



BID BULLETIN 02

Date: 10 November 2021

Project Title: *Supply and Delivery of Laboratory Equipment, Supplies and Chemicals (GOODS-21-52)*

Location: VSU Main, Visca, Baybay City, Leyte

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

I. LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
<i>Technical Documents</i>	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php 2,073,166.50)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 2,073,166.50 and the largest of which should be at least PhP 1,036,583.25 .
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 30 days for supplies)
9	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 4,146,333.00)
	Or
	Committed Line of Credit (at least Php 414,633.30)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

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

II. Preparation of Electronic 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. Registration Certificate (SEC/DTI)	Registration Certificate
3. Mayor’s/Business Permit	Mayor’s-Business Permit
4. Tax Clearance	Tax Clearance
5. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
6. Statement of Bidder's Single Largest Completed Contract	SLCC
7. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
8. Bid Security	Bid Security
9. Technical Specifications	Technical Specifications
10. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
11. Manpower Requirements	Manpower Requirements
12. After Sales service/parts	After Sales
13. Omnibus Sworn Statement	Omnibus Sworn Statement
14. Audited Financial Statements	Audited Financial Statements
15. Net Financial Contracting Capacity	NFCC
16. Committed Line of Credit	CLC
17. Bid Form	Bid Form
18. Price Schedule	Price Schedule

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



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

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

III. Changes in the Bidding Documents

Original	Amendment
<p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>28 October – 17 November 2021 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>28 October – 17 November 2021 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p>The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:</p> <p>Account Name: Visayas State University Fund 164</p> <p>Account Number: <u>3572-1000-13</u></p> <p>Then send the deposit slip to jessamine.ecleo@vsu.edu.ph</p>



IV. Revised List of Goods and Technical Specifications

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

Item No.	Description	Unit	Qty	ABC/Unit (Pesos)	Total ABC (Pesos)
	Laboratory Chemicals/Supplies				
1	1000 µL pipette tips (Blue)	pack	1	1,000.00	1,000.00
	☐1000 µL pipette tips (Blue) at least 1000 pcs. per pack				
2	1X Dulbecco's Modified Eagle Medium (DMEM)	pack	1	26,000.00	26,000.00
	For cell culture: mammalian suitable				
	Components: 4.5g/L D-Glucose, L-glutamine, 110mg/L Sodium pyruvate				
	Pack of 10 bottles, 500mL per bottle				
	Sterile filtered				
3	200 µL pipette tips (Yellow)	pack	1	500.00	500.00
	200 µL pipette tips (Yellow) at least 1000 pcs. per pack				
4	3 layer Non-woven surgical face mask, at least 50 pcs. per box	boxes	3	200.00	600.00
	3 layer Non-woven surgical face mask				
5	3T3-L1 Cell Line	vial	1	169,220.00	169,220.00
	Organism: Mus musculus, mouse				
	Cell Type: fibroblast				
	Tissue: Embryo				
	Age: embryo				
	Morphology: fibroblast				
	Growth properties: Adherent				
	Validated by the American Type Culture Collection or equivalent				
6	4CN (4-chloro-1-naphthol) Colorimetric Detection Kit	kit	4	34,000.00	136,000.00
	Optimum sensitivity 4CN-delete TMB substrate (3,3', 5,5'-tetramethylbenzidine)				
	Colorimetric detection of HRP conjugated antibodies				
	Suitable for western blotting using HRP conjugated antibodies				
	Sufficient for approximately 50 standard mini blots				
7	5000 ul pipette tips (Neutral), at least 1000 pcs. per pack	pack	4	2,300.00	9,200.00
	☐5000 ul pipette tips (Neutral)				
8	Activated Acid-washed Charcoal	pack	1	15,000.00	15,000.00
	☐Chemical must be plant tissue culture				




	<i>tested for at least 20 years</i>				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
	☐2.5kg per pack				
9	Alcohol, Ethyl, 95% (Tech)	liters	2	115.00	230.00
10	Ammonium Acetate, AR	kgs	8	1,800.00	14,400.00
11	Ascorbic acid	btl	1	1,800.00	1,800.00
	<i>Analytical reagent grade, crystalline powder, 500 g/bottle</i>				
12	Beaker, Glass, 150 mL	pc	25	380.00	9,500.00
	☐Low Form Beaker				
	☐Borosilicate Glass				
	☐Transparent Beaker				
	☐Thickened With Spout				
13	Blot Filter paper, at least 8.6 x 13.5 cm	pack	1	12,100.00	12,100.00
	☐Material: Filter paper from 100% cotton fiber				
	☐For blotting applications as part of the gel, membrane, and filter paper stack, or sandwich				
	☐Dimension: at least 8.6 x 13.5 cm				
	☐Pack of at least 50 sheets				
14	Boric Acid, Analytical Reagent	kgs	6	1,400.00	8,400.00
15	Brightvit Kit with Slides	box	1	12,000.00	12,000.00
	<i>200 slides for 200 test</i>				
	<i>VIT-BV- BrightVit kit wth slides</i>				
16	Cadmium Nitrate Standard for the AAS, 1000ppm, 500ml per bottle	bottle	1	4,000.00	4,000.00
17	Cell Culture Plates, 12-wells	pack	1	20,000.00	20,000.00
	<i>Suitable to a wide range of adherent mammalian cells</i>				
	<i>12-wells cell culture plates/dish</i>				
	<i>Falt-bottom, clear wells</i>				
	<i>Cell culture treated for optimum cell adhesion</i>				
	<i>Ready to use, sterile</i>				
	<i>Suitable for microscopic visualization</i>				
	<i>Non-pyrogenic</i>				
	<i>Pack 50 plates individually packed</i>				
18	Counting Chambers for SCA	box	1	9,500.00	9,500.00
	<i>Disposable counting chambers to analyse motility and concentration of semen.</i>				
	<i>20 micron, 6 chambers.</i>				



