



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Laboratory Equipment, Supplies, and Chemicals (GOODS-21-52)

Government of the Republic of the Philippines

November 17, 2021; 9:00 AM
Cooperative Building, VSU Market, Visca, Baybay City,
Leyte

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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)

STFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid



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


1. The *Visayas State University – Main Campus* through the GF, STF, and TF 2021 intends to apply the sum of *Four Million One Hundred Forty-Six Thousand Three Hundred Thirty-Three Pesos (PhP 4,146,333.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Equipment, Supplies, and Chemicals (GOODS-21-52)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University – Main Campus*, through the GF, STF, and TF 2021 intends to apply the following ABC per item to payments under the contract for each item, to wit:

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 μ L 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 μ L 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: <i>Mus musculus</i> , mouse				
	Cell Type: fibroblast				
	Tissue: Embryo				
	Age: embryo				
	Morphology: fibroblast				
	Growth properties: Adherent				
	Validated by the American Type Culture				

	<i>Collection or equivalent</i>				
6	4CN (4-chloro-1-naphthol) Colorimetric Detection Kit	kit	4	34,000.00	136,000.00
	<i>Optimum sensitivity 4CN substrate</i>				
	<i>Colorimetric detection of HRP conjugated antibodies</i>				
	<i>Suitable for western blotting using HRP conjugated antibodies</i>				
	<i>Sufficient for approximately 50 standard mini blots</i>				
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 tested for at least 20 years				
	☐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>				
	<i>Box of 25 slides/150 tests.</i>				
19	Delicate task wipers	boxes	2	1,000.00	2,000.00
	<i>280sheets/box</i>				
	<i>4.4 x 8.4" Kimwipes 1-Ply</i>				
	<i>for wiping surfaces, parts, instruments, and lenses</i>				
20	Ethanol Absolute	btl	1	2,500.00	2,500.00
	<i>2.5 Liters/ bottle</i>				
21	Ethyl Alcohol (95%)	canister	6	3,000.00	18,000.00
	<i>95%</i>				
	<i>Container size: plastic waterjug (20L)</i>				
22	Filter paper, #1	box	2	1,200.00	2,400.00
	<i>qualitative analysis</i>				
	<i>125 mm diameter</i>				
	<i>at least 100 pcs. per box</i>				
23	Filter Paper, 12.5 cm. Ashless #42 or equivalent	boxes	14	2,000.00	28,000.00
	<i>Pore size:2.5um</i>				
	<i>at least 100 pcs. per box</i>				
24	filter paper, grade 393, particle retention :1-2um	box	36	1,300.00	46,800.00
	<i>Grade: 393, Diam: 12.5 cm, Quantitative, ashless, pptn: very fine crystalline, particle retention: 1-2 um</i>				
	<i>at least 100 pcs. per box</i>				
25	Gloves, Nitrile, Medium	box	4	1,500.00	6,000.00
	☐ <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>				

	☑Food Safe				
	☑Size: Medium				
27	GoldCyto Counting Chamber	box	1	6,000.00	6,000.00
	<i>GC-SCD-20 samples</i>				
	<i>Goldcyto counting chambers 20 micron- 6 chamber slides</i>				
28	GoldCyto Sperm Kit	box	1	42,000.00	42,000.00
	<i>Microptic</i>				
	<i>20 samples per box</i>				
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
	☑Lab Coat High-quality White				
	☑Size- Large; long sleeves				
35	Lab Gown Long Sleeves M	pcs	4	500.00	2,000.00
	☑Lab Coat High-quality White				
	☑Long Sleeves				
	☑Medium size				
36	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM	pc	2	14,500.00	29,000.00

	<ul style="list-style-type: none"> ☐ Lab hotplate magnetic stirrer, capable of heating and mixing liquid at the same time. 				
	<ul style="list-style-type: none"> ☐ The hot plate stirrer comes with 12*12cm aluminum plate, max. stirring capacity up to 1L, adjustable temperature 380°C and variable speed 0-1600 rpm with two separate knob, convenient use, fast heating and high durability. 				
37	Laboratory Weighing Boats	pieces	3	1,000.00	3,000.00
	Plastic, 100 mL;				
	at least 100 pcs. per box				
38	Labware Detergent or Laboratory Dishwashing Liquid	btl	2	2,500.00	5,000.00
	<ul style="list-style-type: none"> ☐ 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 				
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
	<ul style="list-style-type: none"> ☐ 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
	<i>Microwavable rectangular plastic containers with cover (750ml);</i>				
46	Potassium dichromate, AR Grade	bottle	4	1,550.00	6,200.00
	<i>500 grams/poly bottle</i>				
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
	<i>resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack</i>				
49	Resealable Plastic Bag, Medium	pack	7	150.00	1,050.00
	<i>resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack;</i>				
50	Reversible Protein Stain Kit for PVDF Membranes	btl	2	19,510.00	39,020.00
	<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				

	<i>mm square Cover Slip</i>				
80	Reagent Bottle 250mL	pcs	5	400.00	2,000.00
	☐ <i>amber colored bottle with HDPE blue screw cap, 250mL</i>				
81	Reagent Bottle 500mL	pcs	5	500.00	2,500.00
	☐ <i>Amber colored bottle with HDPE orange screw cap, 500mL</i>				
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
	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
	☐ <i>8.5 x 8.5 x 6.75 inches</i>				
84	Test Tube, Glass, Graduated, 20mL	pcs	10	100.00	1,000.00
	☐ <i>with Screw Cap</i>				
85	Test Tube, Glass, Graduated, 50mL	pcs	10	105.00	1,050.00
	☐ <i>with Screw Cap</i>				
86	1st BASE MBS MBS-5009 Fish DNA Barcoding, COI (~700bp)	sets	24	3,543.75	85,050.00
	☐ <i>Inclusions</i>				
	◀- <i>Extraction of gDNA</i>				
	◀- <i>PCR amplification and Purification</i>				
	◀- <i>Bidirectional PCR product sequencing</i>				
	◀- <i>Data analysis(BLAST to show the top 10 matches from database)</i>				
87	1st BASE MBS-5007 Custom DNA Barcoding	sets	24	7,087.50	170,100.00
	☐ <i>Custom DNA Barcoding: primer sequence provided by customer.</i>				
	☐ <i>Project for primer set x 24 samples</i>				
	☐ <i>Inclusions:</i>				
	◀- <i>Extraction of gDNA</i>				
	◀- <i>PCR amplification and Purification</i>				
	◀- <i>Bidirectional PCR product sequencing</i>				
	◀- <i>Data analysis (BLAST to show the top 10 matches from database)</i>				
88	Herbarium Mounting Paper	packs	3	1,650.00	4,950.00
	<i>Desired product: Carolina Biological Supply Herbarium Mounting Paper</i>				
	<i>Specifications:</i>				
	<i>Acid-free: Yes</i>				
	<i>Size (LxW) : 11-1/2 x 16-1/2".</i>				
	<i>Thickness: 188 mm</i>				
89	Microcentrifuge	packs	2	900.00	1,800.00
	<i>Desired product: Eppendorf Tube® 5.0 mL (EP-00301)</i>				

	<i>Specifications:</i>				
	<i>Cap Type: Snap Cap</i>				
	<i>Capacity: 5.0 milliliters</i>				
	<i>Length: 54 millimeters</i>				
	<i>Material: Polypropylene (PP)</i>				
	<i>Autoclavable: Yes</i>				
	<i>Temp range: +121 °C to -196 °C.</i>				
	<i>Color: clear</i>				
90	Self-standing centrifuge tubes	packs	2	1,250.00	2,500.00
	<i>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</i>				
	<i>Specifications:</i>				
	<i>Cap type: Screw cap</i>				
	<i>Capacity (Metric): 50 mL</i>				
	<i>Length (Metric): 115 mm</i>				
	<i>Material: Polypropylene (PP)</i>				
	<i>Dimension (D*L): 1.0 x 4.5inch / 25 x 114mm</i>				
91	Temperature-Humidity Data Logger	piece	5	2,000.00	10,000.00
	☑ <i>Portable and hand-held</i>				
	☑ <i>16000 data recording capacity.</i>				
	☑ <i>Adjustable record interval: 10s~24hour</i>				
	☑ <i>Multi-function LCD</i>				
	☑ <i>Internal NTC temperature thermal sensor with optional external sensor</i>				
	☑ <i>Data export in PDF/EXCEL via data management software</i>				
	☑ <i>Selectable °F/°C temperature unit</i>				
	☑ <i>Size: approx. 84 (L) x 44(W) x 20 (H) mm</i>				
	☑ <i>Good quality</i>				
	☑ <i>Durable</i>				
	<i>Rebidding (from GOODS-21-35)</i>				
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
	☐ <i>Lab Coat High-quality White</i>				
	☐ <i>Size- Large; long sleeves</i>				
101	4-Nitrophenol or p-Nitrophenol	vial	1	7,000.00	7,000.00
	☐ <i>Analytical standard, Powder or crystal form, HPLC suitable Vial of 1g</i>				
102	Adipogenesis Differentiation Kit	pack	2	48,800.00	97,600.00
	☐ <i>Molecular Biology grade</i>				
	☐ <i>Suitable for mammalian cell culture</i>				
	☐ <i>Liquid form</i>				
	☐ <i>≤ 50 EU/ml endotoxin level</i>				
	☐ <i>High glucose</i>				
	☐ <i>NO HEPES and phenol red</i>				
	☐ <i>With adipogenesis supplements</i>				
	☐ <i>Kit of at least 100mL basal medium and 10mL supplement</i>				
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
	☐ <i>preferably 7-10X magnification; 35-50 exit pupil</i>				
	☐ <i>waterproof, fog proof, weather resistant</i>				
110	Bovine Calf Serum	btl	1	5,500.00	5,500.00
	☐ <i>Molecular biology grade</i>				
	☐ <i>Suitable for mammalian cell culture</i>				
	☐ <i>Hemoglobin, ≤35 mg/dL; ≤10 EU/mL endotoxin</i>				
	☐ <i>Sterile-filtered</i>				
	☐ <i>Bottle of at least 100mL</i>				
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
	☐ <i>C/EBPα polyclonal antibody, unconjugated</i>				
	☐ <i>Molecular Biology grade</i>				
	☐ <i>Suitable for mammalian cell culture</i>				

