



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Laboratory Equipment and Supplies (GOODS-22-52)

Government of the Republic of the Philippines

**November 3, 2022; 2:00 PM
PPO Conference Room, Lower Campus, Visca, Baybay City,
Leyte and via Zoom**

**Sixth Edition
July 2020**

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

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

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

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

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid



**INVITATION TO BID FOR SUPPLY AND DELIVERY OF
LABORATORY EQUIPMENT AND SUPPLIES**

1. The *Visayas State University* through the *GF and STF* intends to apply the sum of *Three Million Eight Hundred Eighty Thousand Four Hundred Forty Pesos (PhP 3,880,440.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Equipment and Supplies (GOODS-22-52)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University*, through the *GF and STF* 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)
1	Handheld Photosynthesis System	unit	1	3,500,000.00	3,500,000.00
	Main System				
	<i>On board IRGA for CO₂/H₂O Analysis, Flow Control</i>				
	<i>Main Unit: Display and Key Board, Leaf Chamber attachment Facility and battery</i>				
	<i>Display: LCD 40 x 6 characters or 320 x 60 pixel</i>				
	<i>Data Storage: 4b MB International FLASH RAM</i>				
	<i>Data output: USB or RS232C PC Link Cable</i>				
	<i>Flow rate: 100 ~ 1000 cm² min⁻¹ (1 lpm)</i>				
	<i>Power Supply: 7.2 VDC, 3.2 mah for 5hours continuous use extended Hours of use with additional batteries. AC Adapter / Battery Charger supplied</i>				
	CO₂ Analyser				
	<i>Sensor: Low power Non-Dispersive Infrared Gas Analyser. No sensitivity to motion, Stable analyser for accurate CO₂ measurements</i>				
	<i>Chopping frequency: 1Hz</i>				
	<i>Sensors response time: 35 seconds</i>				
	<i>Source life: 5000 hours</i>				
	<i>Measuring Range: 0 to 2000 ppm (Standard) – 0 to 3000 ppm (optional)</i>				
	<i>Resolution: 0.1 ppm</i>				
	<i>Repeatability: ±0. 1 ppm (short term)</i>				
	<i>Accuracy: < ± 2% 3000 ppm</i>				
	<i>Sample cell: 100 mm x 10.2mm (3.94" L x 0.40" Dia)</i>				
	<i>Warm-up time: Approximately 3 minutes</i>				
	H₂O Analyser				
	<i>Sensor Type: Humidity Sensitive</i>				

	Capacitor; Stable Analyser for accurate H2O measurements				
	Measuring Range: 0.1%				
	Accuracy: $\pm 2\%$ at 1% RH, $\pm 3.5\%$ at 95% RH				
	Response time: <15 secf				
	PAR MEASUREMENT:				
	Sensor Type: Filtered GaAsp - Photodiode				
	Measuring Range: 0 to ~ 2500 $\mu\text{mol m}^{-2}\text{s}^{-1}$				
	Accuracy: $\pm 5 \mu\text{mol m}^{-2}\text{s}^{-1}$				
	Response time: 400 ~ 700nm				
	Chamber Temperature Measurement				
	Sensor Type: Thermocouple				
	Measuring Range: - 15 ~ 50°C				
	Accuracy: $\pm 0.1^\circ\text{C}$				
	Leaf Temperature Measurement				
	Sensor Type: Infrared Sensor				
	Measuring Range: - 10 ~ 50°C				
	Accuracy: $\pm 0.3^\circ\text{C}$				
2	1 kb Plus DNA Ladder, 1ml	btl	1	7,700.00	7,700.00
3	100mm Funnel Short Stem, Glass	pc	1	1,190.00	1,190.00
4	125 ml Erlenmeyer flask, 70980-125- 125	pcs	5	400.00	2,000.00
5	1X Phosphate buffered saline (PBS), pH 7.2	pack	1	24,000.00	24,000.00
	For cell culture: mammalian suitable				
	Sterile filtered				
	Solution/liquid pH 7.2				
	Pack of 10 bottles, 500 mL per bottle				
6	95% Ethyl Alcohol, Technical Grade (Gallon)	gallon	3	800.00	2,400.00
7	Agarose, Certified Molecular Biology Grade	btl	1	15,900.00	15,900.00
	Certified molecular biology grade				
	For routine separation of ~ 100bp to 20kb				
	Free of DNA binders, inhibitors, DNases, Rnases				
	Low sulfate content				
	Size: 125g per bottle				
8	Alcohol Burner	btl	3	170.00	510.00
	■ Burner Lamp				
	■ Clear Glass Lab				
	■ 150mL				
9	Alcohol, Denatured	gallons	3	600.00	1,800.00
10	Alcohol, Ethyl, 95% (Tech)	liters	3	350.00	1,050.00
11	Amber Injection Glass Vials with cover, 4mL	pack	1	6,500.00	6,500.00
	Screw top vial, 4 mL Amber, write-on spot with cover Autoclavable Compatible with Agilent HPLC Sampler Pack of 100 vials				
12	Autoclavable plastic bag	per 100 pcs.	1	8,000.00	8,000.00
	Color: Transparent Size: 12" x 12"				
13	Beaker, Glass, 100mL	pc	2	500.00	1,000.00
	■ 100mL capacity, borosilicate glass				
14	Beaker, Glass, 20mL	pc	2	300.00	600.00
	■ 20mL capacity, borosilicate glass				
15	Beaker, Glass, 50mL	pc	2	400.00	800.00

	☐50mL capacity, borosilicate glass				
16	Brush for cleaning 250mL Erlenmeyer Flask	pc	2	250.00	500.00
	☐Bristle Color: White Bristle				
	☐Brush+Handle Length: 12"				
	☐Brush Diameter: 1 3/8"				
	☐Brush Length: 3 1/2"				
	☐Suitable for cleaning 250mL Erlenmeyer Flask				
17	Buffer solution, pH 7, 1000 ml.	btl	2	1,000.00	2,000.00
18	Centrifuge (Conical) Tubes, 15mL Capacity	pack	1	950.00	950.00
	☐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				
19	Centrifuge (Conical) Tubes, 50mL Capacity	pack	1	1,050.00	1,050.00
	☐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				
20	Chloroform, ACS, 500mL	liter	3	2,500.00	7,500.00
21	CTAB, ☐500g, AR	btl	2	3,000.00	6,000.00
22	Distilled water, 10 ltrs./bottle	liters	20	200.00	4,000.00
23	DNA Loading Dye	kit	1	15,500.00	15,500.00
	Certified molecular biology grade				
	Non-mutagenic, alternative to ethidium bromide				
	Detection: Fluorescent (364nm/454nm) 6X concentration				
	Size: 1mL				
24	dNTP Solution Mix	kit	1	12,500.00	12,500.00
	Molecular biology grade				
	Premixed dNTP solution 10 mM each dATP, dCTP, dGTP, and dTTP				
	Size: 100uL				
25	EDTA	btl	1	6,900.00	6,900.00
	☐500g				
	☐A.R				
	☐monobasic				
26	Flask Brush	pc	1	850.00	850.00
	For flasks				
	Material: natural bristles				
	Stiff of at least 4 1/2 x 13/4in.				
	Brush mounted on a preformed, plastic handle that adapts itself to the curvature of the flask.				
	Overall Length: at least 16 in.				
	Fits through at least 24/40 joints.				
27	Graduated Cylinder, Glass, 100mL	pcs	1	400.00	400.00
	100mL capacity Type 1, Class A				