	Box of 25 slides/150 tests.				
19	Delicate task wipers, Lint Free	boxes	2	1,000.00	2,000.00
	280sheets/box				
	4.4 x 8.4" <i>Kimwipes-Delete</i> 1-Ply				
	for wiping surfaces, parts, instruments, and lenses				
20	Ethanol Absolute	btl	1	2,500.00	2,500.00
	2.5 Liters/ bottle				
21	Ethyl Alcohol (95%)	canister	6	3,000.00	18,000.00
	95%				
	Container size: plastic waterjug (20L)				
22	Filter paper, #1	box	2	1,200.00	2,400.00
	qualitative analysis				
	125 mm diameter				
	at least 100 pcs. per box				
23	Filter Paper, 12.5 cm. Ashless #42 or equivalent	boxes	14	2,000.00	28,000.00
	Pore size:2.5um				
	at least 100 pcs. per box				
24	filter paper, grade 393, particle retention :1-2um	box	36	1,300.00	46,800.00
	Grade: 393, Diam: 12.5 cm, Quantitative, ashless, pptn: very fine crystalline, particle retention: 1-2 um				
	at least 100 pcs. per box				
25	Gloves, Nitrile, Medium	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: Medium				
27	GoldCyto Counting Chamber	box	1	6,000.00	6,000.00
	GC-SCD-20 samples				
	Goldcyto counting chambers 20 micron- 6 chamber slides				
28	GoldCyto Sperm Kit	box	1	42,000.00	42,000.00
	Microptic				
	20 samples per box				
29	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs./pack	packs	2	1,500.00	3,000.00
	☐Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm				
30	Hairnet	packs	1	80.00	80.00



	<i>disposable, 12 pcs/pack;</i>				
31	Hydrochloric acid, HCl	btls	12	1,000.00	12,000.00
	<i>Analytical reagent grade, concentrated, 2.5L/bottle;</i>				
32	Ice Box Cooler, 110 Liters	boxes	20	4,000.00	80,000.00
	<i>Plastic Cooler Box 110 Liters, 100 kg capacity L-69 x W-49 x H-56 cm with drain system 72 hours insulation time UV resistant Impact resistant Food grade; Color: Blue</i>				
					
33	Immersion oil for microscopic analysis, Type A, 30mL	btl	2	2,100.00	4,200.00
	<i>Type A30 ml per bottle</i>				
34	Lab Gown Long Sleeves L	pcs	2	500.00	1,000.00
	☑ <i>Lab Coat High-quality White</i>				
	☑ <i>Size- Large; long sleeves</i>				
35	Lab Gown Long Sleeves M	pcs	4	500.00	2,000.00
	☑ <i>Lab Coat High-quality White</i>				
	☑ <i>Long Sleeves</i>				
	☑ <i>Medium size</i>				
36	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM	pc	2	14,500.00	29,000.00
	☑ <i>Lab hotplate magnetic stirrer, capable of heating and mixing liquid at the same time.</i>				
	☑ <i>The hot plate stirrer comes with 12*12cm aluminum plate, max. stirring capacity up to 1L, adjustable temperature 380°C and variable speed 200-1600 rpm with two separate knob, convenient use, fast heating and high durability.</i>				
37	Laboratory Weighing Boats	box	3	1,000.00	3,000.00
	<i>Plastic, 100 mL;</i>				
	<i>at least 100 pcs. per box</i>				
38	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</i>				



	EDTA				
	■Contains anionic and cationic surfactants				
	■5 liters per bottle				
39	Magnetic Bar Set	set	1	4,000.00	4,000.00
	7pcs of Mixed size PTFE Magnetic Stirrer Mixer				
	Stir Bars White Color Without Pivot Ring				
	Shape: Cylinder without Pivot Ring				
	Feature: corrosion resistance				
	Quantity: 7 pcs				
	Size: 7pcs of Mixed				
	Size:C5*15mm, C6*20mm, C6*25mm, C7*25mm, C9*30mm, C8*35mm, C7*40mm				
40	Malachite green oxalate	bottle	2	2,500.00	5,000.00
	reagent and microscopy grade				
	25 grams/bottle				
41	Masking tape, autoclavable, for laboratory use	rolls	10	450.00	4,500.00
	1" wide x 55m length;				
42	Microcentrifuge Tubes (2.0mL Capacity)	pack	2	2,000.00	4,000.00
	■2.0mL Capacity				
	■clear				
	■safe-lock				
	■pack of 1000				
	■autoclavable				
43	Nutrient Agar	btl	4	5,455.00	21,820.00
	■500g per bottle;				
44	Pipette Tips (20 ul)	packs	1	500.00	500.00
	■20 ul capacity				
	■autoclavable				
	■100 pcs per pack				
45	plastic containers	pcs	12	50.00	600.00
	Microwavable rectangular plastic containers with cover (750ml);				
46	Potassium dichromate, AR Grade	bottle	4	1,550.00	6,200.00
	500 grams/poly bottle				
47	Potato Dextrose Agar (PDA), 500 grams per bottle	btl	4	4,500.00	18,000.00
48	Resealable Plastic Bag, Large	pack	5	500.00	2,500.00
	resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack				
49	Resealable Plastic Bag, Medium	pack	7	150.00	1,050.00
	resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack;				
50	Reversible Protein Stain Kit for PVDF	btl	2	19,510.00	39,020.00