	☐For Western Blot, IF, ICC, IHC				
	☐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				
	☐For Western Blot, IF, ICC, IHC				
	☐Reactive to Human, Mouse, Rat				
	☐Host/Isotype: Rabbit / IgG				
	☐Concentration: 0.5 mg/mL				
	☐Vial of at least 100uL/ug				
	☐unconjugated				
116	Cell Counting Dye	btl	1	5,000.00	5,000.00
	"☐Molecular biology grade				
	☐Suitable for all types of cell lines				
	☐Microscopic counting or machine counting compatible				
	☐Colorimetric detection method				
	☐Sufficient for at least 750 counts (10 µl/count)				
	☐Contains at least 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution				
	☐Bottle of 100mL, sterile filtered"				
117	Cesium Fluoride, at least 500g/btl.	btl	1	2,375.00	2,375.00
	☐Anhydrous				
	☐Lab grade/ analytical reagent grade				
	☐Expiration date(3 years from the delivery date)				
	☐Packed in Teflon bottles				
118	Cloth bag, pouch type	pc	75	40.00	3,000.00
	☐9x7 inch, preferably cream color				
119	Cryogenic tube with screw and cap	pack	1	22,550.00	22,550.00

	<ul style="list-style-type: none"> ☐ volume 5 mL, with external thread, self-standing, RNase and DNase free, sterile, 1000 EA per pack 				
120	Dial Caliper	pc	2	3,800.00	7,600.00
	<ul style="list-style-type: none"> ☐ Dial face scales in Decimal Inch (black) and Metric (red). ☐ Hardened stainless steel throughout. ☐ Inside, outside, step and depth measurement. ☐ Raised sliding surface prevents wear and defacement of graduations. ☐ Covered, stainless steel rack. ☐ Ranges available: 6"/ 150mm, 8"/200mm, 12"/300mm ☐ Graduation: .001"/.02mm ☐ 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
	☐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
	☐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 µm				
	☐≥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±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 atleast 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 Flouride 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: ±10%				
	☑Mounting Type: Through Hole				
	☑Resistance Change Type: Linear				
	☑Adjustment Type: Top Adjustment				
	☑Storage temperature: -55°C ~ +125°C				
	☑Temperature Coefficient: ±100ppm/°C				
161	PVDF membrane for Western blotting, 8.6 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 12Holes	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				
	☐ For Western Blot, IF, ICC, IHC				
	☐ Reactive to Human, Mouse, Rat				
	☐ Concentration: 1 mg/mL				
	☐ Host/Isotype: Rabbit / IgG				
	☐ Vial of at least 100ug"				

	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
	<i>Central Bench</i>				
	<i>Specification LxDxH (mm): 2000x700x900;</i>				
	<i>Frame: Steel structure;</i>				
	<i>Cabinet:4 mobile cabinets, use high quality galvanized steel sheet, surface coated with epoxy powder;</i>				
	<i>Table top: made of 12.7mm thickness corrosion-resistant black phenolic resin board, with 25.4mm thickness edge sealing;</i>				
	<i>Hinges: open type high quality hinges, self-closing;</i>				
	<i>Handle: aluminum dark type handle; with 3 pcs sockets and covers, 220V.</i>				
	<i>with on-site installation, movable</i>				
	<i>with 2 gang electrical outlets</i>				
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
	☑20 cu.ft. HD Inverter Side by Side Refrigerator				
	☑No-frost Refrigerator				
	☑Energy efficient inverter compressor				
	☑Quick freeze and quick chill mode				
	☑Weight 90 kg				
	☑Dimensions 76 × 90 × 170 cm				
	☑Digital Temperature Control with LED Display				
	☑Independent Temperature Control				
	☑Child Lock				
	☑Vacation Mode				
	☑Eco-LED Lights				
	☑Spill – Proof Tempered Glass Shelves				
	☑Heavy Duty Handle				
	☑Textured Body (Rust and Stain Resistant)				
	☑3 Twist Ice Cube Trays and Ice Cube				

	Container				
	▣Adjustable Leveling Feet				
	▣Input Power: 170W				
186	Liquid Nitrogen Self- Pressurized Tank (60L)	unit	1	542,700.00	542,700.00
	▣Self-pressurizing tank				
	▣60L capacity				
	▣double wall, stainless steel tank used				
	▣suitable for the programmable freezer (IMV MicroDigit Cool)				
	▣includes hose and pressure system for manual loading of liquid nitrogen from larger storage tanks				
187	Liquid Nitrogen Tanks and Peripherals	set	1	280,000.00	280,000.00
	▣Set of Liquid Nitrogen Tanks:				
	◀1 - Spectrum 35				
	◀2 - Spectrum 20				
	◀1 - Spectrum 3				
	◀1 - ET-3				
	▣Peripherals				
	◀Two-shelf canisters				
	◀Daisy goblets various colors (65mm)				
	◀Visotubes various colors				
	◀Flag for canister lifter				
	◀Identifier without flag				
	◀Liquid nitrogen measuring stick (1000mm)				
	◀Protective glasses				
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/cm2; (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 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				
	☑Main Body Material: Adopting cold-roll steel plate with corrosion-proof coating				
	☑Work Zone Material: 304 stainless steel				
	☑Base Stand Material: Adopting cold-roll steel plate with corrosion-proof coating				
	☑Caster: Reverse Wheel with brake				
	☑Electrical : 10~240V/50~60Hz				
	☑Standard Accessory: Light, UV, Base Stand				
	☑Net Weight: 160 kg Package Size 1580*750*1950 mm				
190	pH / Temperature Laboratory Bench Meter	unit	1	29,000.00	29,000.00
	☑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 Calibration7				
	◀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.				
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				
	◻Lighweight				
	◻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

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

2. The *Visayas State University – Main Campus* 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 *28 October – 17 November 2021 until 8:30 AM* 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 – Main Campus* will hold a Pre-Bid Conference on *November 4, 2021; 9:00 AM at the Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or through video conferencing or webcasting *via Google Meet*, which shall be open to prospective bidders.

Bidders are advised to contact the BAC Secretariat before the scheduled Pre-Bid Conference for the Google Meet link.

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 *17 November 2021 until 8:30 AM*. Late bids shall not be accepted.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. Bid opening shall be on *17 November 2021; 9:00 AM* at the *Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or via *Google Meet*. 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 Google Meet link.

10. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through couriers. A proof (e.g. courier receipt, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
11. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Ms. Jessamine C. Ecleo (BAC Secretariat)
Office of the Head for Procurement,
VSU-Main, Visca, Baybay City, Leyte
Mobile: 053 565 0600 local 1093 or 0998 555 0106
Email: jessamine.ecleo@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: 053 565 0600 local 1004 or 0977 7186594
Email: tmdargantes@vsu.edu.ph

13. You may visit the following websites:

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

October 27, 2021

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 *GOODS-21-52*.

The Procurement Project (referred to herein as “Project”) is composed of *192 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 2021 in the amount of *Four Million One Hundred Forty-Six Thousand Three Hundred Thirty-Three Pesos (PhP 4,146,333.00)*.

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

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:

Bidders 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 (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 *March 17, 2022*. 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 and/or Chemicals and/or Supplies</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 <i>DDP 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 Nine Hundred Twenty-Six and 66/100 Pesos (PhP 82,926.66) or 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 Seven Thousand Three Hundred Sixteen and 65/100 Pesos (PhP 207,316.65) or five percent (5%) of ABC</i> if bid security is in Surety Bond.
19.3	<i>See Section I. Invitation to Bid (Item 1) for the complete list of items and their corresponding total Approved Budget for the Contract (ABC).</i>
20.2	In case the PhilGEPS Platinum Certificate of Registration is not available during bid submission, it shall be submitted as a post-qualification requirement, in accordance with Section 34.2 of the 2016 Revised IRR of R.A. 9184.
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 terms applicable to this Contract are delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p style="text-align: center;"><i>Ms. Alicia M. Flores</i> <i>Head, Supply and Property Management Office,</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082 / 0917 6341 430</i></p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
	<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 is 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