	Borosilicate Glass				
28	Hydrochloric acid, HCl	btls	3	1,000.00	3,000.00
	Analytical reagent grade, concentrated, 2.5L/bottle				
29	Inoculating Loop Stainless Steel	pack	1	1,200.00	1,200.00
	10pcs/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology				
30	Lab Gown Long Sleeves L	pcs	1	500.00	500.00
	Lab Coat High-quality White				
	Size- Large; long sleeves				
31	Lab Gown Long Sleeves M	pcs	1	500.00	500.00
	Lab Coat High-quality White				
	Long Sleeves				
	Medium size				
32	Laboratory film	roll	3	2,000.00	6,000.00
	4 in. x 125 feet/roll, flexible, self-sealing, odorless, moisture-resistant, thermoplastic semi-transparent and practically colorless				
33	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity	unit	1	15,000.00	15,000.00
	Material of plate: ceramic coating				
	Speed(RPM) : 0-1600RPM				
	Heating Power : 600W				
	Plate Size : 19 * 19 cm				
	Heating Temperature : 350°C				
34	Laboratory Weighing Boats	pack	2	1,000.00	2,000.00
	Plastic, 100 mL at least 100 pcs. Pack				
35	Magnesium chloride, MgCl₂	btl	2	3,000.00	6,000.00
	1kg per bottle				
	colorless crystalline solid				
	Properties: ◀Quality Level: 300 ◀Grade: anhydrous ◀Assay: ≥98% ◀Form: powder ◀Impurities: ≤0.5% Insolubles ◀bp: 1412°C/1 atm (lit.) ◀mp: 714°C (lit.) ◀Density: 2.32g/mL at 25°C (lit.)				
36	Masking tape, autoclavable, for laboratory use	rolls	1	450.00	450.00
	1" wide x 55m length				
37	MgCl₂ Solution, Molecular Biology Standard	kit	1	5,500.00	5,500.00
	Certified molecular biology grade				
	For PCR analysis				
	Concentration: 50mM				
	Size: 1.25mL				
38	Micro pipette, with stand, P10 (0.5-10ul)	unit	1	8,060.00	8,060.00
39	Micro pipette, with stand, P1000 (200-1000ul)	unit	1	8,060.00	8,060.00
40	Micro pipette, with stand, P200 (20-200ul)	unit	1	8,060.00	8,060.00
41	Micro Tube Brush	pack	1	1,500.00	1,500.00
	For microcentrifuge tubes				
	Brush materials resistant to acids, aromatic and aliphatic hydrocarbons, ketones, ethyl acetate esters, trichloroethylene, and hot water.				
	Length: at least 7 inches				

	Brush size diam. x L: utmost 3/16 - 1/2in. x 3 in.				
	Pack of 4 brushes				
42	Microcentrifuge Tubes (0.6mL Capacity)	pack	1	1,500.00	1,500.00
	0.6mL Capacity clear safe-lock pack of 1000 autoclavable				
43	Microcentrifuge Tubes (1.5mL Capacity)	pack	3	1,000.00	3,000.00
	☐ 1.5mL Capacity				
	☐ clear				
	☐ safe-lock				
	☐ pack of 1000				
	☐ autoclavable				
44	Microcentrifuge Tubes (2.0mL Capacity)	pack	3	2,000.00	6,000.00
	☐ 2.0mL Capacity				
	☐ clear				
	☐ safe-lock				
	☐ pack of 1000				
	☐ autoclavable				
45	Micropipette Tip, 10 uL	pack	3	600.00	1,800.00
	☐ 10 uL-capacity				
	☐ Standard tip, graduated				
	☐ Autoclavable				
	☐ Pack of 1000 tips				
46	Micropipette Tip, 1000 uL	pack	3	750.00	2,250.00
	☐ capacity, 1000 uL				
	☐ Standard tip, graduated				
	☐ Autoclavable				
	☐ Pack of 1000 tips				
47	Micropipette Tip, 200 uL	pack	1	550.00	550.00
	☐ capacity, 200 uL				
	☐ Short tip, graduated,				
	☐ Autoclavable				
	☐ Pack of 1000 tips				
48	Microscope Slides and Square Cover Glass	Box of 100's	2	450.00	900.00
	☐ 100 pcs/box pre-cleaned blank microscope glass slides with ground edges plus 100 piece 22x22mm square glass cover slips.				
	☐ Slide dimensions - 1" x 3" (25.4x76.2mm) with ground edges.				
	☐ Cover slips are 7/8 x 7/8" (22x22mm) and 0.006" (0.13-0.17mm) in thickness.				
49	Molecular Ladder, 100 - 1000bp	kit	1	15,900.00	15,900.00
	Certified molecular biology grade				
	Range: 100bp - 1000bp				
	Increment: 50 or 100bp				
	Size: 250uL				
50	Mortar and Pestle, Heavy Duty	unit	2	850.00	1,700.00
	Mortars with spout				
	Material: Porcelain for both mortar and pestle				
	Inside grinding surface unglazed				
	Capacity: 145 mL, 90 x 70 mm				
	Heat and cold resistant				
51	PCR loading dye	unit	1	9,600.00	9,600.00
	☐ 10x, 1 ampule				
52	PCR Tube Rack with Cover	pc	5	650.00	3,250.00