	Membranes				
	<i>Molecular biology grade Colorimetric in-blot detection method Contains sensitizer, reversible stain, destaining agent, and stain eraser Sufficient for at least 10 PVDF membranes from mini gels Kit for at least 10 PVDF membranes, Bottle of 1.75L ;</i>				
51	ROSS reference electrode filling solution (3M KCl)	pack	1	7,300.00	7,300.00
	☐One pack is composed of 5 bottles				
	☐(60 ml. capacity)				
52	Sodium Hydroxide, AR 500G	btls	14	1,200.00	16,800.00
	☐500 g/bottle, AR, Pellets;				
53	Spectrophotometer Cuvette	set	2	4,800.00	9,600.00
	<i>quartz cuvette, 10mm, standard cell with lid, 45x12.5x12.5 (outside dim, HxWxD), vol. (3.5 mL), path length (10);</i>				
54	Stainless Steel Laboratory Microspatula	pcs	7	150.00	1,050.00
55	Stainless Steel Trays, for Laboratory Use	pcs	110	720.00	79,200.00
	<i>(L 36 cm x W 27 cm); (Depth 6.5 cm);</i>				
56	Sterile Water for Injection, 100ml per bottle	btls	170	120.00	20,400.00
	<i>Other Specification;; Parental Sterile Non-Pyrogenic Diluent;</i>				
57	Stirring Rod	pc	3	50.00	150.00
	☐Standard Size				
	☐Good Quality				
	☐with rubber policeman				
58	Storage Solution for ROSS electrode	btl	1	5,600.00	5,600.00
	☐Orion application solution				
	☐Orion Cat No. 810001.				
	☐One bottle is 475mL.				
59	Sulfuric Acid	btl	12	1,750.00	21,000.00
	☐Analytical Grade (98%)				
	☐2.5 Liters				
	☐specific gravity 1.84				
60	Test Tubes, 13 x 100mm, 250pcs/box	boxes	1	8,000.00	8,000.00
	<i>borosilicate glass, heat resistant, rimless;</i>				
61	Test Tubes, 16 x 100mm, 100 pcs/ box	boxes	1	5,000.00	5,000.00
	☐borosilicate glass, heat resistant, rimless;				
62	Weighing Paper Sheet, Non-Absorbing	pack	2	201.00	402.00
	<i>High-Gloss, Pack of 500</i>				
63	Vortex Mixer, 220V QL-901, 2800RPM	pc	1	14,000.00	14,000.00
64	1000 ml Type 1, class A borosilicate glass Beaker	pcs	3	1,000.00	3,000.00
65	250 ml Type 1, class A borosilicate glass Beaker	pcs	5	600.00	3,000.00



66	500 ml Type 1, class A borosilicate glass Beaker	pcs	3	700.00	2,100.00
67	Boar Semen Evaluation for SCA Set	set	1	109,500.00	109,500.00
	☐(1) GoldCyto Sperm Kit				
	☐(1) GoldCyto Counting Chambers				
	☐(1) Sperm Blue Stain				
	☐(1) BrightVit Kit with Slides				
	☐(1) SCA Counting Chambers				
	☐epT.I.P.S., 20-200ul, Biopur Sterile, Yellow (480 tips (5 racks)				
	☐epT.I.P.S. 50-1000ul, Biopur Sterile, Blue (480 tips (5 racks)				
68	Centrifuge (Conical) Tubes, 15mL Capacity	packs	10	950.00	9,500.00
	☐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 50 Tubes				
69	Centrifuge (Conical) Tubes, 50mL Capacity	packs	15	1,050.00	15,750.00
	☐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				
70	Digital Thermostatic Water Bath	pcs	2	14,900.00	29,800.00
	☐Digital Thermostatic Water Bath with 1 Chamber, 3L Capacity, RT to 100°C, 300W Heating Power, 0.1°C				
71	Erlenmeyer Flask, Glass, 500mL	pcs	4	1,000.00	4,000.00
	☐500mL capacity, borosilicate glass				
72	Gloves, Nitrile, Large	box	10	500.00	5,000.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: large				
73	Graduated Cylinder, Glass, 1000mL	pcs	2	1,500.00	3,000.00
	☐Material: Borosilicate Glass				



	☑Good Quality				
74	Graduated Cylinder, Glass, 250mL	pcs	5	600.00	3,000.00
	☑Material: Borosilicate Glass				
	☑Good Quality				
75	Laboratory Glass Dyeing Cylinder Rack with Cover (Circular)	pcs	2	600.00	1,200.00
	☑with cover				
	☑5 circular				
76	Microcentrifuge Tubes (1.5mL Capacity)	packs	4	1,000.00	4,000.00
	☑1.5mL Capacity				
	☑clear				
	☑safe-lock				
	☑pack of 1000				
	☑autoclavable				
77	Micropipette Tip, 1000 uL	packs	5	750.00	3,750.00
	☑capacity, 1000 uL				
	☑Standard tip, graduated				
	☑Autoclavable				
	☑Pack of 1000 tips				
78	Micropipette Tip, 200 uL	packs	4	550.00	2,200.00
	☑capacity, 200 uL				
	☑Short tip, graduated,				
	☑Autoclavable				
	☑Pack of 1000 tips				
79	Microscope Slides and cover slips	pcs	10	370.00	3,700.00
	☑Pre-Cleaned Blank slides with 100 22 x 22 mm square Cover Slip				
80	Reagent Bottle 250mL	pcs	5	400.00	2,000.00
	☑amber colored bottle with HDPE blue screw cap, 250mL				
81	Reagent Bottle 500mL	pcs	5	500.00	2,500.00
	☑Amber colored bottle with HDPE orange screw cap, 500mL				
82	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk	packs	3	2,000.00	6,000.00
82a	100 ml Type 1, class A borosilicate glass test tube	pcs	50	100.00	5,000.00
83	Styrofoam Box Z1	box	15	180.00	2,700.00
	☑8.5 x 8.5 x 6.75 inches				
84	Test Tube, Glass, Graduated, 20mL	pcs	10	100.00	1,000.00
	☑with Screw Cap				
85	Test Tube, Glass, Graduated, 50mL	pcs	10	105.00	1,050.00
	☑with Screw Cap				
86	1st BASE MBS MBS-5009 Fish DNA Barcoding, COI (~700bp)	sets	24	3,543.75	85,050.00



	☑Inclusions				
	◀-Extraction of gDNA				
	◀-PCR amplification and Purification				
	◀-Bidirectional PCR product sequencing				
	◀-Data analysis(BLAST to show the top 10 matches from database)				
87	1st BASE MBS-5007 Custom DNA Barcoding	sets	24	7,087.50	170,100.00
	☑Custom DNA Barcoding: primer sequence provided by customer.				
	☑Project for primer set x 24 samples				
	☑Inclusions:				
	◀-Extraction of gDNA				
	◀-PCR amplification and Purification				
	◀-Bidirectional PCR product sequencing				
	◀-Data analysis (BLAST to show the top 10 matches from database)				
88	Herbarium Mounting Paper	packs	3	1,650.00	4,950.00
	Desired product: Carolina Biological Supply Herbarium Mounting Paper				
	Specifications:				
	Acid-free: Yes				
	Size (LxW) : 11-1/2 x 16-1/2".				
	Thickness: 188 mm				
89	Microcentrifuge	packs	2	900.00	1,800.00
	Desired product: Eppendorf Tube® 5.0 mL (EP-00301)				
	Specifications:				
	Cap Type: Snap Cap				
	Capacity: 5.0 milliliters				
	Length: 54 millimeters				
	Material: Polypropylene (PP)				
	Autoclavable: Yes				
	Temp range: +121 °C to -196 °C.				
	Color: clear				
90	Self-standing centrifuge tubes	packs	2	1,250.00	2,500.00
	Desired product: 50ml Plastic Centrifuge Tubes with Screw Cap, CBTONE 50 Pack Self-Standing Plastic 50ml Test Tube Polypropylene Conical Tubes with Cap, Graduated Marks				
	Specifications:				
	Cap type: Screw cap				
	Capacity (Metric): 50 mL				
	Length (Metric): 115 mm				
	Material: Polypropylene (PP)				



