPE

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

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

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

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
3. Statement of Bidder's Single Largest Completed Contract	SLCC
4. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
5. Bid Security	Bid Security
6. Technical Specifications	Technical Specifications
7. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
8. Manpower Requirements	Manpower Requirements
9. After Sales service/parts	After Sales
10. Omnibus Sworn Statement	Omnibus Sworn Statement
11. Audited Financial Statements	Audited Financial Statements
12. Net Financial Contracting Capacity	NFCC
13. Committed Line of Credit	CLC
14. Bid Form	Bid Form
15. Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII. The second folder should contain all requirements under Financial Component checklist.
4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Mr. Leopoldo Escala at leopoldo.escala@vsu.edu.ph before the deadline (December 18, 2023; 8:30 AM)



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