	<p>Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</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 Main 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 No.	Unit	Qty	Description	Delivered, Weeks/Months
			Laboratory Chemicals/Supplies	
1	pack	1	1000 µL pipette tips (Blue)	
			☐1000 µL pipette tips (Blue) at least 1000 pcs. per pack	
2	pack	1	1X Dulbecco's Modified Eagle Medium (DMEM)	
			<i>For cell culture: mammalian suitable</i>	
			<i>Components: 4.5g/L D-Glucose, L-glutamine, 110mg/L Sodium pyruvate</i>	
			<i>Pack of 10 bottles, 500mL per bottle</i>	
			<i>Sterile filtered</i>	
3	pack	1	200 µL pipette tips (Yellow)	
			<i>200 µL pipette tips (Yellow) at least 1000 pcs. per pack</i>	
4	boxes	3	3 layer Non-woven surgical face mask, at least 50 pcs. per box	
			<i>3 layer Non-woven surgical face mask</i>	
5	vial	1	3T3-L1 Cell Line	
			<i>Organism: Mus musculus, mouse</i>	
			<i>Cell Type: fibroblast</i>	
			<i>Tissue: Embryo</i>	
			<i>Age: embryo</i>	
			<i>Morphology: fibroblast</i>	
			<i>Growth properties: Adherent</i>	
			<i>Validated by the American Type Culture Collection or equivalent</i>	
6	kit	4	4CN (4-chloro-1-naphthol) Colorimetric Detection Kit	
			<i>Optimum sensitivity 4CN substrate</i>	
			<i>Colorimetric detection of HRP conjugated antibodies</i>	
			<i>Suitable for western blotting using HRP conjugated antibodies</i>	
			<i>Sufficient for approximately 50 standard mini blots</i>	
7	pack	4	5000 ul pipette tips (Neutral), at least 1000 pcs. per pack	
			☐5000 ul pipette tips (Neutral)	
8	pack	1	Activated Acid-washed Charcoal	
			☐Chemical must be plant tissue culture tested for at least 20 years	

All Items Should Be Delivered Within **90 Calendar Days** From Receipt Of Notice To Proceed And Purchase Order

			☐ISO complaint
			☐ACS REAG
			☐PH EUR
			☐meets USP Standards
			☐Bioreagent suitable for cell culture
			☐2.5kg per pack
9	liters	2	Alcohol, Ethyl, 95% (Tech)
10	kgs	8	Ammonium Acetate, AR
11	btl	1	Ascorbic acid
			<i>Analytical reagent grade, crystalline powder, 500 g/bottle</i>
12	pc	25	Beaker, Glass, 150 mL
			☐Low Form Beaker
			☐Borosilicate Glass
			☐Transparent Beaker
			☐Thickened With Spout
13	pack	1	Blot Filter paper, at least 8.6 x 13.5 cm
			☐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	kgs	6	Boric Acid, Analytical Reagent
15	box	1	Brightvit Kit with Slides
			<i>200 slides for 200 test</i>
			<i>VIT-BV- BrightVit kit wth slides</i>
16	bottle	1	Cadmium Nitrate Standard for the AAS, 1000ppm, 500ml per bottle
17	pack	1	Cell Culture Plates, 12-wells
			<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	box	1	Counting Chambers for SCA
			<i>Disposable counting chambers to analyse motility and concentration of semen.</i>
			<i>20 micron, 6 chambers.</i>
			<i>Box of 25 slides/150 tests.</i>

19	boxes	2	Delicate task wipers
			280sheets/box
			4.4 x 8.4" Kimwipes 1-Ply
			for wiping surfaces, parts, instruments, and lenses
20	btl	1	Ethanol Absolute
			2.5 Liters/ bottle
21	canister	6	Ethyl Alcohol (95%)
			95%
			Container size: plastic waterjug (20L)
22	box	2	Filter paper, #1
			qualitative analysis
			125 mm diameter
			at least 100 pcs. per box
23	boxes	14	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			Pore size:2.5um
			at least 100 pcs. per box
24	box	36	filter paper, grade 393, particle retention :1-2um
			Grade: 393, Diam: 12.5 cm, Quantitative, ashless, pptn: very fine crystalline, particle retention: 1-2 um
			at least 100 pcs. per box
25	box	4	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
27	box	1	GoldCyto Counting Chamber
			GC-SCD-20 samples
			Goldcyto counting chambers 20 micron- 6 chamber slides
28	box	1	GoldCyto Sperm Kit
			Microptic
			20 samples per box
29	packs	2	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs./pack
			☐Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm
30	packs	1	Hairnet
			disposable, 12 pcs/pack;

31	btls	12	Hydrochloric acid, HCl
			<i>Analytical reagent grade, concentrated, 2.5L/bottle;</i>
32	boxes	20	Ice Box Cooler, 110 Liters
			<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	btl	2	Immersion oil for microscopic analysis, Type A, 30mL
			<i>Type A30 ml per bottle</i>
34	pcs	2	Lab Gown Long Sleeves L
			☐ <i>Lab Coat High-quality White</i>
			☐ <i>Size- Large; long sleeves</i>
35	pcs	4	Lab Gown Long Sleeves M
			☐ <i>Lab Coat High-quality White</i>
			☐ <i>Long Sleeves</i>
			☐ <i>Medium size</i>
36	pc	2	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM
			☐ <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 0-1600 rpm with two separate knob, convenient use, fast heating and high durability.</i>
37	pieces	3	Laboratory Weighing Boats
			<i>Plastic, 100 mL;</i>
			at least 100 pcs. per box
38	btl	2	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>

			☐Contains anionic and cationic surfactants
			☐5 liters per bottle
39	set	1	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
40	bottle	2	Malachite green oxalate
			reagent and microscopy grade
			25 grams/bottle
41	rolls	10	Masking tape, autoclavable, for laboratory use
			1" wide x 55m length;
42	pack	2	Microcentrifuge Tubes (2.0mL Capacity)
			☐2.0mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable
43	btl	4	Nutrient Agar
			☐500g per bottle;
44	packs	1	Pipette Tips (20 ul)
			☐20 ul capacity
			☐autoclavable
			☐100 pcs per pack
45	pcs	12	plastic containers
			Microwavable rectangular plastic containers with cover (750ml);
46	bottle	4	Potassium dichromate, AR Grade
			500 grams/poly bottle
47	btl	4	Potato Dextrose Agar (PDA), 500 grams per bottle
48	pack	5	Resealable Plastic Bag, Large
			resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack
49	pack	7	Resealable Plastic Bag, Medium
			resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack;
50	btl	2	Reversible Protein Stain Kit for PVDF

			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	pack	1	ROSS reference electrode filling solution (3M KCl)
			☐One pack is composed of 5 bottles
			☐(60 ml. capacity)
52	btls	14	Sodium Hydroxide, AR 500G
			☐500 g/bottle, AR, Pellets;
53	set	2	Spectrophotometer Cuvette
			<i>quartz cuvette, 10mm, standard cell with lid, 45x12.5x12.5 (outside dim, HxWxD), vol. (3.5 mL), path length (10);</i>
54	pcs	7	Stainless Steel Laboratory Microspatula
55	pcs	110	Stainless Steel Trays, for Laboratory Use
			<i>(L 36 cm x W 27 cm); (Depth 6.5 cm);</i>
56	btls	170	Sterile Water for Injection, 100ml per bottle
			<i>Other Specification;; Parental Sterile Non-Pyrogenic Diluent;</i>
57	pc	3	Stirring Rod
			☐Standard Size
			☐Good Quality
			☐with rubber policeman
58	btl	1	Storage Solution for ROSS electrode
			☐Orion application solution
			☐Orion Cat No. 810001.
			☐One bottle is 475mL.
59	btl	12	Sulfuric Acid
			☐Analytical Grade (98%)
			☐2.5 Liters
			☐specific gravity 1.84
60	boxes	1	Test Tubes, 13 x 100mm, 250pcs/box
			<i>borosilicate glass, heat resistant, rimless;</i>
61	boxes	1	Test Tubes, 16 x 100mm, 100 pcs/ box
			☐borosilicate glass, heat resistant, rimless;
62	pack	2	Weighing Paper Sheet, Non-Absorbing
			<i>High-Gloss, Pack of 500</i>
63	pc	1	Vortex Mixer, 220V QL-901, 2800RPM
64	pcs	3	1000 ml Type 1, class A borosilicate glass Beaker
65	pcs	5	250 ml Type 1, class A borosilicate glass

			Beaker
66	pcs	3	500 ml Type 1, class A borosilicate glass Beaker
67	set	1	Boar Semen Evaluation for SCA Set
			☐(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	packs	10	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
69	packs	15	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
70	pcs	2	Digital Thermostatic Water Bath
			☐Digital Thermostatic Water Bath with 1 Chamber, 3L Capacity, RT to 100°C, 300W Heating Power, 0.1°C
71	pcs	4	Erlenmeyer Flask, Glass, 500mL
			☐500mL capacity, borosilicate glass
72	box	10	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
73	pcs	2	Graduated Cylinder, Glass, 1000mL

			☐Material: Borosilicate Glass
			☐Good Quality
74	pcs	5	Graduated Cylinder, Glass, 250mL
			☐Material: Borosilicate Glass
			☐Good Quality
75	pcs	2	Laboratory Glass Dyeing Cylinder Rack with Cover (Circular)
			☐with cover
			☐5 circular
76	packs	4	Microcentrifuge Tubes (1.5mL Capacity)
			☐1.5mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable
77	packs	5	Micropipette Tip, 1000 uL
			☐capacity, 1000 uL
			☐Standard tip, graduated
			☐Autoclavable
			☐Pack of 1000 tips
78	packs	4	Micropipette Tip, 200 uL
			☐capacity, 200 uL
			☐Short tip, graduated,
			☐Autoclavable
			☐Pack of 1000 tips
79	pcs	10	Microscope Slides and cover slips
			☐Pre-Cleaned Blank slides with 100 22 x 22 mm square Cover Slip
80	pcs	5	Reagent Bottle 250mL
			☐amber colored bottle with HDPE blue screw cap, 250mL
81	pcs	5	Reagent Bottle 500mL
			☐Amber colored bottle with HDPE orange screw cap, 500mL
82	packs	3	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk
	pcs	50	100 ml Type 1, class A borosilicate glass test tube
83	box	15	Styrofoam Box Z1
			☐8.5 x 8.5 x 6.75 inches
84	pcs	10	Test Tube, Glass, Graduated, 20mL
			☐with Screw Cap
85	pcs	10	Test Tube, Glass, Graduated, 50mL
			☐with Screw Cap