	Dimension (D*L): 1.0 x 4.5inch / 25 x 114mm				
91	Temperature-Humidity Data Logger	piece	5	2,000.00	10,000.00
	☐ Portable and hand-held				
	☐ 16000 data recording capacity.				
	☐ Adjustable record interval: 10s~24hour				
	☐ Multi-function LCD				
	☐ Internal NTC temperature thermal sensor with optional external sensor				
	☐ Data export in PDF/EXCEL via data management software				
	☐ Selectable °F/°C temperature unit				
	☐ Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	☐ Good quality				
	☐ Durable				
	Rebidding (from GOODS-21-35)				
92	1.0 um Polystyrene microspheres (5 ml)	pc	2	7,000.00	14,000.00
93	1.5 um Polystyrene microspheres (5 ml)	pc	2	7,000.00	14,000.00
94	100 ml Type 1, class A borosilicate glass test tube	pcs	5	100.00	500.00
95	2.5 um Polystyrene microspheres (5 ml)	pc	2	7,000.00	14,000.00
96	24 mm x 50mm cover glass (0.13- 0.17 mm thickness) at least 100 pcs. per box, washed and clean, ready to use, good quality	boxes	30	200.00	6,000.00
97	Automatic Oil Press Extractor Machine (2L)	pc	1	14,950.00	14,950.00
98	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs per pack	packs	3	700.00	2,100.00
99	Green 0.1 um Fluorescent Polystyrene microspheres	btl	1	10,000.00	10,000.00
100	Lab Gown Long Sleeves L	pcs	5	500.00	2,500.00
	☐ Lab Coat High-quality White				
	☐ Size- Large; long sleeves				
101	4-Nitrophenol or p-Nitrophenol	vial	1	7,000.00	7,000.00
	☐ Analytical standard, Powder or crystal form, HPLC suitable Vial of 1g				
102	Adipogenesis Differentiation Kit	pack	2	48,800.00	97,600.00
	☐ Molecular Biology grade				
	☐ Suitable for mammalian cell culture primarily 3T3-L1 cells				
	☐ Liquid form				
	☐ ≤ 50 EU/ml endotoxin level				
	☐ High glucose				
	☐ NO HEPES and phenol red				
	☐ With adipogenesis supplements				



	☐Kit of at least 100mL basal medium and 10mL supplement				
103	Agar Agar	kilos	3	2,800.00	8,400.00
104	Alcohol, Denatured	gallons	16	500.00	8,000.00
105	Alcohol, Ethyl, 75% solution, 1 gallon	gallon	1	600.00	600.00
106	Alcohol, Ethyl, 95% (Tech)	liters	20	115.00	2,300.00
107	Aluminum Burette Clip Titration Clamp	pc	1	500.00	500.00
108	Analytical Balance (500/0.001 g)	pc	1	14,950.00	14,950.00
	<i>Lab Analytical Balance Scale 0.001g</i>				
109	Binocular	pc	1	5,500.00	5,500.00
	☐preferably 7-10X magnification; 35-50 exit pupil				
	☐waterproof, fog proof, weather resistant				
110	Bovine Calf Serum	btl	1	5,500.00	5,500.00
	☐Molecular biology grade				
	☐Suitable for mammalian cell culture				
	☐Hemoglobin, ≤35 mg/dL; ≤10 EU/mL endotoxin				
	☐Sterile-filtered				
	☐Bottle of at least 100mL				
111	Buffer solution, pH 9, 1000 ml.	btl	1	1,000.00	1,000.00
112	C/EBPα polyclonal antibody, unconjugated	Vial	1	35,600.00	35,600.00
	☐C/EBPα polyclonal antibody, unconjugated				
	☐Molecular Biology grade				
	☐Suitable for mammalian cell culture				
	☐ <i>Suitable primarily</i> For Western Blot. <i>Suitable for IF, ICC, IHC is optional</i>				
	☐ Reactive to Human, Mouse, Rat				
	☐Host/Isotype: Rabbit / IgG				
	☐Concentration: 1 mg/mL				
	☐Vial of 100ug				
113	Calcium Bromide, at least 100 grams per bottle	btl	1	2,712.00	2,712.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
114	Calcium Phosphate	btl	1	1,500.00	1,500.00
	☐Analytical Grade				
	☐500 G bottle				
115	Caspase 3 polyclonal antibody, unconjugated	Vial	1	64,600.00	64,600.00
	☐Molecular Biology grade				
	☐Suitable for mammalian cell culture				