	For PCR tubes storage				
	Material: PP Autoclavable. Convenient Polypropylene				
	Rack for 0.2 ml PCR tubes strips and plates.This rack is stackable with or without lid.				
	Capacity: 96				
53	PCR Tubes (0.2mL Capacity)	pack	3	1,500.00	4,500.00
	0.2mL Capacity clearsafe-lock pack of 1000 autoclavable				
54	Petri Dish	pc	30	200.00	6,000.00
	☐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				
55	Pipette Tips (1 ml)	pack	1	1,000.00	1,000.00
	☐1 ml, autoclavable				
	☐100 pcs per pack				
56	Pipette Tips (20 ul)	packs	2	500.00	1,000.00
	☐20 ul capacity				
	☐autoclavable				
	☐100 pcs per pack				
57	Pippette Tip Holder Box 28 Vents	box of 50's	3	1,000.00	3,000.00
	☐For use with 5ml pipette tips				
58	Pippette Tips 5ml	packs	1	1,400.00	1,400.00
	☐100 pcs of 5-ml pipette tips per pack				
59	Proteinase K	pack	2	9,400.00	18,800.00
	Molecular biology grade, DNase-Free, RNase-Free				
	For general digestion of proteins				
	Lyophilized form				
	Pack of at least 100mg with appropriate buffer				
60	Qualitative filter paper, Grade 1 or its equivalent	pack	1	700.00	700.00
	☐Material: cellulose filters, circles				
	☐Pack Size: 100 pcs				
	☐Parameter: 0.25 psi wet burst				
	☐Diameter :25mm				
	☐Thickness: 180µm				
	☐Pore size: 11µm (Particle retention)				
	☐Basis weight: 87g/m2				
61	Reagent Bottles	btls	5	500.00	2,500.00
	☐Autoclavable				
	☐amber bottle with ground glass cover				
	☐250 mL capacity				
62	Scalpel Blade	box of 50's	2	280.00	560.00
	☐Stainless steel				
	☐100 blades/box				
63	Scalpel Handle	pcs	2	70.00	140.00
	☐#4, Stainless steel				
64	Self standing centrifuge tubes	pack	4	1,250.00	5,000.00
	Desired product: 50ml Plastic Centrifuge Tubes with Screw Cap, CBTONE 50 Pack Self-Standing Plastic 50ml Test Tube				

	Polypropylene Conical Tubes with Cap, Graduated Marks				
	Specifications:				
	Cap typeScrew cap				
	Capacity (Metric) 50 mL				
	Length (Metric)115 mm				
	Material Polypropylene (PP)				
	Dimension (D*L)1.0 x 4.5inch / 25 x 114mm				
65	Sodium dodecyl sulfate (SDS)	btl	1	27,000.00	27,000.00
	☑Molecular biology grade, at least ≥99.0% assay quality				
	☑Suitable for protein analysis and electrophoresis				
	☑Dnase-free and Rnase-free				
	☑Phosphatase-free and proteases-free				
	☑Bottle of at least 500g				
66	Stainless Steel Laboratory Microspatula	pieces	1	3,000.00	3,000.00
67	Taq Universal SYBR Green Supermix	kit	1	19,500.00	19,500.00
	Certified molecular biology grade				
	For qPCR/rtPCR analysis				
	Ready to use reaction mix				
	The mixture includes an enzyme, dNTPs, MgCl ₂ , SYBR Green I dye, enhancer, stabilizer				
	Size: 2 x 1mL (200 x 20uL rxn)				
68	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	pcs	2	800.00	1,600.00
	☑Stainless steel				
69	Test Tubes, 13 x 100mm, 250pcs/box	boxes	1	8,000.00	8,000.00
	borosilicate glass, heat resistant, rimless				
70	Toluene	btl	1	7,300.00	7,300.00
	☑(CAS 108-88-3)				
	☑2.5 liters,				
	☑Analytical Grade				
	☑99.5%				
71	Volumetric Flask 100ml	pc	1	800.00	800.00
	☑100 mL (±0.01 mL)				
	☑Borosilicate glass with glass standard taper stopper,				
	☑Class A				
	☑Calibrated				
72	Volumetric Flask 10ml	pc	1	360.00	360.00
	☑10 mL (± 0.02 mL)				
	☑Class A				
	☑Borosilicate Glass with Glass Standard Taper Stopper				
	☑calibrated				
73	Wall-mounted Cupboard/Cabinet	unit	2	12,000.00	24,000.00
	Purpose: Laboratory storage cabinet				
	Material: High quality galvanized steel sheet				
	Surface: Electrospayed with epoxy-resin				
	Door panel: High quality galvanized steel with Glass Door				
	Handle: Aluminum dark type handle				
	Dimension: at least 1240 x 380 x 570 mm				
	Doors: 3-door cabinet				

	Layer per door: one removable shelf				
	Color: must be WHITE On-site installation included				
74	Wash Bottle, 250mL cap.	pc	2	200.00	400.00
	Material: Plastic (good quality)				
				TOTAL:	3,880,440.00

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

2. The *Visayas State University* now invites bids for the above Procurement Project. Delivery of the Goods is required by *ninety (90) calendar days upon receipt of Notice to Proceed (NTP)*. Bidders should have completed, within *two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.
4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *08 October – 03 November 2022 until 1:30 PM* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
6. The *Visayas State University* will hold a Pre-Bid Conference on *October 18, 2022; 3:30 PM* at the *PPO Conference Room, Lower Campus, Visca, Baybay City, Leyte* and through video conferencing *via Zoom*, which shall be open to prospective bidders.

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

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated

below, or (iii) both on or before *03 November 2022 until 1:30 PM*. Late bids shall not be accepted.

8. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through preferred couriers. A proof (e.g. courier receipt/waybill, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
10. Bid opening shall be on *03 November 2022; 2:00 PM* at the *PPO Conference Room, Lower Campus, Visca, Baybay City, Leyte* and via *Zoom*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Bidders are advised to contact the BAC Secretariat before the scheduled Bid Opening for the Zoom Meeting Details.

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

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: 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 7, 2022



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 and Supplies*, with identification number *GOODS-22-52*.

The Procurement Project (referred to herein as “Project”) is composed of *74 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 2022 in the amount of *Three Million Eight Hundred Eighty Thousand Four Hundred Forty Pesos (PhP 3,880,440.00)*.