86	sets	24	1st BASE MBS MBS-5009 Fish DNA Barcoding, COI (~700bp)
			☐ <i>Inclusions</i>
			◀ <i>-Extraction of gDNA</i>
			◀ <i>-PCR amplification and Purification</i>
			◀ <i>-Bidirectional PCR product sequencing</i>
			◀ <i>-Data analysis (BLAST to show the top 10 matches from database)</i>
87	sets	24	1st BASE MBS-5007 Custom DNA Barcoding
			☐ <i>Custom DNA Barcoding: primer sequence provided by customer.</i>
			☐ <i>Project for primer set x 24 samples</i>
			☐ <i>Inclusions:</i>
			◀ <i>-Extraction of gDNA</i>
			◀ <i>-PCR amplification and Purification</i>
			◀ <i>-Bidirectional PCR product sequencing</i>
			◀ <i>-Data analysis (BLAST to show the top 10 matches from database)</i>
88	packs	3	Herbarium Mounting Paper
			<i>Desired product: Carolina Biological Supply Herbarium Mounting Paper</i>
			<i>Specifications:</i>
			<i>Acid-free: Yes</i>
			<i>Size (LxW) : 11-1/2 x 16-1/2".</i>
			<i>Thickness: 188 mm</i>
89	packs	2	Microcentrifuge
			<i>Desired product: Eppendorf Tube® 5.0 mL (EP-00301)</i>
			<i>Specifications:</i>
			<i>Cap Type: Snap Cap</i>
			<i>Capacity: 5.0 milliliters</i>
			<i>Length: 54 millimeters</i>
			<i>Material: Polypropylene (PP)</i>
			<i>Autoclavable: Yes</i>
			<i>Temp range: +121 °C to -196 °C.</i>
			<i>Color: clear</i>
90	packs	2	Self-standing centrifuge tubes
			<i>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</i>
			<i>Specifications:</i>
			<i>Cap type: Screw cap</i>
			<i>Capacity (Metric): 50 mL</i>

			Length (Metric): 115 mm
			Material: Polypropylene (PP)
			Dimension (D*L): 1.0 x 4.5inch / 25 x 114mm
91	piece	5	Temperature-Humidity Data Logger
			☐ <i>Portable and hand-held</i>
			☐ <i>16000 data recording capacity.</i>
			☐ <i>Adjustable record interval: 10s~24hour</i>
			☐ <i>Multi-function LCD</i>
			☐ <i>Internal NTC temperature thermal sensor with optional external sensor</i>
			☐ <i>Data export in PDF/EXCEL via data management software</i>
			☐ <i>Selectable °F/°C temperature unit</i>
			☐ <i>Size: approx. 84 (L) x 44(W) x 20 (H) mm</i>
			☐ <i>Good quality</i>
			☐ <i>Durable</i>
			Rebidding (from GOODS-21-35)
92	pc	2	1.0 um Polystyrene microspheres (5 ml)
93	pc	2	1.5 um Polystyrene microspheres (5 ml)
94	pcs	5	100 ml Type 1, class A borosilicate glass test tube
95	pc	2	2.5 um Polystyrene microspheres (5 ml)
96	boxes	30	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
97	pc	1	Automatic Oil Press Extractor Machine (2L)
98	packs	3	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs per pack
99	btl	1	Green 0.1 um Fluorescent Polystyrene microspheres
100	pcs	5	Lab Gown Long Sleeves L
			☐ <i>Lab Coat High-quality White</i>
			☐ <i>Size- Large; long sleeves</i>
101	vial	1	4-Nitrophenol or p-Nitrophenol
			☐ <i>Analytical standard, Powder or crystal form, HPLC suitable Vial of 1g</i>
102	pack	2	Adipogenesis Differentiation Kit
			☐ <i>Molecular Biology grade</i>
			☐ <i>Suitable for mammalian cell culture</i>
			☐ <i>Liquid form</i>
			☐ <i>≤ 50 EU/ml endotoxin level</i>
			☐ <i>High glucose</i>

			☐NO HEPES and phenol red
			☐With adipogenesis supplements
			☐Kit of at least 100mL basal medium and 10mL supplement
103	kilos	3	Agar Agar
104	gallons	16	Alcohol, Denatured
105	gallon	1	Alcohol, Ethyl, 75% solution, 1 gallon
106	liters	20	Alcohol, Ethyl, 95% (Tech)
107	pc	1	Aluminum Burette Clip Titration Clamp
108	pc	1	Analytical Balance (500/0.001 g)
			<i>Lab Analytical Balance Scale 0.001g</i>
109	pc	1	Binocular
			☐preferably 7-10X magnification; 35-50 exit pupil
			☐waterproof, fog proof, weather resistant
110	btl	1	Bovine Calf Serum
			☐Molecular biology grade
			☐Suitable for mammalian cell culture
			☐Hemoglobin, ≤35 mg/dL; ≤10 EU/mL endotoxin
			☐Sterile-filtered
			☐Bottle of at least 100mL
111	btl	1	Buffer solution, pH 9, 1000 ml.
112	Vial	1	C/EBPα polyclonal antibody, unconjugated
			☐C/EBPα polyclonal antibody, unconjugated
			☐Molecular Biology grade
			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Reactive to Human, Mouse, Rat
			☐Host/Isotype: Rabbit / IgG
			☐Concentration: 1 mg/mL
			☐Vial of 100ug
113	btl	1	Calcium Bromide, at least 100 grams per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
114	btl	1	Calcium Phosphate
			☐Analytical Grade
			☐500 G bottle
115	Vial	1	Caspase 3 polyclonal antibody, unconjugated

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

			<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	set	1	Digital Weighing Scale, 50kg
			☐ 1g accuracy
			☐ maximum of 50 kg
			☐ materials: metal
122	btl	3	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl
123	pc	2	Dry Heat Sterilizer, at least 28L
124	btl	3	Ethanol, Technical Grade
			☐ 95% solution, 20L
125	btl	4	Ethyl Acetate
			☐ Analytical Reagent Grade, 2.5L per bottle
126	btl	4	Fetal/Foetal Bovine Serum (FBS)
			☐ 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	box	5	Filter Paper
			☐ Filter Paper No. 1
			☐ Qualitative Circles 125mm (12.5cm)
			☐ Qty/box: 100 pieces per box
			☐ Porosity: Medium
			☐ Flow Rate: Medium
128	boxes	10	Filter Paper, 12.5 cm. Ashless 2.5um pore size, at least 100 pcs per box
129	pc	2	Firing Cotton
			☐ 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	pc	2	Firing Wire
			☐ 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	box	10	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
132	box	25	Gloves, Nitrile, Small
			☐box or 100-50 pairs, small
			☐natural rubber latex-free, powderless
			☐micro grip
133	Vial	2	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated, in liquid form
			☐Molecular Biology grade
			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Host/Isotype: Goat / IgG
			☐Concentration: 1mg/mL
134	pc	1	Graduated Pitcher, at least 2 liter capacity, Plastic, for laboratory use
135	pc	2	High Precision Magnetic Pocket Transit Geological Compass Scale
			☐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	pc	1	Induction Motor
			☐Voltages - 220 to 240v,60hz,.37kw, 0.5HP
137	Vial	1	Insulin, human recombinant
			☐cell culture mammalian: suitable

			☐sterile filtered of at least 0.2 μm
			☐ ≥ 27.5 units/mg potency
			☐dry powder, 100mg
138	packs	4	Laboratory Weighing Boats, 100pcs/pack
			☐ 3.5 x 7.25 x 3.2"; 2.49lbs, 100ml
139	boxes	6	Latex Disposable Gloves Powder Free (Medium), 100 pcs or 50 pairs per box
140	btl	5	LB Broth, 500g per bottle
141	btl	1	Lemongrass Essential Oil
			☐Lemongrass Oil (<i>Cymbopogon citratus</i> , 30 ml)
142	btl	1	Lemongrass essential Oil, 15mL
			☐Lemongrass Oil (<i>Cymbopogon flexuosus</i> , 15 ml)
143	btl	1	Lithium Bromide, 500g/bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
144	btl	1	Lithium Iodide, 500g/bottle
			☐Anhydrous
			☐Lab grade/Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
145	btl	1	Magnesium Nitrate, 500g/bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
146	btl	1	Malt Yeast Extract Agar
			☐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	btl	1	N-octanol
			☐Technical grade
			☐Purity: 99%
			☐5 liters
148	pc	2	Open Reel Measuring Tape
			☐Fiberglass
			☐Stainless steel frame