	<ul style="list-style-type: none"> ☐ <i>Suitable primarily For Western Blot. Suitable for IF, ICC, IHC is optional</i> 				
	☐ <i>Reactive to Human, Mouse, Rat</i>				
	☐ <i>Host/Isotype: Rabbit / IgG</i>				
	☐ <i>Concentration: 0.5 mg/mL</i>				
	☐ <i>Vial of at least 100uL/ug</i>				
	☐ <i>unconjugated</i>				
116	Cell Counting Dye	btl	1	5,000.00	5,000.00
	☐ <i>Molecular biology grade</i>				
	☐ <i>Suitable for all types of cell lines</i>				
	☐ <i>Microscopic counting or machine counting compatible</i>				
	☐ <i>Colorimetric detection method</i>				
	☐ <i>Sufficient for at least 750 counts (10 µl/count)</i>				
	☐ <i>Contains at least 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution</i>				
	☐ <i>Bottle of 100mL, sterile filtered"</i>				
117	Cesium Fluoride, at least 500g/btl.	btl	1	2,375.00	2,375.00
	☐ <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>				
118	Cloth bag, pouch type	pc	75	40.00	3,000.00
	☐ <i>9x7 inch, preferably cream color</i>				
119	Cryogenic tube with screw and cap	pack	1	22,550.00	22,550.00
	☐ <i>volume 5 mL, with external thread, self-standing, RNase and DNase free, sterile, 1000 EA per pack</i>				
120	Dial Caliper	pc	2	3,800.00	7,600.00
	☐ <i>Dial face scales in Decimal Inch (black) and Metric (red).</i>				
	☐ <i>Hardened stainless steel throughout.</i>				
	☐ <i>Inside, outside, step and depth measurement.</i>				
	☐ <i>Raised sliding surface prevents wear and defacement of graduations.</i>				
	☐ <i>Covered, stainless steel rack.</i>				
	☐ <i>Ranges available: 6"/ 150mm, 8"/200mm, 12"/300mm</i>				
	☐ <i>Graduation: .001"/.02mm</i>				



	<ul style="list-style-type: none"> ☐ Shock Proof: Shock-Proof offers increased accuracy over standard gear configurations. It is equipped with a dual heavy duty springs to control anti-backlash. Backlash is the amount of clearance between mated gear teeth in the caliper controls that prevents the gear teeth from jamming. The shock proof mechanism will keep our caliper for years of continuous use 				
121	Digital Weighing Scale, 50kg	set	1	5,000.00	5,000.00
	<ul style="list-style-type: none"> ☐ 1g accuracy ☐ maximum of 50 kg ☐ materials: metal 				
122	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl	btl	3	3,000.00	9,000.00
123	Dry Heat Sterilizer, at least 28L	pc	2	9,000.00	18,000.00
124	Ethanol, Technical Grade	btl	3	7,500.00	22,500.00
	<ul style="list-style-type: none"> ☐ 95% solution, 20L 				
125	Ethyl Acetate	btl	4	2,200.00	8,800.00
	<ul style="list-style-type: none"> ☐ Analytical Reagent Grade, 2.5L per bottle 				
126	Fetal/Foetal Bovine Serum (FBS)	btl	4	8,500.00	34,000.00
	<ul style="list-style-type: none"> ☐ Cell culture: mammalian cell culture suitable ☐ Certified Purity or Quality Grade ☐ Heat inactivated ☐ Endotoxin Level: ≤ 5 EU/mL ☐ Hemoglobin level: ≤ 15 mg/dL ☐ 100 mL per bottle ☐ Species: Cattle/Bovine 				
127	Filter Paper	box	5	600.00	3,000.00
	<ul style="list-style-type: none"> ☐ Filter Paper No.1 ☐ Qualitative Circles 125mm (12.5cm) ☐ Qty/box: 100 pieces per box ☐ Porosity: Medium ☐ Flow Rate: Medium 				
128	Filter Paper, 12.5 cm. Ashless 2.5um pore size, at least 100 pcs per box	boxes	10	1,150.00	11,500.00
129	Firing Cotton	pc	2	590.00	1,180.00
	<ul style="list-style-type: none"> ☐ Part No: 3K-FC ☐ Quantity: 1 Packet of 200 threads (Per Kit), 1 Packet of 1000 threads (10 per bundle) (Sold Separately) ☐ Compatibility: Automatic Bayonet Vessel / Manual Bayonet Vessel ☐ Application: Used to ignite the sample in the CAL3K Vessel. 				
130	Firing Wire	pc	2	525.00	1,050.00
	<ul style="list-style-type: none"> ☐ Part No: 3K-4-FW 				



	☐Quantity: 1 Packet of 5 wires (Per Kit & Sold Separately)				
	☐Compatibility: Automatic Bayonet Vessel / Manual Bayonet Vessel				
	☐Application: Used to ignite the sample in the CAL3K Vessel.				
131	Gloves, Nitrile, Medium	box	10	1,450.00	14,500.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: Medium				
132	Gloves, Nitrile, Small	box	25	1,450.00	36,250.00
	☐box or 100-50 pairs, small				
	☐natural rubber latex-free, powderless				
	☐micro grip				
133	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated, in liquid form	Vial	2	12,000.00	24,000.00
	☐Molecular Biology grade				
	☐Suitable for mammalian cell culture				
	☐For Western Blot, IF, ICC, IHC				
	☐Host/Isotype: Goat / IgG				
	☐Concentration: 1mg/mL				
134	Graduated Pitcher, at least 2 liter capacity, Plastic, for laboratory use	pc	1	1,000.00	1,000.00
135	High Precision Magnetic Pocket Transit Geological Compass Scale	pc	2	890.00	1,780.00
	☐0-360 degrees				
	☐good finish, clear printing.				
	☐Small and exquisite, lightweight and easy to carry				
	☐The magnetic pointer is strong and the scale is accurate				
	☐Material: Plastic				
	☐Color: preferably green				
	☐Needle-lock to protect the compass assembly during transit and gear driven adjustable declination to allow for simple compensated bearings.				
	☐Features include a compass bubble level, clinometer level, sighting mirror with lubber line and sighting hole, induction dampened needle, and adjustable sighting points.				
136	Induction Motor	pc	1	8,000.00	8,000.00
	☐Voltages - 220 to 240v,60hz,.37kw, 0.5HP				
137	Insulin, human recombinant	Vial	1	31,400.00	31,400.00
	☐cell culture mammalian: suitable				