2.2. The source of funding is: NGA, the GAA and STF.

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

Bidder should comply with the following requirements:

- i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%)* of the ABC for this Project; and
- ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

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

7. Subcontracts

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

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

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

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

11. Documents comprising the Bid: Financial Component

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

12. Bid Prices

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

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

13. Bid and Payment Currencies

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

13.2. Payment of the contract price shall be made in: Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until *March 2, 2023*. 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	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> a. <i>Laboratory Equipment, Laboratory Supplies, Laboratory Chemicals or a combination of the foregoing</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	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than <i>Seventy-Seven Thousand Six Hundred Eight and 80/100 Pesos (PhP 77,608.80) 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>One Hundred Ninety-Four Thousand Twenty-Two Pesos (PhP 194,022.00) or five percent (5%) of ABC</i> if bid security is in Surety Bond.
15	<p>Bidders are requested to submit two (2) more copies of its bid (Copy 1 and Copy 2) in addition to the required original hardcopy.</p> <p>For filing purposes, the bidders are urged to use Red envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.</p>
19.3	<i>See Section I. Invitation to Bid (Item 1) for the list of items and their corresponding total Approved Budget for the Contract (ABC) per item.</i>
20.2	Bidders are required to submit its updated Mayor's/Business Permit during post-qualification.
21.2	<i>Not Applicable.</i>

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

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

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

3. Performance Security

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

4. Inspection and Tests

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

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery term applicable to this Contract is delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site are:</p> <p style="text-align: center;"><i>Mr. Servando Latras, Jr. or Mr. John Adaza III</i> <i>Bodega-Incharge, Supply and Property Office</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082</i> <i>Email: sppmo@vsu.edu.ph</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 – if applicable

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

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

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

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

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

Packaging –

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

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

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

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

	<p>Intellectual Property Rights – if applicable</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 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
1	unit	1	Handheld Photosynthesis System	All Items Should Be Delivered to VSU Main Campus, Visca, Baybay City, Leyte within 90 Calendar Days From Receipt Of Notice To Proceed And Purchase Order
			Main System	
			<i>On board IRGA for CO₂/H₂O Analysis, Flow Control</i>	
			<i>Main Unit: Display and Key Board, Leaf Chamber attachment Facility and battery</i>	
			<i>Display: LCD 40 x 6 characters or 320 x 60 pixel</i>	
			<i>Data Storage: 4b MB International FLASH RAM</i>	
			<i>Data output: USB or RS232C PC Link Cable</i>	
			<i>Flow rate: 100 ~ 1000 cm² min⁻¹ (1 lpm)</i>	
			<i>Power Supply: 7.2 VDC, 3.2 mah for 5hours continuous use extended Hours of use with additional batteries. AC Adapter / Battery Charger supplied</i>	
			CO₂ Analyser	
			<i>Sensor: Low power Non-Dispersive Infrared Gas Analyser. No sensitivity to motion, Stable analyser for accurate CO₂ measurements</i>	
			<i>Chopping frequency: 1Hz</i>	
			<i>Sensors response time: 35 seconds</i>	
			<i>Source life: 5000 hours</i>	
			<i>Measuring Range: 0 to 2000 ppm (Standard) – 0 to 3000 ppm (optional)</i>	
			<i>Resolution: 0.1 ppm</i>	
			<i>Repeatability: ±0.1 ppm (short term)</i>	
			<i>Accuracy: < ± 2% 3000 ppm</i>	
			<i>Sample cell: 100 mm x 10.2mm (3.94" L x 0.40" Dia)</i>	
			<i>Warm-up time: Approximately 3 minutes</i>	
			H₂O Analyser	
			<i>Sensor Type: Humidity Sensitive Capacitor; Stable Analyser for accurate H₂O measurements</i>	
			<i>Measuring Range: 0.1%</i>	
			<i>Accuracy: ±2% at 1% RH, ±3.5% at 95% RH</i>	
			<i>Response time: <15 secf</i>	
			PAR MEASUREMENT:	
			<i>Sensor Type: Filtered GaAsp - Photodiode</i>	
			<i>Measuring Range: 0 to ~ 2500 umol m⁻²s⁻¹</i>	
			<i>Accuracy: ±5 umol m⁻²s⁻¹</i>	
			<i>Response time: 400 ~ 700nm</i>	
			Chamber Temperature Measurement	
			<i>Sensor Type: Thermocouple</i>	
			<i>Measuring Range: – 15 ~ 50°C</i>	
			<i>Accuracy: ±0.1°C</i>	
			Leaf Temperature Measurement	

			<i>Sensor Type: Infrared Sensor</i>
			<i>Measuring Range: – 10 ~ 50°C</i>
			<i>Accuracy: ±0.3°C</i>
2	btl	1	1 kb Plus DNA Ladder, 1ml
3	pc	1	100mm Funnel Short Stem, Glass
4	pcs	5	125 ml Erlenmeyer flask, 70980-125- 125
5	pack	1	1X Phosphate buffered saline (PBS), pH 7.2
			For cell culture: mammalian suitable
			Sterile filtered
			Solution/liquid pH 7.2
			Pack of 10 bottles, 500 mL per bottle
6	gallon	3	95% Ethyl Alcohol, Technical Grade (Gallon)
7	btl	1	Agarose, Certified Molecular Biology Grade
			Certified molecular biology grade
			For routine separation of ~ 100bp to 20kb
			Free of DNA binders, inhibitors, DNases, Rnases
			Low sulfate content
			Size: 125g per bottle
8	btl	3	Alcohol Burner
			☐ Burner Lamp
			☐ Clear Glass Lab
			☐ 150mL
9	gallons	3	Alcohol, Denatured
10	liters	3	Alcohol, Ethyl, 95% (Tech)
11	pack	1	Amber Injection Glass Vials with cover, 4mL
			Screw top vial, 4 mL Amber, write-on spot with cover Autoclavable Compatible with Agilent HPLC Sampler Pack of 100 vials
12	per 100 pcs.	1	Autoclavable plastic bag
			Color: Transparent Size: 12" x 12"
13	pc	2	Beaker, Glass, 100mL
			☐ 100mL capacity, borosilicate glass
14	pc	2	Beaker, Glass, 20mL
			☐ 20mL capacity, borosilicate glass
15	pc	2	Beaker, Glass, 50mL
			☐ 50mL capacity, borosilicate glass
16	pc	2	Brush for cleaning 250mL Erlenmeyer Flask
			☐ Bristle Color: White Bristle
			☐ Brush+Handle Length: 12"
			☐ Brush Diameter: 1 3/8"
			☐ Brush Length: 3 1/2"
			☐ Suitable for cleaning 250mL Erlenmeyer Flask
17	btl	2	Buffer solution, pH 7, 1000 ml.
18	pack	1	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
19	pack	1	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
20	liter	3	Chloroform, ACS, 500mL
21	btl	2	CTAB, ☐500g, AR
22	liters	20	Distilled water, 10 ltrs./bottle
23	kit	1	DNA Loading Dye
			Certified molecular biology grade
			Non-mutagenic, alternative to ethidium bromide
			Detection: Fluorescent (364nm/454nm) 6X concentration
			Size: 1mL
24	kit	1	dNTP Solution Mix
			Molecular biology grade
			Premixed dNTP solution 10 mM each dATP, dCTP, dGTP, and dTTP
			Size: 100uL
25	btl	1	EDTA
			☐500g
			☐A.R
			☐monobasic
26	pc	1	Flask Brush
			For flasks
			Material: natural bristles
			Stiff of at least 4 1/2 x 13/4in.
			Brush mounted on a preformed, plastic handle that adapts itself to the curvature of the flask.
			Overall Length: at least 16 in.
			Fits through at least 24/40 joints.
27	pcs	1	Graduated Cylinder, Glass, 100mL
			100mL capacity Type 1, Class A Borosilicate Glass
28	btls	3	Hydrochloric acid, HCl
			Analytical reagent grade, concentrated, 2.5L/bottle
29	pack	1	Inoculating Loop Stainless Steel
			☐10pcs/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology
30	pcs	1	Lab Gown Long Sleeves L
			☐Lab Coat High-quality White
			☐Size- Large; long sleeves
31	pcs	1	Lab Gown Long Sleeves M
			☐Lab Coat High-quality White
			☐Long Sleeves
			☐Medium size