			<ul style="list-style-type: none"> ☐Specification: 30M/50M/100M (98ft/164ft/328ft)
			<ul style="list-style-type: none"> ☐Material: Stainless steel
			<ul style="list-style-type: none"> ☐ABS Unit: Metric/Imperial
			<ul style="list-style-type: none"> ☐Dimension: 30M: approx. 25x17x2cm 50M: approx. 31x18x2.5cm 100M: approx. 31x18x2.5cm
			<ul style="list-style-type: none"> ☐Rugged, Impact-resistant
			<ul style="list-style-type: none"> ☐Plating ruler tape/nylon ruler tape, with good clarity and wear-resistant.
			<ul style="list-style-type: none"> ☐Features Cone Tip Stake for Accurate Measurements and Stability.
			<ul style="list-style-type: none"> ☐Comes with a convenient carry handle.
			<ul style="list-style-type: none"> ☐Easy to read Metric and Imperial graduation
149	pcs	5	Ordinary Vernier Caliper
			<ul style="list-style-type: none"> ☐Plastic material
			<ul style="list-style-type: none"> ☐Up to 150mm measuring range
			<ul style="list-style-type: none"> ☐accuracy atleast 1mm
			<ul style="list-style-type: none"> ☐double scale measurement
			<ul style="list-style-type: none"> ☐no battery
			<ul style="list-style-type: none"> ☐Ultra precision and effortless operation.
150	btl	2	Paraformaldehyde
			<ul style="list-style-type: none"> ☐Reagent or analytical grade
			<ul style="list-style-type: none"> ☐For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies
			<ul style="list-style-type: none"> ☐Crystalline form
			<ul style="list-style-type: none"> ☐Bottle of 25g
151	Vial	1	Perilipin 1 Polyclonal Antibody, unconjugated, in liquid form
			<ul style="list-style-type: none"> ☐Molecular Biology grade
			<ul style="list-style-type: none"> ☐Suitable for mammalian cell culture
			<ul style="list-style-type: none"> ☐For Western Blot, IF, ICC, IHC
			<ul style="list-style-type: none"> ☐Host/Isotype: Rabbit / IgG
			<ul style="list-style-type: none"> ☐Reactive to mouse, rat
			<ul style="list-style-type: none"> ☐Concentration: 1 mg/mL
152	pc	100	Petri dish
			<ul style="list-style-type: none"> ☐comprise a lid and base
			<ul style="list-style-type: none"> ☐high clarity glass
			<ul style="list-style-type: none"> ☐borosilicate glass
			<ul style="list-style-type: none"> ☐size:
			<ul style="list-style-type: none"> ◀Cover int. dia mm : 95
			<ul style="list-style-type: none"> ◀Base ext. dia mm: 94
			<ul style="list-style-type: none"> ◀Size: 100 x 20
153	btl	1	Phenolphthalein Indicator Powder

			☐AR grade, 125 grams
154	Vial	1	PI-3 Kinase p110α antibody, unconjugated, in liquid form
			☐Molecular Biology grade
			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Reactive to Human, Mouse, Rat
			☐Host/Isotype: Rabbit / IgG
155	btls	1	Picric Acid, 1Li./Bottle
			☐Saturated, Aqueous solution
			☐Physical form: Liquid
			☐Color: Yellow
			☐Concentration or Composition Notes:
			☐Approximately 1.2% (w/v)
			☐Molecular Weight (g/mol): 229.104
156	packs	5	Pipette Tips (20 ul)
			☐20 ul capacity
			☐autoclavable
			☐100 pcs per pack
157	pack	1	Plastic cup with cover
			☐30 ml capacity
			☐same size as fast food gravy container
			☐round shape
			☐transparent
			☐at least 60pcs cup in one pack
158	btl	1	Potassium Chromate 500g per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
159	btl	1	Potassium Flouride 500g per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
160	set	1	Potentiometer
			☐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: ±100ppm/°C
161	pack	1	PVDF membrane for Western blotting, 8.6 x 13.5 cm
			☐PVDF-Filter paper sandwich
			☐Detection methods: Chemiluminescence, Colorimetric
			☐Pore Size: 0.20um; 150-160 ug/cm2 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	pc	10	Reagent Bottle
			☐With Stopper/Screw Cap
			☐Material: Glass/Borosilicate Glass
			☐Color: Clear/Transparent Flask
			☐Capacity: 2000mL
			☐Graduation: 1800mL
163	packs	2	Resealable Plastic Bag, Large
			☐resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack
164	packs	3	Resealable Plastic Bag, Medium
			☐resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack
165	packs	3	Resealable Plastic Bag, Small
			☐resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack
166	box	1	Scalpel Blade
			☐Stainless steel☐100 blades/box
167	btls	2	Sodium Hydroxide, Technical Grade, 1KG, Pellets
			☐Technical grade, pellets, 1 kg
168	btl	1	Sodium Iodide at least 500g per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
169	btl	1	Sodium Nitrate, at least 500g per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles

170	pc	1	Stainless Steel Crucible Tongs
			☐25 cm
			☐Stainless Steel
171	piece	1	Standard Berlese Funnel (Tullgren Funnel)
			☐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	pc	1	Standard Size Marble Base Titration Stand
			☐Marble base with iron/aluminum stand for buret
173	packs	9	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk
174	btl	1	Strontium Nitrate, at least 500 grams per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottle
175	piece	1	Temperature-Humidity Data Logger
			☐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	pcs	3	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
			☐Stainless steel

177	pc	3	Test Tube Rack, 20 mm x 24 tubes
			☐Stainless Steel, 20 mm diameter holes, capacity 24 test tubes
178	pcs	4	Test Tube Racks, 12MM x 12Holes
			☐Stainless Steel Holes Test Tube Rack
179	pc	2	Weighing Scale, Hanging, Analog
			☐Readability: 0.1g to 0.0000001g
			☐Accuracy: ±1%
			☐Weight capacity: 0g up to 3000g
180	packs	2	Woven Filters, Nylon Mesh, 10pcs/pack
			☐Mesh Opening: 5 um
			☐Water affinity: hydrophilic
			☐High Strength and Adsorption
			☐30 X 30 cm sheet
			☐Thickness: 100 um
181	btl	1	Zinc Bromide, at least 100g per bottle
			☐Anhydrous
			☐Lab grade/Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
182	Vial	1	β-actin polyclonal antibody, unconjugated
			"☐Molecular Biology grade
			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Reactive to Human, Mouse, Rat
			☐Concentration: 1 mg/mL
			☐Host/Isotype: Rabbit / IgG
			☐Vial of at least 100ug"
			Laboratory Equipment
183	set	1	Central Bench, Specification L*D*H(mm); 2000*700*900, Frame: Steel Structure; Cabinet: use high quality
			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	unit	1	Tensile/Bending Compression Testing Machine
			<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	unit	1	20.6 cu.ft. Heavy Duty Side by Side Inverter Refrigerator
			☐20 cu.ft. HD Inverter Side by Side Refrigerator
			☐No-frost Refrigerator
			☐Energy efficient inverter compressor
			☐Quick freeze and quick chill mode
			☐Weight 90 kg
			☐Dimensions 76 × 90 × 170 cm
			☐Digital Temperature Control with LED Display
			☐Independent Temperature Control
			☐Child Lock
			☐Vacation Mode
			☐Eco-LED Lights
			☐Spill – Proof Tempered Glass Shelves
			☐Heavy Duty Handle
			☐Textured Body (Rust and Stain Resistant)
			☐3 Twist Ice Cube Trays and Ice Cube Container
			☐Adjustable Leveling Feet
			☐Input Power: 170W
186	unit	1	Liquid Nitrogen Self- Pressurized Tank (60L)
			☐Self-pressurizing tank
			☐60L capacity
			☐double wall, stainless steel tank used
			☐suitable for the programmable freezer (IMV MicroDigit Cool)
			☐includes hose and pressure system for manual loading of liquid nitrogen from larger storage tanks
187	set	1	Liquid Nitrogen Tanks and Peripherals
			☐Set of Liquid Nitrogen Tanks:
			◀1 - Spectrum 35
			◀2 - Spectrum 20
			◀1 - Spectrum 3

			◀1 - ET-3
			☐Peripherals
			◀Two-shelf canisters
			◀Daisy goblets various colors (65mm)
			◀Visotubes various colors
			◀Flag for canister lifter
			◀Identifier without flag
			◀Liquid nitrogen measuring stick (1000mm)
			◀Protective glasses
188	unit	1	Professional Water Purifier - RO and DI Output
			☐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	unit	1	Vertical Laminar Flow Hood BBS-SDC with Stand
			☐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

			<ul style="list-style-type: none"> ☐UV Lamp:30W*1
			<ul style="list-style-type: none"> ☐Power Consumption: 480W
			<ul style="list-style-type: none"> ☐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	unit	1	<p>pH / Temperature Laboratory Bench Meter</p> <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. ☐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 ◀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: <ul style="list-style-type: none"> ◀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