	☐sterile filtered of at least 0.2 μ m				
	☐ \geq 27.5 units/mg potency				
	☐dry powder, 100mg				
138	Laboratory Weighing Boats, 100pcs/pack	packs	4	1,000.00	4,000.00
	☐ 3.5 x 7.25 x 3.2"; 2.49lbs, 100ml				
139	Latex Disposable Gloves Powder Free (Medium), 100 pcs or 50 pairs per box	boxes	6	600.00	3,600.00
140	LB Broth, 500g per bottle	btl	5	1,150.00	5,750.00
141	Lemongrass Essential Oil	btl	1	2,000.00	2,000.00
	☐Lemongrass Oil (<i>Cymbopogon citratus</i> , 30 ml)				
142	Lemongrass essential Oil, 15mL	btl	1	2,000.00	2,000.00
	☐Lemongrass Oil (<i>Cymbopogon flexuosus</i> , 15 ml)				
143	Lithium Bromide, 500g/bottle	btl	1	1,250.00	1,250.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
144	Lithium Iodide, 500g/bottle	btl	1	1,050.00	1,050.00
	☐Anhydrous				
	☐Lab grade/Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
145	Magnesium Nitrate, 500g/bottle	btl	1	1,947.00	1,947.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
146	Malt Yeast Extract Agar	btl	1	1,578.00	1,578.00
	☐Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation				
	☐pH: 4.7 \pm 0.2 at 25°C				
	☐solubility: without rests				
	☐Appearance: fine powder				
	☐100 grams				
147	N-octanol	btl	1	1,616.00	1,616.00
	☐Technical grade				
	☐Purity: 99%				
	☐5 liters				
148	Open Reel Measuring Tape	pc	2	2,000.00	4,000.00
	☐Fiberglass				
	☐Stainless steel frame				
	☐Specification: 30M/50M/100M				



	(98ft/164ft/328ft)				
	☐Material: Stainless steel				
	☐ABS Unit: Metric/Imperial				
	☐Dimension: 30M: approx. 25x17x2cm 50M: approx. 31x18x2.5cm 100M: approx. 31x18x2.5cm				
	☐Rugged, Impact-resistant				
	☐Plating ruler tape/nylon ruler tape, with good clarity and wear-resistant.				
	☐Features Cone Tip Stake for Accurate Measurements and Stability.				
	☐Comes with a convenient carry handle.				
	☐Easy to read Metric and Imperial graduation				
149	Ordinary Vernier Caliper	pcs	5	110.00	550.00
	☐Plastic material				
	☐Up to 150mm measuring range				
	☐accuracy at least 1mm				
	☐double scale measurement				
	☐no battery				
	☐Ultra precision and effortless operation.				
150	Paraformaldehyde	btl	2	3,200.00	6,400.00
	☐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				
151	Perilipin 1 Polyclonal Antibody, unconjugated, in liquid form	Vial	1	53,100.00	53,100.00
	☐Molecular Biology grade				
	☐Suitable for mammalian cell culture				
	☐For Western Blot, IF, ICC, IHC				
	☐Host/Isotype: Rabbit / IgG				
	☐Reactive to mouse, rat				
	☐Concentration: 1 mg/mL				
152	Petri dish	pc	100	200.00	20,000.00
	☐comprise a lid and base				
	☐high clarity glass				
	☐borosilicate glass				
	☐size:				
	◀ Cover int. dia mm : 95				
	◀ Base ext. dia mm: 94				
	◀ Size: 100 x 20				
153	Phenolphthalein Indicator Powder	btl	1	1,000.00	1,000.00
	☐AR grade, 125 grams				



154	PI-3 Kinase p110α antibody, unconjugated, in liquid form	Vial	1	64,200.00	64,200.00
	☐Molecular Biology grade				
	☐Suitable for mammalian cell culture				
	☐For Western Blot, IF, ICC, IHC				
	☐Reactive to Human, Mouse, Rat				
	☐Host/Isotype: Rabbit / IgG				
155	Picric Acid, 1Li./Bottle	btls	1	7,000.00	7,000.00
	☐Saturated, Aqueous solution				
	☐Physical form: Liquid				
	☐Color: Yellow				
	☐Concentration or Composition Notes:				
	☐Approximately 1.2% (w/v)				
	☐Molecular Weight (g/mol): 229.104				
156	Pipette Tips (20 ul)	packs	5	500.00	2,500.00
	☐20 ul capacity				
	☐autoclavable				
	☐100 pcs per pack				
157	Plastic cup with cover	pack	1	165.00	165.00
	☐30 ml capacity				
	☐same size as fast food gravy container				
	☐round shape				
	☐transparent				
	☐at least 60pcs cup in one pack				
158	Potassium Chromate 500g per bottle	btl	1	1,050.00	1,050.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
159	Potassium Fluoride 500g per bottle	btl	1	1,832.00	1,832.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
160	Potentiometer	set	1	400.00	400.00
	☐Quantity: 25pcs				
	☐Turns: 25 turns				
	☐Power: 0.5W, 1/2W				
	☐Resistive Material: Cermet				
	☐Resistance Tolerance: $\pm 10\%$				
	☐Mounting Type: Through Hole				
	☐Resistance Change Type: Linear				
	☐Adjustment Type: Top Adjustment				
	☐Storage temperature: -55°C ~ +125°C				



	☐Temperature Coefficient: $\pm 100\text{ppm}/^\circ\text{C}$				
161	PVDF membrane for Western blotting, 8.5 x 13.5 cm	pack	1	96,700.00	96,700.00
	☐PVDF-Filter paper sandwich				
	☐Detection methods: Chemiluminescence, Colorimetric				
	☐Pore Size: 0.20um; 150-160 ug/cm ² binding capacity				
	☐Target protein >20 kDa				
	☐Dimension: at least 8.6 x 13.5 cm				
	☐Pack of at least 50 sandwiches				
	☐Pre-assembled blotting membrane & blotting paper				
162	Reagent Bottle	pc	10	300.00	3,000.00
	☐With Stopper/Screw Cap				
	☐Material: Glass/Borosilicate Glass				
	☐Color: Clear/Transparent Flask				
	☐Capacity: 2000mL				
	☐Graduation: 1800mL				
163	Resealable Plastic Bag, Large	packs	2	500.00	1,000.00
	☐resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack				
164	Resealable Plastic Bag, Medium	packs	3	150.00	450.00
	☐resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack				
165	Resealable Plastic Bag, Small	packs	3	100.00	300.00
	☐resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack				
166	Scalpel Blade	box	1	280.00	280.00
	☐Stainless steel☐100 blades/box				
167	Sodium Hydroxide, Technical Grade, 1KG, Pellets	btls	2	500.00	1,000.00
	☐Technical grade, pellets, 1 kg				
168	Sodium Iodide at least 500g per bottle	btl	1	1,702.00	1,702.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
169	Sodium Nitrate, at least 500g per bottle	btl	1	527.00	527.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
170	Stainless Steel Crucible Tongs	pc	1	1,000.00	1,000.00
	☐25 cm				
	☐Stainless Steel				