32	roll	3	Laboratory film 4 in. x 125 feet/roll, flexible, self-sealing, odorless, moisture-resistant, thermoplastic semi-transparent and practically colorless
33	unit	1	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity Material of plate: ceramic coating Speed(RPM) : 0-1600RPM Heating Power : 600W Plate Size : 19 * 19 cm Heating Temperature : 350°C
34	pack	2	Laboratory Weighing Boats Plastic, 100 mL at least 100 pcs. Pack
35	btl	2	Magnesium chloride, MgCl₂ 1kg per bottle colorless crystalline solid Properties: ◀Quality Level: 300 ◀Grade: anhydrous ◀Assay: ≥98% ◀Form: powder ◀Impurities: ≤0.5% Insolubles ◀bp: 1412°C/1 atm (lit.) ◀mp: 714°C (lit.) ◀Density: 2.32g/mL at 25°C (lit.)
36	rolls	1	Masking tape, autoclavable, for laboratory use 1" wide x 55m length
37	kit	1	MgCl₂ Solution, Molecular Biology Standard Certified molecular biology grade For PCR analysis Concentration: 50mM Size: 1.25mL
38	unit	1	Micro pipette, with stand, P10 (0.5-10ul)
39	unit	1	Micro pipette, with stand, P1000 (200-1000ul)
40	unit	1	Micro pipette, with stand, P200 (20-200ul)
41	pack	1	Micro Tube Brush For microcentrifuge tubes Brush materials resistant to acids, aromatic and aliphatic hydrocarbons, ketones, ethyl acetate esters, trichloroethylene, and hot water. Length: at least 7 inches Brush size diam. x L: utmost 3/16 - 1/2in. x 3 in. Pack of 4 brushes
42	pack	1	Microcentrifuge Tubes (0.6mL Capacity) 0.6mL Capacity clear safe-lock pack of 1000 autoclavable
43	pack	3	Microcentrifuge Tubes (1.5mL Capacity) 1.5mL Capacity clear safe-lock pack of 1000 autoclavable
44	pack	3	Microcentrifuge Tubes (2.0mL Capacity) 2.0mL Capacity clear safe-lock

			<ul style="list-style-type: none"> ☐ pack of 1000 ☐ autoclavable
45	pack	3	<p>Micropipette Tip, 10 uL</p> <ul style="list-style-type: none"> ☐ 10 uL-capacity ☐ Standard tip, graduated ☐ Autoclavable
46	pack	3	<p>Micropipette Tip, 1000 uL</p> <ul style="list-style-type: none"> ☐ Pack of 1000 tips ☐ capacity, 1000 uL ☐ Standard tip, graduated ☐ Autoclavable
47	pack	1	<p>Micropipette Tip, 200 uL</p> <ul style="list-style-type: none"> ☐ Pack of 1000 tips ☐ capacity, 200 uL ☐ Short tip, graduated, ☐ Autoclavable ☐ Pack of 1000 tips
48	Box of 100's	2	<p>Microscope Slides and Square Cover Glass</p> <ul style="list-style-type: none"> ☐ 100pcs/box pre-cleaned blank microscope glass slides with ground edges plus 100 piece 22x22mm square glass cover slips. ☐ Slide dimensions - 1" x 3" (25.4x76.2mm) with ground edges. ☐ Cover slips are 7/8 x 7/8" (22x22mm) and 0.006" (0.13-0.17mm) in thickness.
49	kit	1	<p>Molecular Ladder, 100 - 1000bp</p> <ul style="list-style-type: none"> Certified molecular biology grade Range: 100bp - 1000bp Increment: 50 or 100bp Size: 250uL
50	unit	2	<p>Mortar and Pestle, Heavy Duty</p> <ul style="list-style-type: none"> Mortars with spout Material: Porcelain for both mortar and pestle Inside grinding surface unglazed Capacity: 145 mL, 90 x 70 mm Heat and cold resistant
51	unit	1	<p>PCR loading dye</p> <ul style="list-style-type: none"> ☐ 10x, 1 ampule
52	pc	5	<p>PCR Tube Rack with Cover</p> <ul style="list-style-type: none"> For PCR tubes storage Material: PP Autoclavable. Convenient Polypropylene Rack for 0.2 ml PCR tubes strips and plates. This rack is stackable with or without lid. Capacity: 96
53	pack	3	<p>PCR Tubes (0.2mL Capacity)</p> <ul style="list-style-type: none"> 0.2mL Capacity clearsafe-lock pack of 1000 autoclavable
54	pc	30	<p>Petri Dish</p> <ul style="list-style-type: none"> ☐ 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
55	pack	1	<p>Pipette Tips (1 ml)</p>