			◀ <i>Typical EMC pH: +/- 0.02 pH</i>
			◀ <i>Deviation Temp.: +/- 0.4oC / +/- 0.8oF</i>
			◀ <i>pH Automatic Calibration: 1 or 2 point calibration, with 7 memorised buffers</i>
			◀ <i>Offset Calibration: +/- 1 pH</i>
			◀ <i>Slope Calibration: from 80 to 108%</i>
			◀ <i>Temperature Compensation: automatic, from -20.0 to +120oC / -4.0 TO +248oF or manual, without temperature probe</i>
			◀ <i>pH electrode: MA 917B/1 (included) double junction refillable glass pH electrode</i>
			◀ <i>Temperature probe: MA 831R (included) Environment: 0 to 50oC / 32 to 120.0oF; max. RH 95% Input impedance: 10¹² ohm</i>
			◀ <i>Power supply: 12 VDC power adaptor (supplied)</i>
			◀ <i>Dimensions: 230W x 160D x 95H mm. Weight: 0.9 kg.</i>
191	unit	1	Portable Oxygen Monitor
			▣ <i>Personal single gas monitor designed for protection in workspaces where liquid nitrogen is used.</i>
			▣ <i>Portable/pocket size</i>
			▣ <i>Lighweight</i>
			▣ <i>IP-67 waterproof rating</i>
			▣ <i>Audible/visual/vibration alarms</i>
			▣ <i>Automatic backlight</i>
192	unit	1	DEEP FREEZER
			▣ <i>13 cubic feet Chest Freezer</i>
			▣ <i>Wire basket shelving material</i>
			▣ <i>216 Watts</i>
			▣ <i>No Frost</i>
			▣ <i>with inverter</i>
			▣ <i>Charcoal deodorizer, 220V or auto voltage</i>


Section VII. Technical Specifications

Technical Specifications

Item No.	Unit	Qty	Description	STATEMENT OF COMPLIANCE
			Laboratory Chemicals/Supplies	<i>[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</i>
1	pack	1	1000 µL pipette tips (Blue)	
			☐1000 µL pipette tips (Blue) at least 1000 pcs. per pack	
2	pack	1	1X Dulbecco's Modified Eagle Medium (DMEM)	
			<i>For cell culture: mammalian suitable</i>	
			<i>Components: 4.5g/L D-Glucose, L-glutamine, 110mg/L Sodium pyruvate</i>	
			<i>Pack of 10 bottles, 500mL per bottle</i>	
			<i>Sterile filtered</i>	
3	pack	1	200 µL pipette tips (Yellow)	
			<i>200 µL pipette tips (Yellow) at least 1000 pcs. per pack</i>	
4	boxes	3	3 layer Non-woven surgical face mask, at least 50 pcs. per box	
			<i>3 layer Non-woven surgical face mask</i>	
5	vial	1	3T3-L1 Cell Line	
			<i>Organism: Mus musculus, mouse</i>	
			<i>Cell Type: fibroblast</i>	
			<i>Tissue: Embryo</i>	
			<i>Age: embryo</i>	
			<i>Morphology: fibroblast</i>	
			<i>Growth properties: Adherent</i>	
			<i>Validated by the American Type Culture Collection or equivalent</i>	
6	kit	4	4CN (4-chloro-1-naphthol) Colorimetric Detection Kit	
			<i>Optimum sensitivity 4CN substrate</i>	
			<i>Colorimetric detection of HRP conjugated antibodies</i>	
			<i>Suitable for western blotting using HRP conjugated antibodies</i>	
			<i>Sufficient for approximately 50 standard mini blots</i>	
7	pack	4	5000 ul pipette tips (Neutral), at least 1000 pcs. per pack	
			☐5000 ul pipette tips (Neutral)	
8	pack	1	Activated Acid-washed Charcoal	
			☐Chemical must be plant tissue culture tested for at least 20 years	
			☐/ISO complaint	
			☐ACS REAG	

			☐PH EUR	issuances.]
			☐meets USP Standards	
			☐Bioreagent suitable for cell culture	
			☐2.5kg per pack	
9	liters	2	Alcohol, Ethyl, 95% (Tech)	
10	kgs	8	Ammonium Acetate, AR	
11	btl	1	Ascorbic acid	
			<i>Analytical reagent grade, crystalline powder, 500 g/bottle</i>	
12	pc	25	Beaker, Glass, 150 mL	
			☐Low Form Beaker	
			☐Borosilicate Glass	
			☐Transparent Beaker	
			☐Thickened With Spout	
13	pack	1	Blot Filter paper, at least 8.6 x 13.5 cm	
			☐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	kgs	6	Boric Acid, Analytical Reagent	
15	box	1	Brightvit Kit with Slides	
			<i>200 slides for 200 test</i>	
			<i>VIT-BV- BrightVit kit wth slides</i>	
16	bottle	1	Cadmium Nitrate Standard for the AAS, 1000ppm, 500ml per bottle	
17	pack	1	Cell Culture Plates, 12-wells	
			<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	box	1	Counting Chambers for SCA	
			<i>Disposable counting chambers to analyse motility and concentration of semen.</i>	
			<i>20 micron, 6 chambers.</i>	
			<i>Box of 25 slides/150 tests.</i>	
19	boxes	2	Delicate task wipers	
			<i>280sheets/box</i>	

			4.4 x 8.4" Kimwipes 1-Ply
			for wiping surfaces, parts, instruments, and lenses
20	btl	1	Ethanol Absolute
			2.5 Liters/ bottle
21	canister	6	Ethyl Alcohol (95%)
			95%
			Container size: plastic waterjug (20L)
22	box	2	Filter paper, #1
			qualitative analysis
			125 mm diameter
			at least 100 pcs. per box
23	boxes	14	Filter Paper, 12.5 cm. Ashless #42 or equivalent
			Pore size:2.5um
			at least 100 pcs. per box
24	box	36	filter paper, grade 393, particle retention :1-2um
			Grade: 393, Diam: 12.5 cm, Quantitative, ashless, pptn: very fine crystalline, particle retention: 1-2 um
			at least 100 pcs. per box
25	box	4	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
27	box	1	GoldCyto Counting Chamber
			GC-SCD-20 samples
			Goldcyto counting chambers 20 micron- 6 chamber slides
28	box	1	GoldCyto Sperm Kit
			Microptic
			20 samples per box
29	packs	2	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm, at least 100 pcs./pack
			☐Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm
30	packs	1	Hairnet
			disposable, 12 pcs/pack;
31	btls	12	Hydrochloric acid, HCl
			Analytical reagent grade, concentrated,

			2.5L/bottle;
32	boxes	20	Ice Box Cooler, 110 Liters
			<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	btl	2	Immersion oil for microscopic analysis, Type A, 30mL
			<i>Type A 30 ml per bottle</i>
34	pcs	2	Lab Gown Long Sleeves L
			☐ <i>Lab Coat High-quality White</i>
			☐ <i>Size- Large; long sleeves</i>
35	pcs	4	Lab Gown Long Sleeves M
			☐ <i>Lab Coat High-quality White</i>
			☐ <i>Long Sleeves</i>
			☐ <i>Medium size</i>
36	pc	2	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM
			☐ <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 0-1600 rpm with two separate knob, convenient use, fast heating and high durability.</i>
37	pieces	3	Laboratory Weighing Boats
			<i>Plastic, 100 mL;</i>
			at least 100 pcs. per box
38	btl	2	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>

			☐5 liters per bottle
39	set	1	Magnetic Bar Set
			<i>7pcs of Mixed size PTFE Magnetic Stirrer Mixer</i>
			<i>Stir Bars White Color Without Pivot Ring</i>
			<i>Shape: Cylinder without Pivot Ring</i>
			<i>Feature: corrosion resistance</i>
			<i>Quantity: 7 pcs</i>
			<i>Size: 7pcs of Mixed</i>
			<i>size</i>
			<i>:C5*15mm C6*20mm C6*25mm C7*25m</i>
			<i>m</i>
			<i>C9*30mm C8*35mm C7*40mm</i>
40	bottle	2	Malachite green oxalate
			<i>reagent and microscopy grade</i>
			<i>25 grams/bottle</i>
41	rolls	10	Masking tape, autoclavable, for laboratory use
			<i>1" wide x 55m length;</i>
42	pack	2	Microcentrifuge Tubes (2.0mL Capacity)
			☐2.0mL Capacity
			☐clear
			☐safe-lock
			☐pack of 1000
			☐autoclavable
43	btl	4	Nutrient Agar
			☐500g per bottle;
44	packs	1	Pipette Tips (20 ul)
			☐20 ul capacity
			☐autoclavable
			☐100 pcs per pack
45	pcs	12	plastic containers
			<i>Microwavable rectangular plastic containers with cover (750ml);</i>
46	bottle	4	Potassium dichromate, AR Grade
			<i>500 grams/poly bottle</i>
47	btl	4	Potato Dextrose Agar (PDA), 500 grams per bottle
48	pack	5	Resealable Plastic Bag, Large
			<i>resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack</i>
49	pack	7	Resealable Plastic Bag, Medium
			<i>resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack;</i>
50	btl	2	Reversible Protein Stain Kit for PVDF 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	pack	1	ROSS reference electrode filling solution (3M KCl)
			☐One pack is composed of 5 bottles
			☐(60 ml. capacity)
52	btls	14	Sodium Hydroxide, AR 500G
			☐500 g/bottle, AR, Pellets;
53	set	2	Spectrophotometer Cuvette
			<i>quartz cuvette, 10mm, standard cell with lid, 45x12.5x12.5 (outside dim, HxWxD), vol. (3.5 mL), path length (10);</i>
54	pcs	7	Stainless Steel Laboratory Microspatula
55	pcs	110	Stainless Steel Trays, for Laboratory Use
			<i>(L 36 cm x W 27 cm); (Depth 6.5 cm);</i>
56	btls	170	Sterile Water for Injection, 100ml per bottle
			<i>Other Specification:; Parental Sterile Non-Pyrogenic Diluent;</i>
57	pc	3	Stirring Rod
			☐Standard Size
			☐Good Quality
			☐with rubber policeman
58	btl	1	Storage Solution for ROSS electrode
			☐Orion application solution
			☐Orion Cat No. 810001.
			☐One bottle is 475mL.
59	btl	12	Sulfuric Acid
			☐Analytical Grade (98%)
			☐2.5 Liters
			☐specific gravity 1.84
60	boxes	1	Test Tubes, 13 x 100mm, 250pcs/box
			<i>borosilicate glass, heat resistant, rimless;</i>
61	boxes	1	Test Tubes, 16 x 100mm, 100 pcs/ box
			☐borosilicate glass, heat resistant, rimless;
62	pack	2	Weighing Paper Sheet, Non-Absorbing
			<i>High-Gloss, Pack of 500</i>
63	pc	1	Vortex Mixer, 220V QL-901, 2800RPM
64	pcs	3	1000 ml Type 1, class A borosilicate glass Beaker
65	pcs	5	250 ml Type 1, class A borosilicate glass Beaker