171	Standard Berlese Funnel (Tullgren Funnel)	piece	1	9,500.00	9,500.00
	☐Contents:				
	* Funnel				
	* Mesh tray				
	* Mesh lid				
	* 50ml collecting tube				
	* Aluminum housing				
	☐Specifications:				
	* Housing: Length 365mm x Width 365mm x Height 520mm				
	* Funnel: Diameter 340mm x Height 350mm				
	* Mesh tray: Diameter 300mm				
	* Mesh lid: Diameter 335mm				
	* Weight (including frame): 1.55kg				
172	Standard Size Marble Base Titration Stand	pc	1	2,500.00	2,500.00
	☐Marble base with iron/aluminum stand for buret				
173	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk	packs	9	2,000.00	18,000.00
174	Strontium Nitrate, at least 500 grams per bottle	btl	1	1,050.00	1,050.00
	☐Anhydrous				
	☐Lab grade/ Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottle				
175	Temperature-Humidity Data Logger	piece	1	2,000.00	2,000.00
	☐Portable and hand-held				
	☐16000 data recording capacity.				
	☐Adjustable record interval: 10s~24hour				
	☐Multi-function LCD				
	☐Internal NTC temperature thermal sensor with optional external sensor				
	☐Data export in PDF/EXCEL via data management software				
	☐Selectable °F/°C temperature unit				
	☐Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	☐Good quality				
	☐Durable				
176	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	pcs	3	800.00	2,400.00
	☐Stainless steel				
177	Test Tube Rack, 20 mm x 24 tubes	pc	3	800.00	2,400.00
	☐Stainless Steel, 20 mm diameter holes, capacity 24 test tubes				
178	Test Tube Racks, 12MM x 12 Holes	pcs	4	600.00	2,400.00



	☐Stainless Steel Holes Test Tube Rack				
179	Weighing Scale, Hanging, Analog	pc	2	3,000.00	6,000.00
	☐Readability: 0.1g to 0.0000001g				
	☐Accuracy: ±1%				
	☐Weight capacity: 0g up to 3000g				
180	Woven Filters, Nylon Mesh, 10pcs/pack	packs	2	22,200.00	44,400.00
	☐Mesh Opening: 5 um				
	☐Water affinity: hydrophilic				
	☐High Strength and Adsorption				
	☐30 X 30 cm sheet				
	☐Thickness: 100 um				
181	Zinc Bromide, at least 100g per bottle	btl	1	3,467.00	3,467.00
	☐Anhydrous				
	☐Lab grade/Analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
182	β-actin polyclonal antibody, unconjugated	Vial	1	41,000.00	41,000.00
	"☐Molecular Biology grade				
	☐Suitable for mammalian cell culture				
	☐ Suitable primarily For Western Blot. Suitable for IF, ICC, IHC is optional				
	☐Reactive to Human, Mouse, Rat				
	☐Concentration: 1 mg/mL				
	☐Host/Isotype: Rabbit / IgG				
	☐Vial of at least 100ug"-delete 50ug"				
	Total (Laboratory Chemicals/Supplies):				2,568,633.00
	Laboratory Equipment				
183	Central Bench, Specification L*D*H(mm); 2000*700*900, Frame: Steel Structure; Cabinet: use high quality	set	1	52,000.00	52,000.00
	Central Bench				
	Specification LxDxH (mm): 2000x700x900;				
	Frame: Steel structure;				
	Cabinet:4 mobile cabinets, 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.				
	with on-site installation, movable				
	with 2 gang electrical outlets				
184	Tensile/Bending Compression Testing Machine	unit	1	200,000.00	200,000.00



	<i>computer controlled; at least 500N capacity; switchable units; resolution-1/20,000; plus-minus 1% load accuracy; maximum grip length at least 550mm/minute; sample rate at least 10x/second; single phase motor at least 3A, 220V at 50/60hz; ; at least 1 year warranty on parts; with free commissioning training site; free installation on site (VSU Main Campus).;</i>				
185	20.6 cu.ft. Heavy Duty Side by Side Inverter Refrigerator	unit	1	52,000.00	52,000.00
	<input type="checkbox"/> 20 cu.ft. HD Inverter Side by Side Refrigerator				
	<input type="checkbox"/> No-frost Refrigerator				
	<input type="checkbox"/> Energy efficient inverter compressor				
	<input type="checkbox"/> Quick freeze and quick chill mode				
	<input type="checkbox"/> Weight 90 kg				
	<input type="checkbox"/> Dimensions 76 x 90 x 170 cm				
	<input type="checkbox"/> Digital Temperature Control with LED Display				
	<input type="checkbox"/> Independent Temperature Control				
	<input type="checkbox"/> Child Lock				
	<input type="checkbox"/> Vacation Mode				
	<input type="checkbox"/> Eco-LED Lights				
	<input type="checkbox"/> Spill – Proof Tempered Glass Shelves				
	<input type="checkbox"/> Heavy Duty Handle				
	<input type="checkbox"/> Textured Body (Rust and Stain Resistant)				
	<input type="checkbox"/> 3 Twist Ice Cube Trays and Ice Cube Container				
	<input type="checkbox"/> Adjustable Leveling Feet				
	<input type="checkbox"/> Input Power: 170W				
186	Liquid Nitrogen Self- Pressurized Tank, with Liquid Nitrogen content (60L)	unit	1	542,700.00	542,700.00
	<input type="checkbox"/> Self-pressurizing tank				
	<input type="checkbox"/> 60L capacity				
	<input type="checkbox"/> double wall, stainless steel tank used				
	<input type="checkbox"/> suitable for the programmable freezer (IMV MicroDigit Cool)				
	<input type="checkbox"/> includes hose and pressure system for manual loading of liquid nitrogen from larger storage tanks				
187	Liquid Nitrogen Tanks and Peripherals	set	1	280,000.00	280,000.00
	<input type="checkbox"/> Set of Liquid Nitrogen Tanks:				
	◀1 - Spectrum 35				
	◀2 - Spectrum 20				
	◀1 - Spectrum 3				
	◀1 - ET-3				
	<input type="checkbox"/> Peripherals				
	◀Two-shelf canisters				