			☐1 ml, autoclavable
			☐100 pcs per pack
56	packs	2	Pipette Tips (20 ul)
			☐20 ul capacity
			☐autoclavable
			☐100 pcs per pack
57	box of 50's	3	Pippette Tip Holder Box 28 Vents
			☐For use with 5ml pipette tips
58	packs	1	Pippette Tips 5ml
			☐100 pcs of 5-ml pipette tips per pack
59	pack	2	Proteinase K
			Molecular biology grade, DNase-Free, RNase-Free
			For general digestion of proteins
			Lyophilized form
			Pack of at least 100mg with appropriate buffer
60	pack	1	Qualitative filter paper, Grade 1 or its equivalent
			☐Material: cellulose filters, circles
			☐Pack Size: 100 pcs
			☐Parameter: 0.25 psi wet burst
			☐Diameter :25mm
			☐Thickness: 180µm
			☐Pore size: 11µm (Particle retention)
			☐Basis weight: 87g/m ²
61	btls	5	Reagent Bottles
			☐Autoclavable
			☐amber bottle with ground glass cover
			☐250 mL capacity
62	box of 50's	2	Scalpel Blade
			☐Stainless steel
			☐100 blades/box
63	pcs	2	Scalpel Handle
			☐#4, Stainless steel
64	pack	4	Self standing centrifuge tubes
			Desired product: 50ml Plastic Centrifuge Tubes with Screw Cap, CBTONE 50 Pack Self-Standing Plastic 50ml Test Tube Polypropylene Conical Tubes with Cap, Graduated Marks
			Specifications:
			Cap typeScrew cap
			Capacity (Metric) 50 mL
			Length (Metric)115 mm
			Material Polypropylene (PP)
			Dimension (D*L)1.0 x 4.5inch / 25 x 114mm
65	btl	1	Sodium dodecyl sulfate (SDS)
			☐Molecular biology grade, at least ≥99.0% assay quality
			☐Suitable for protein analysis and electrophoresis

			☐Dnase-free and Rnase-free
			☐Phosphatase-free and proteases-free
			☐Bottle of at least 500g
66	pieces	1	Stainless Steel Laboratory Microspatula
67	kit	1	Taq Universal SYBR Green Supermix
			Certified molecular biology grade
			For qPCR/rtPCR analysis
			Ready to use reaction mix
			The mixture includes an enzyme, dNTPs, MgCl ₂ , SYBR Green I dye, enhancer, stabilizer
			Size: 2 x 1mL (200 x 20uL rxn)
68	pcs	2	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
			☐Stainless steel
69	boxes	1	Test Tubes, 13 x 100mm, 250pcs/box
			borosilicate glass, heat resistant, rimless
70	btl	1	Toluene
			☐(CAS 108-88-3)
			☐2.5 liters,
			☐Analytical Grade
			☐99.5%
71	pc	1	Volumetric Flask 100ml
			☐100 mL (±0.01 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
72	pc	1	Volumetric Flask 10ml
			☐10 mL (± 0.02 mL)
			☐Class A
			☐Borosilicate Glass with Glass Standard Taper Stopper
			☐calibrated
73	unit	2	Wall-mounted Cupboard/Cabinet
			Purpose: Laboratory storage cabinet
			Material: High quality galvanized steel sheet
			Surface: Electrospayed with epoxy-resin
			Door panel: High quality galvanized steel with Glass Door
			Handle: Aluminum dark type handle
			Dimension: at least 1240 x 380 x 570 mm
			Doors: 3-door cabinet
			Layer per door: one removable shelf
			Color: must be WHITE On-site installation included
74	pc	2	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality)

Section VII. Technical Specifications

Technical Specifications

Item No.	Unit	Qty	Description	Statement of Compliance
1	unit	1	Handheld Photosynthesis System	<p>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</p>
			Main System	
			On board IRGA for CO ₂ /H ₂ O Analysis, Flow Control	
			Main Unit: Display and Key Board, Leaf Chamber attachment Facility and battery	
			Display: LCD 40 x 6 characters or 320 x 60 pixel	
			Data Storage: 4b MB International FLASH RAM	
			Data output: USB or RS232C PC Link Cable	
			Flow rate: 100 ~ 1000 cm ² min ⁻¹ (1 lpm)	
			Power Supply: 7.2 VDC, 3.2 mah for 5hours continuous use extended Hours of use with additional batteries. AC Adapter / Battery Charger supplied	
			CO₂ Analyser	
			Sensor: Low power Non-Dispersive Infrared Gas Analyser. No sensitivity to motion, Stable analyser for accurate CO ₂ measurements	
			Chopping frequency: 1Hz	
			Sensors response time: 35 seconds	
			Source life: 5000 hours	
			Measuring Range: 0 to 2000 ppm (Standard) – 0 to 3000 ppm (optional)	
			Resolution: 0.1 ppm	
			Repeatability: ±0.1 ppm (short term)	
			Accuracy: < ± 2% 3000 ppm	
			Sample cell: 100 mm x 10.2mm (3.94" L x 0.40" Dia)	
			Warm-up time: Approximately 3 minutes	
			H₂O Analyser	
			Sensor Type: Humidity Sensitive Capacitor; Stable Analyser for accurate H ₂ O measurements	
			Measuring Range: 0.1%	
			Accuracy: ±2% at 1% RH, ±3.5% at 95% RH	
			Response time: <15 secf	
			PAR MEASUREMENT:	
			Sensor Type: Filtered GaAsp - Photodiode	
			Measuring Range: 0 to ~ 2500 umol m ⁻² s ⁻¹	
			Accuracy: ±5 umol m ⁻² s ⁻¹	
			Response time: 400 ~ 700nm	
			Chamber Temperature Measurement	
			Sensor Type: Thermocouple	
			Measuring Range: – 15 ~ 50°C	
			Accuracy: ±0.1°C	
			Leaf Temperature Measurement	