66	pcs	3	500 ml Type 1, class A borosilicate glass Beaker
67	set	1	Boar Semen Evaluation for SCA Set
			☐(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	packs	10	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
69	packs	15	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
70	pcs	2	Digital Thermostatic Water Bath
			☐Digital Thermostatic Water Bath with 1 Chamber, 3L Capacity, RT to 100°C, 300W Heating Power, 0.1°C
71	pcs	4	Erlenmeyer Flask, Glass, 500mL
			☐500mL capacity, borosilicate glass
72	box	10	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
73	pcs	2	Graduated Cylinder, Glass, 1000mL
			☐Material: Borosilicate Glass

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

			Barcoding, COI (~700bp)
			☐ <i>Inclusions</i>
			◀ -Extraction of gDNA
			◀ -PCR amplification and Purification
			◀ -Bidirectional PCR product sequencing
			◀ -Data analysis (BLAST to show the top 10 matches from database)
87	sets	24	1st BASE MBS-5007 Custom DNA Barcoding
			☐ <i>Custom DNA Barcoding: primer sequence provided by customer.</i>
			☐ <i>Project for primer set x 24 samples</i>
			☐ <i>Inclusions:</i>
			◀ -Extraction of gDNA
			◀ -PCR amplification and Purification
			◀ -Bidirectional PCR product sequencing
			◀ -Data analysis (BLAST to show the top 10 matches from database)
88	packs	3	Herbarium Mounting Paper
			<i>Desired product: Carolina Biological Supply Herbarium Mounting Paper</i>
			<i>Specifications:</i>
			<i>Acid-free: Yes</i>
			<i>Size (LxW) : 11-1/2 x 16-1/2".</i>
			<i>Thickness: 188 mm</i>
89	packs	2	Microcentrifuge
			<i>Desired product: Eppendorf Tube® 5.0 mL (EP-00301)</i>
			<i>Specifications:</i>
			<i>Cap Type: Snap Cap</i>
			<i>Capacity: 5.0 milliliters</i>
			<i>Length: 54 millimeters</i>
			<i>Material: Polypropylene (PP)</i>
			<i>Autoclavable: Yes</i>
			<i>Temp range: +121 °C to -196 °C.</i>
			<i>Color: clear</i>
90	packs	2	Self-standing centrifuge tubes
			<i>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</i>
			<i>Specifications:</i>
			<i>Cap type: Screw cap</i>
			<i>Capacity (Metric): 50 mL</i>
			<i>Length (Metric): 115 mm</i>

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

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

			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Reactive to Human, Mouse, Rat
			☐Host/Isotype: Rabbit / IgG
			☐Concentration: 0.5 mg/mL
			☐Vial of at least 100uL/ug
			☐unconjugated
116	btl	1	Cell Counting Dye
			"☐Molecular biology grade
			☐Suitable for all types of cell lines
			☐Microscopic counting or machine counting compatible
			☐Colorimetric detection method
			☐Sufficient for at least 750 counts (10 µl/count)
			☐Contains at least 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution
			☐Bottle of 100mL, sterile filtered"
117	btl	1	Cesium Fluoride, at least 500g/btl.
			☐Anhydrous
			☐Lab grade/ analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
118	pc	75	Cloth bag, pouch type
			☐9x7 inch, preferably cream color
119	pack	1	Cryogenic tube with screw and cap
			☐volume 5 mL, with external thread, self-standing, RNase and DNase free, sterile, 1000 EA per pack
120	pc	2	Dial Caliper
			☐Dial face scales in Decimal Inch (black) and Metric (red).
			☐Hardened stainless steel throughout.
			☐Inside, outside, step and depth measurement.
			☐Raised sliding surface prevents wear and defacement of graduations.
			☐Covered, stainless steel rack.
			☐Ranges available: 6"/ 150mm, 8"/200mm, 12"/300mm
			☐Graduation: .001"/.02mm

			<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	set	1	Digital Weighing Scale, 50kg
			<ul style="list-style-type: none"> ☐ 1g accuracy ☐ maximum of 50 kg ☐ materials: metal
122	btl	3	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl
123	pc	2	Dry Heat Sterilizer, at least 28L
124	btl	3	Ethanol, Technical Grade
			<ul style="list-style-type: none"> ☐ 95% solution, 20L
125	btl	4	Ethyl Acetate
			<ul style="list-style-type: none"> ☐ Analytical Reagent Grade, 2.5L per bottle
126	btl	4	Fetal/Foetal Bovine Serum (FBS)
			<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	box	5	Filter Paper
			<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	boxes	10	Filter Paper, 12.5 cm. Ashless 2.5um pore size, at least 100 pcs per box
129	pc	2	Firing Cotton
			<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	pc	2	Firing Wire
			<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	box	10	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
132	box	25	Gloves, Nitrile, Small
			☐box or 100-50 pairs, small
			☐natural rubber latex-free, powderless
			☐micro grip
133	Vial	2	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated, in liquid form
			☐Molecular Biology grade
			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Host/Isotype: Goat / IgG
			☐Concentration: 1mg/mL
134	pc	1	Graduated Pitcher, at least 2 liter capacity, Plastic, for laboratory use
135	pc	2	High Precision Magnetic Pocket Transit Geological Compass Scale
			☐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	pc	1	Induction Motor
			☐Voltages - 220 to 240v,60hz,.37kw, 0.5HP
137	Vial	1	Insulin, human recombinant
			☐cell culture mammalian: suitable

			☐sterile filtered of at least 0.2 μm
			☐ ≥ 27.5 units/mg potency
			☐dry powder, 100mg
138	packs	4	Laboratory Weighing Boats, 100pcs/pack
			☐ 3.5 x 7.25 x 3.2"; 2.49lbs, 100ml
139	boxes	6	Latex Disposable Gloves Powder Free (Medium), 100 pcs or 50 pairs per box
140	btl	5	LB Broth, 500g per bottle
141	btl	1	Lemongrass Essential Oil
			☐Lemongrass Oil (<i>Cymbopogon citratus</i> , 30 ml)
142	btl	1	Lemongrass essential Oil, 15mL
			☐Lemongrass Oil (<i>Cymbopogon flexuosus</i> , 15 ml)
143	btl	1	Lithium Bromide, 500g/bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
144	btl	1	Lithium Iodide, 500g/bottle
			☐Anhydrous
			☐Lab grade/Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
145	btl	1	Magnesium Nitrate, 500g/bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
146	btl	1	Malt Yeast Extract Agar
			☐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	btl	1	N-octanol
			☐Technical grade
			☐Purity: 99%
			☐5 liters
148	pc	2	Open Reel Measuring Tape
			☐Fiberglass
			☐Stainless steel frame

			<ul style="list-style-type: none"> ☐ Specification: 30M/50M/100M (98ft/164ft/328ft)
			<ul style="list-style-type: none"> ☐ Material: Stainless steel
			<ul style="list-style-type: none"> ☐ ABS Unit: Metric/Imperial
			<ul style="list-style-type: none"> ☐ Dimension: 30M: approx. 25x17x2cm 50M: approx. 31x18x2.5cm 100M: approx. 31x18x2.5cm
			<ul style="list-style-type: none"> ☐ Rugged, Impact-resistant
			<ul style="list-style-type: none"> ☐ Plating ruler tape/nylon ruler tape, with good clarity and wear-resistant.
			<ul style="list-style-type: none"> ☐ Features Cone Tip Stake for Accurate Measurements and Stability.
			<ul style="list-style-type: none"> ☐ Comes with a convenient carry handle.
			<ul style="list-style-type: none"> ☐ Easy to read Metric and Imperial graduation
149	pcs	5	<ul style="list-style-type: none"> ☐ Ordinary Vernier Caliper
			<ul style="list-style-type: none"> ☐ Plastic material
			<ul style="list-style-type: none"> ☐ Up to 150mm measuring range
			<ul style="list-style-type: none"> ☐ accuracy atleast 1mm
			<ul style="list-style-type: none"> ☐ double scale measurement
			<ul style="list-style-type: none"> ☐ no battery
			<ul style="list-style-type: none"> ☐ Ultra precision and effortless operation.
150	btl	2	<ul style="list-style-type: none"> ☐ Paraformaldehyde
			<ul style="list-style-type: none"> ☐ Reagent or analytical grade
			<ul style="list-style-type: none"> ☐ For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies
			<ul style="list-style-type: none"> ☐ Crystalline form
			<ul style="list-style-type: none"> ☐ Bottle of 25g
151	Vial	1	<ul style="list-style-type: none"> ☐ Perilipin 1 Polyclonal Antibody, unconjugated, in liquid form
			<ul style="list-style-type: none"> ☐ Molecular Biology grade
			<ul style="list-style-type: none"> ☐ Suitable for mammalian cell culture
			<ul style="list-style-type: none"> ☐ For Western Blot, IF, ICC, IHC
			<ul style="list-style-type: none"> ☐ Host/Isotype: Rabbit / IgG
			<ul style="list-style-type: none"> ☐ Reactive to mouse, rat
			<ul style="list-style-type: none"> ☐ Concentration: 1 mg/mL
152	pc	100	<ul style="list-style-type: none"> ☐ Petri dish
			<ul style="list-style-type: none"> ☐ comprise a lid and base
			<ul style="list-style-type: none"> ☐ high clarity glass
			<ul style="list-style-type: none"> ☐ borosilicate glass
			<ul style="list-style-type: none"> ☐ size:
			<ul style="list-style-type: none"> ◀ Cover int. dia mm : 95
			<ul style="list-style-type: none"> ◀ Base ext. dia mm: 94
			<ul style="list-style-type: none"> ◀ Size: 100 x 20
153	btl	1	<ul style="list-style-type: none"> ☐ Phenolphthalein Indicator Powder