	◀Daisy goblets various colors (65mm)				
	◀Visotubes various colors				
	◀Flag for canister lifter				
	◀Identifier without flag				
	◀Liquid nitrogen measuring stick (1000mm)				
	◀Protective glasses				
188	Professional Water Purifier - RO and DI Output	unit	1	107,000.00	107,000.00
	▣Professional Water purifier produce RO and DI water, widely used in hospital, research lab, industry, university etc. Automatically power on and power off according the water inflow or water outflow.				
	◀Flow procedure: PF+AC+RO+DI				
	◀Feed water requirement: Tap water: TDS<200ppm, 5-45°C, 1.0-4.0Kgf/cm ² ; (if inlet TDS>200ppm, extra pretreatment is recommended)				
	◀Desalination rate (%): Nearly 100				
	◀Output(25°C): 15 liters/hour*				
	◀Flow rate: 2 Liters/min(with pressure tank)				
	◀Pure water outlet: RO water, deionized water				
	◀Control system: Automatic electronic pressure sensor, RO membrane auto flushing, automatic stop without water, automatic stop when water tank full, automatic cutting off if pump stopping, guaranteeing 24 hours' work.				
	◀Power supply: AC110/220V,50/60Hz				
	◀Standard configuration: Main body(including:1 set cartridge, 15Lwater tank, TDSmeter, accessory box, Pure water outlet, Control system				
	◀Free Installation Included				
189	Vertical Laminar Flow Hood BBS-SDC-delete with Stand	unit	1	250,000.00	250,000.00
	▣HEPA Filters - Performance: 99.995% 0.3 um				
	▣Air speed adjustable				
	▣Motor controlled front sash				
	▣Display: LED				
	▣Filter Efficiency: > 99.995% at 0.3um				
	▣Airflow Velocity: Average of 0.3~0.5m/s				
	▣Noise Level: < 60 dB Fluorescent				
	▣Lamp:28W*1				
	▣UV Lamp:30W*1				
	▣Power Consumption: 480W				
	▣Front Sash: Tempered glass, no less than 5mm, anti-ultraviolet radiation				



	<ul style="list-style-type: none"> ☐Main Body Material: Adopting cold-roll steel plate with corrosion-proof coating 				
	<ul style="list-style-type: none"> ☐Work Zone Material: 304 stainless steel 				
	<ul style="list-style-type: none"> ☐Base Stand Material: Adopting cold-roll steel plate with corrosion-proof coating 				
	<ul style="list-style-type: none"> ☐Caster: Reverse Wheel with brake 				
	<ul style="list-style-type: none"> ☐Electrical : 10~240V/50~60Hz 				
	<ul style="list-style-type: none"> ☐Standard Accessory: Light, UV, Base Stand 				
	<ul style="list-style-type: none"> ☐Net Weight: 160 kg Package Size 1580*750*1950 mm 				
190	<p>pH / Temperature Laboratory Bench Meter</p>	unit	1	29,000.00	29,000.00
	<ul style="list-style-type: none"> ☐Advanced pH/Temp microprocessor-based bench meter. It is ideal for students and technicians who need fast and reliable measurements. 				
	<ul style="list-style-type: none"> ☐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: 				
	<ul style="list-style-type: none"> ◀Automatic Temperature Compensation (ATC) for good accuracy under fluctuating temperatures 				
	<ul style="list-style-type: none"> ◀Easy to read large custom LCD 				
	<ul style="list-style-type: none"> ◀Easy and Quick Push-button Calibration 				
	<ul style="list-style-type: none"> ◀7 memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45) for calibration 				
	<ul style="list-style-type: none"> ◀Messages on the LCD to make the calibration easy and accurate 				
	<ul style="list-style-type: none"> ◀User-selectable "calibration time out" to remind when a new calibration is necessary 				
	<ul style="list-style-type: none"> ◀Stability Indicator prompts whenever reading stabilizes. 				
	<ul style="list-style-type: none"> ☐Moreover, it offers an extended temperature range from -20°C (-4°F) to 120°C (248°F), 				
	<ul style="list-style-type: none"> using the MA831R interchangeable temperature probe. 				
	<ul style="list-style-type: none"> ☐Specific Details: 				
	<ul style="list-style-type: none"> ◀Range: pH -2.00 to +16.00 pH 				
	<ul style="list-style-type: none"> ◀Temp.: -20.0 to +120oC / -4.0 to +248oF 				
	<ul style="list-style-type: none"> ◀Resolution: pH 0.01pH 				
	<ul style="list-style-type: none"> ◀Temp.: 0.1oC (0.1oF) 				
	<ul style="list-style-type: none"> ◀Accuracy: pH +/- 0.01 pH (@20oC / 68oF) 				
	<ul style="list-style-type: none"> Temp.: +/- 0.4oC / +/- 0.8oF 				
	<ul style="list-style-type: none"> ◀Typical EMC pH: +/- 0.02 pH 				
	<ul style="list-style-type: none"> ◀Deviation Temp.: +/- 0.4oC / +/- 0.8oF 				
	<ul style="list-style-type: none"> ◀pH Automatic Calibration: 1 or 2 point calibration, with 7 memorised buffers 				
	<ul style="list-style-type: none"> ◀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.				
191	Portable Oxygen Monitor	unit	1	35,000.00	35,000.00
	▣ Personal single gas monitor designed for protection in workspaces where liquid nitrogen is used.				
	▣ Portable/pocket size				
	▣ Lightweight				
	▣ IP-67 waterproof rating				
	▣ Audible/visual/vibration alarms				
	▣ Automatic backlight				
192	DEEP FREEZER	unit	1	30,000.00	30,000.00
	▣ 13 cubic feet Chest Freezer				
	▣ Wire basket shelving material				
	▣ 216 Watts				
	▣ No Frost				
	▣ with inverter				
	▣ Charcoal deodorizer, 220V or auto voltage				
	Total (Laboratory Equipment)				1,577,700.00
	GRAND TOTAL:				4,146,333.00

DILBERTO O. FERRAREN
BAC Chairman