			<i>Sensor Type: Infrared Sensor</i>
			<i>Measuring Range: – 10 ~ 50°C</i>
			<i>Accuracy: ±0.3°C</i>
2	btl	1	1 kb Plus DNA Ladder, 1ml
3	pc	1	100mm Funnel Short Stem, Glass
4	pcs	5	125 ml Erlenmeyer flask, 70980-125- 125
5	pack	1	1X Phosphate buffered saline (PBS), pH 7.2
			For cell culture: mammalian suitable
			Sterile filtered
			Solution/liquidpH 7.2
			Pack of 10 bottles, 500 mL per bottle
6	gallon	3	95% Ethyl Alcohol, Technical Grade (Gallon)
7	btl	1	Agarose, Certified Molecular Biology Grade
			Certified molecular biology grade
			For routine separation of ~ 100bp to 20kb
			Free of DNA binders, inhibitors, DNases, Rnases
			Low sulfate content
			Size: 125g per bottle
8	btl	3	Alcohol Burner
			☐Burner Lamp
			☐Clear Glass Lab
			☐150mL
9	gallons	3	Alcohol, Denatured
10	liters	3	Alcohol, Ethyl, 95% (Tech)
11	pack	1	Amber Injection Glass Vials with cover, 4mL
			Screw top vial, 4 mL Amber, write-on spot with cover Autoclavable Compatible with Agilent HPLC Sampler Pack of 100 vials
12	per 100 pcs.	1	Autoclavable plastic bag
			Color: TransparentSize: 12" x 12"
13	pc	2	Beaker, Glass, 100mL
			☐100mL capacity, borosilicate glass
14	pc	2	Beaker, Glass, 20mL
			☐20mL capacity, borosilicate glass
15	pc	2	Beaker, Glass, 50mL
			☐50mL capacity, borosilicate glass
16	pc	2	Brush for cleaning 250mL Erlenmeyer Flask
			☐Bristle Color: White Bristle
			☐Brush+Handle Length: 12"
			☐Brush Diameter: 1 3/8"
			☐Brush Length: 3 1/2"
			☐Suitable for cleaning 250mL Erlenmeyer Flask
17	btl	2	Buffer solution, pH 7, 1000 ml.
18	pack	1	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
19	pack	1	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
20	liter	3	Chloroform, ACS, 500mL
21	btl	2	CTAB, ☐500g, AR
22	liters	20	Distilled water, 10 ltrs./bottle
23	kit	1	DNA Loading Dye
			Certified molecular biology grade
			Non-mutagenic, alternative to ethidium bromide
			Detection: Fluorescent (364nm/454nm) 6X concentration
			Size: 1mL
24	kit	1	dNTP Solution Mix
			Molecular biology grade
			Premixed dNTP solution 10 mM each dATP, dCTP, dGTP, and dTTP
			Size: 100uL
25	btl	1	EDTA
			☐500g
			☐A.R
			☐monobasic
26	pc	1	Flask Brush
			For flasks
			Material: natural bristles
			Stiff of at least 4 1/2 x 13/4in.
			Brush mounted on a preformed, plastic handle that adapts itself to the curvature of the flask.
			Overall Length: at least 16 in.
			Fits through at least 24/40 joints.
27	pcs	1	Graduated Cylinder, Glass, 100mL
			100mL capacity Type 1, Class A Borosilicate Glass
28	btl	3	Hydrochloric acid, HCl
			Analytical reagent grade, concentrated, 2.5L/bottle
29	pack	1	Inoculating Loop Stainless Steel
			☐10pcs/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology
30	pcs	1	Lab Gown Long Sleeves L
			☐Lab Coat High-quality White
			☐Size- Large; long sleeves
31	pcs	1	Lab Gown Long Sleeves M
			☐Lab Coat High-quality White
			☐Long Sleeves
			☐Medium size

32	roll	3	Laboratory film
			4 in. x 125 feet/roll, flexible, self-sealing, odorless, moisture-resistant, thermoplastic semi-transparent and practically colorless
33	unit	1	Laboratory Hot Plate Magnetic Stirrer, 0-1600 RPM, 5000 mL maximum stirring capacity
			Material of plate: ceramic coating
			Speed(RPM) : 0-1600RPM
			Heating Power : 600W
			Plate Size : 19 * 19 cm
			Heating Temperature : 350°C
34	pack	2	Laboratory Weighing Boats
			Plastic, 100 mL at least 100 pcs. Pack
35	btl	2	Magnesium chloride, MgCl₂
			1kg per bottle
			colorless crystalline solid
			Properties: ◀Quality Level: 300 ◀Grade: anhydrous ◀Assay: ≥98% ◀Form: powder ◀Impurities: ≤0.5% Insolubles ◀bp: 1412°C/1 atm (lit.) ◀mp: 714°C (lit.) ◀Density: 2.32g/mL at 25°C (lit.)
36	rolls	1	Masking tape, autoclavable, for laboratory use
			1" wide x 55m length
37	kit	1	MgCl₂ Solution, Molecular Biology Standard
			Certified molecular biology grade
			For PCR analysis
			Concentration: 50mM
			Size: 1.25mL
38	unit	1	Micro pipette, with stand, P10 (0.5-10ul)
39	unit	1	Micro pipette, with stand, P1000 (200-1000ul)
40	unit	1	Micro pipette, with stand, P200 (20-200ul)
41	pack	1	Micro Tube Brush
			For microcentrifuge tubes
			Brush materials resistant to acids, aromatic and aliphatic hydrocarbons, ketones, ethyl acetate esters, trichloroethylene, and hot water.
			Length: at least 7 inches
			Brush size diam. x L: utmost 3/16 - 1/2in. x 3 in.
			Pack of 4 brushes
42	pack	1	Microcentrifuge Tubes (0.6mL Capacity)
			0.6mL Capacity clear safe-lock pack of 1000 autoclavable
43	pack	3	Microcentrifuge Tubes (1.5mL Capacity)
			1.5mL Capacity
			clear
			safe-lock
			pack of 1000
			autoclavable
44	pack	3	Microcentrifuge Tubes (2.0mL Capacity)
			2.0mL Capacity
			clear

			<ul style="list-style-type: none"> ☑safe-lock
			<ul style="list-style-type: none"> ☑pack of 1000
			<ul style="list-style-type: none"> ☑autoclavable
45	pack	3	Micropipette Tip, 10 uL <ul style="list-style-type: none"> ☑10 uL-capacity ☑Standard tip, graduated ☑Autoclavable ☑Pack of 1000 tips
46	pack	3	Micropipette Tip, 1000 uL <ul style="list-style-type: none"> ☑capacity, 1000 uL ☑Standard tip, graduated ☑Autoclavable ☑Pack of 1000 tips
47	pack	1	Micropipette Tip, 200 uL <ul style="list-style-type: none"> ☑capacity, 200 uL ☑Short tip, graduated, ☑Autoclavable ☑Pack of 1000 tips
48	Box of 100's	2	Microscope Slides and Square Cover Glass <ul style="list-style-type: none"> ☑100pcs/box pre-cleaned blank microscope glass slides with ground edges plus 100 piece 22x22mm square glass cover slips. ☑Slide dimensions - 1" x 3" (25.4x76.2mm) with ground edges. ☑Cover slips are 7/8 x 7/8" (22x22mm) and 0.006" (0.13-0.17mm) in thickness.
49	kit	1	Molecular Ladder, 100 - 1000bp <ul style="list-style-type: none"> Certified molecular biology grade Range: 100bp - 1000bp Increment: 50 or 100bp Size: 250uL
50	unit	2	Mortar and Pestle, Heavy Duty <ul style="list-style-type: none"> Mortars with spout Material: Porcelain for both mortar and pestle Inside grinding surface unglazed Capacity: 145 mL, 90 x 70 mm Heat and cold resistant
51	unit	1	PCR loading dye <ul style="list-style-type: none"> ☑10x, 1 ampule
52	pc	5	PCR Tube Rack with Cover <ul style="list-style-type: none"> For PCR tubes storage Material: PP Autoclavable. Convenient Polypropylene Rack for 0.2 ml PCR tubes strips and plates. This rack is stackable with or without lid. Capacity: 96
53	pack	3	PCR Tubes (0.2mL Capacity) <ul style="list-style-type: none"> 0.2mL Capacity clearsafe-lock pack of 1000 autoclavable
54	pc	30	Petri Dish <ul style="list-style-type: none"> ☑comprise a lid and base ☑high clarity glass ☑borosilicate glass