			<ul style="list-style-type: none"> ☐AR grade, 125 grams
154	Vial	1	PI-3 Kinase p110α antibody, unconjugated, in liquid form
			<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG
155	btls	1	Picric Acid, 1Li./Bottle
			<ul style="list-style-type: none"> ☐Saturated, Aqueous solution ☐Physical form: Liquid ☐Color: Yellow ☐Concentration or Composition Notes: ☐Approximately 1.2% (w/v) ☐Molecular Weight (g/mol): 229.104
156	packs	5	Pipette Tips (20 ul)
			<ul style="list-style-type: none"> ☐20 ul capacity ☐autoclavable ☐100 pcs per pack
157	pack	1	Plastic cup with cover
			<ul style="list-style-type: none"> ☐30 ml capacity ☐same size as fast food gravy container ☐round shape ☐transparent ☐at least 60pcs cup in one pack
158	btl	1	Potassium Chromate 500g per bottle
			<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
159	btl	1	Potassium Flouride 500g per bottle
			<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
160	set	1	Potentiometer
			<ul style="list-style-type: none"> ☐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: ±100ppm/°C
161	pack	1	PVDF membrane for Western blotting, 8.6 x 13.5 cm
			☐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	pc	10	Reagent Bottle
			☐With Stopper/Screw Cap
			☐Material: Glass/Borosilicate Glass
			☐Color: Clear/Transparent Flask
			☐Capacity: 2000mL
			☐Graduation: 1800mL
163	packs	2	Resealable Plastic Bag, Large
			☐resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack
164	packs	3	Resealable Plastic Bag, Medium
			☐resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack
165	packs	3	Resealable Plastic Bag, Small
			☐resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack
166	box	1	Scalpel Blade
			☐Stainless steel☐100 blades/box
167	btls	2	Sodium Hydroxide, Technical Grade, 1KG, Pellets
			☐Technical grade, pellets, 1 kg
168	btl	1	Sodium Iodide at least 500g per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
169	btl	1	Sodium Nitrate, at least 500g per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles

170	pc	1	Stainless Steel Crucible Tongs
			☐25 cm
			☐Stainless Steel
171	piece	1	Standard Berlese Funnel (Tullgren Funnel)
			☐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	pc	1	Standard Size Marble Base Titration Stand
			☐Marble base with iron/aluminum stand for buret
173	packs	9	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk
174	btl	1	Strontium Nitrate, at least 500 grams per bottle
			☐Anhydrous
			☐Lab grade/ Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottle
175	piece	1	Temperature-Humidity Data Logger
			☐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	pcs	3	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
			☐Stainless steel

177	pc	3	Test Tube Rack, 20 mm x 24 tubes
			☐Stainless Steel, 20 mm diameter holes, capacity 24 test tubes
178	pcs	4	Test Tube Racks, 12MM x 12Holes
			☐Stainless Steel Holes Test Tube Rack
179	pc	2	Weighing Scale, Hanging, Analog
			☐Readability: 0.1g to 0.0000001g
			☐Accuracy: ±1%
			☐Weight capacity: 0g up to 3000g
180	packs	2	Woven Filters, Nylon Mesh, 10pcs/pack
			☐Mesh Opening: 5 um
			☐Water affinity: hydrophilic
			☐High Strength and Adsorption
			☐30 X 30 cm sheet
			☐Thickness: 100 um
181	btl	1	Zinc Bromide, at least 100g per bottle
			☐Anhydrous
			☐Lab grade/Analytical reagent grade
			☐Expiration date(3 years from the delivery date)
			☐Packed in Teflon bottles
182	Vial	1	β-actin polyclonal antibody, unconjugated
			"☐Molecular Biology grade
			☐Suitable for mammalian cell culture
			☐For Western Blot, IF, ICC, IHC
			☐Reactive to Human, Mouse, Rat
			☐Concentration: 1 mg/mL
			☐Host/Isotype: Rabbit / IgG
			☐Vial of at least 100ug"
			Laboratory Equipment
183	set	1	Central Bench, Specification L*D*H(mm); 2000*700*900, Frame: Steel Structure; Cabinet: use high quality
			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	unit	1	Tensile/Bending Compression Testing Machine
			<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	unit	1	20.6 cu.ft. Heavy Duty Side by Side Inverter Refrigerator
			☐20 cu.ft. HD Inverter Side by Side Refrigerator
			☐No-frost Refrigerator
			☐Energy efficient inverter compressor
			☐Quick freeze and quick chill mode
			☐Weight 90 kg
			☐Dimensions 76 × 90 × 170 cm
			☐Digital Temperature Control with LED Display
			☐Independent Temperature Control
			☐Child Lock
			☐Vacation Mode
			☐Eco-LED Lights
			☐Spill – Proof Tempered Glass Shelves
			☐Heavy Duty Handle
			☐Textured Body (Rust and Stain Resistant)
			☐3 Twist Ice Cube Trays and Ice Cube Container
			☐Adjustable Leveling Feet
			☐Input Power: 170W
186	unit	1	Liquid Nitrogen Self- Pressurized Tank (60L)
			☐Self-pressurizing tank
			☐60L capacity
			☐double wall, stainless steel tank used
			☐suitable for the programmable freezer (IMV MicroDigit Cool)
			☐includes hose and pressure system for manual loading of liquid nitrogen from larger storage tanks
187	set	1	Liquid Nitrogen Tanks and Peripherals
			☐Set of Liquid Nitrogen Tanks:
			◀1 - Spectrum 35
			◀2 - Spectrum 20
			◀1 - Spectrum 3

			◀1 - ET-3
			☐Peripherals
			◀Two-shelf canisters
			◀Daisy goblets various colors (65mm)
			◀Visotubes various colors
			◀Flag for canister lifter
			◀Identifier without flag
			◀Liquid nitrogen measuring stick (1000mm)
			◀Protective glasses
188	unit	1	Professional Water Purifier - RO and DI Output
			☐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/cm2; (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	unit	1	Vertical Laminar Flow Hood BBS-SDC with Stand
			☐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
			☐Main Body Material: Adopting cold-roll steel plate with corrosion-proof coating
			☐Work Zone Material: 304 stainless steel
			☐Base Stand Material: Adopting cold-roll steel plate with corrosion-proof coating
			☐Caster: Reverse Wheel with brake
			☐Electrical : 10~240V/50~60Hz
			☐Standard Accessory: Light, UV, Base Stand
			☐Net Weight: 160 kg Package Size 1580*750*1950 mm
190	unit	1	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.
191	unit	1	Portable Oxygen Monitor
			▣Personal single gas monitor designed for protection in workspaces where liquid nitrogen is used.
			▣Portable/pocket size
			▣Lighweight
			▣IP-67 waterproof rating
			▣Audible/visual/vibration alarms
			▣Automatic backlight
192	unit	1	DEEP FREEZER
			▣ 13 cubic feet Chest Freezer
			▣ Wire basket shelving material
			▣ 216 Watts
			▣ No Frost
			▣ with inverter
			▣ Charcoal deodorizer, 220V or auto voltage

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,
and
- ☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Note: If the bidder submits item (a), bidder may not submit requirements (b), (c) & (d).

Technical Documents

- ☐ (f) 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**
- ☐ (g) 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 Seventy-Three Thousand One Hundred Sixty-Six and 50/100 Pesos (PhP 2,073,166.50)*;
or
Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC or at least Two Million Seventy-Three Thousand One Hundred Sixty-Six and 50/100 Pesos (PhP 2,073,166.50)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least One Million One Hundred Forty-Two Thousand Five Hundred Pesos (PhP 1,036,583.25)*; **and**
- ☐ (h) 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**
- ☐ (i) Conformity with the Technical Specifications; **and**
- ☐ (j) Production/delivery schedule; **and**
- ☐ (k) Manpower requirements; **and**
- ☐ (l) After-sales/parts, if applicable; **and**
- ☐ (m) 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

- ☐ (n) 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**
- ☐ (o) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 4,146,333.00**);
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 414,633.30**).

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. Scan all documents and save as Portable Document Format (PDF) files.
2. Properly label each document 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 (November 17, 2021; 8:30 AM).



VISAYAS
STATE UNIVERSITY