			<ul style="list-style-type: none"> ☐size: ◀Cover int. dia mm : 95 ◀Base ext. dia mm: 94 ◀Size: 100 x 20
55	pack	1	Pipette Tips (1 ml)
			<ul style="list-style-type: none"> ☐1 ml, autoclavable ☐100 pcs per pack
56	packs	2	Pipette Tips (20 ul)
			<ul style="list-style-type: none"> ☐20 ul capacity ☐autoclavable ☐100 pcs per pack
57	box of 50's	3	Pipette Tip Holder Box 28 Vents
			<ul style="list-style-type: none"> ☐For use with 5ml pipette tips
58	packs	1	Pipette Tips 5ml
			<ul style="list-style-type: none"> ☐100 pcs of 5-ml pipette tips per pack
59	pack	2	Proteinase K
			Molecular biology grade, DNase-Free, RNase-Free
			For general digestion of proteins
			Lyophilized form
			Pack of at least 100mg with appropriate buffer
60	pack	1	Qualitative filter paper, Grade 1 or its equivalent
			<ul style="list-style-type: none"> ☐Material: cellulose filters, circles ☐Pack Size: 100 pcs ☐Parameter: 0.25 psi wet burst ☐Diameter :25mm ☐Thickness: 180µm ☐Pore size: 11µm (Particle retention) ☐Basis weight: 87g/m²
61	btls	5	Reagent Bottles
			<ul style="list-style-type: none"> ☐Autoclavable ☐amber bottle with ground glass cover ☐250 mL capacity
62	box of 50's	2	Scalpel Blade
			<ul style="list-style-type: none"> ☐Stainless steel ☐100 blades/box
63	pcs	2	Scalpel Handle
			<ul style="list-style-type: none"> ☐#4, Stainless steel
64	pack	4	Self standing centrifuge tubes
			Desired product: 50ml Plastic Centrifuge Tubes with Screw Cap, CBTONE 50 Pack Self-Standing Plastic 50ml Test Tube Polypropylene Conical Tubes with Cap, Graduated Marks
			Specifications:
			Cap typeScrew cap
			Capacity (Metric) 50 mL
			Length (Metric)115 mm
			Material Polypropylene (PP)
			Dimension (D*L)1.0 x 4.5inch / 25 x 114mm
65	btl	1	Sodium dodecyl sulfate (SDS)

			<ul style="list-style-type: none"> ☐Molecular biology grade, at least ≥99.0% assay quality
			<ul style="list-style-type: none"> ☐Suitable for protein analysis and electrophoresis
			<ul style="list-style-type: none"> ☐Dnase-free and Rnase-free
			<ul style="list-style-type: none"> ☐Phosphatase-free and proteases-free
			<ul style="list-style-type: none"> ☐Bottle of at least 500g
66	pieces	1	Stainless Steel Laboratory Microspatula
67	kit	1	Taq Universal SYBR Green Supermix
			Certified molecular biology grade
			For qPCR/rtPCR analysis
			Ready to use reaction mix
			The mixture includes an enzyme, dNTPs, MgCl ₂ , SYBR Green I dye, enhancer, stabilizer
			Size: 2 x 1mL (200 x 20uL rxn)
68	pcs	2	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
			☐Stainless steel
69	boxes	1	Test Tubes, 13 x 100mm, 250pcs/box
			borosilicate glass, heat resistant, rimless
70	btl	1	Toluene
			☐(CAS 108-88-3)
			☐2.5 liters,
			☐Analytical Grade
			☐99.5%
71	pc	1	Volumetric Flask 100ml
			☐100 mL (±0.01 mL)
			☐Borosilicate glass with glass standard taper stopper,
			☐Class A
			☐Calibrated
72	pc	1	Volumetric Flask 10ml
			☐10 mL (± 0.02 mL)
			☐Class A
			☐Borosilicate Glass with Glass Standard Taper Stopper
			☐calibrated
73	unit	2	Wall-mounted Cupboard/Cabinet
			Purpose: Laboratory storage cabinet
			Material: High quality galvanized steel sheet
			Surface: Electrospayed with epoxy-resin
			Door panel: High quality galvanized steel with Glass Door
			Handle: Aluminum dark type handle
			Dimension: at least 1240 x 380 x 570 mm
			Doors: 3-door cabinet
			Layer per door: one removable shelf
			Color: must be WHITE On-site installation included
74	pc	2	Wash Bottle, 250mL cap.
			☐Material: Plastic (good quality)

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

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

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid in the amount of *at least 50% of the ABC or at least One Million Nine Hundred Forty Thousand Two Hundred Twenty Pesos (PhP 1,940,220.00)*;

or

Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC* or *at least One Million Nine Hundred Forty Thousand Two Hundred Twenty Pesos (PhP 1,940,220.00)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least Nine Hundred Seventy Thousand One Hundred Ten Pesos (PhP 970,110.00)*;

and

- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;

or

Original copy of Notarized Bid Securing Declaration; **and**

- (e) Conformity with the Technical Specifications; **and**
 (f) Schedule of Requirements/production and delivery schedule; **and**
 (g) Manpower requirements; **and**
 (h) After-sales service/parts; **and**

- (i) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (j) The Supplier’s audited financial statements, showing, among others, the Supplier’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**

- (k) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 3,880,440.00**);

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 388,044.00**).

II. FINANCIAL COMPONENT ENVELOPE

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

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

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

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

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII. The second folder should contain all requirements under Financial Component checklist.
4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at jessamine.ecleo@vsu.edu.ph before the deadline (November 3, 2022; 1:30 PM).



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