



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Laboratory Equipment for Rootcrops Genomics (GOODS-22-01) *(early procurement)*

Government of the Republic of the Philippines

**November 25, 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)

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 FOR ROOTCROPS GENOMICS

- The *Visayas State University* through the *GF 2022* intends to apply the sum of *Seventeen Thousand Seventy-Six Thousand Five Hundred Pesos (PhP 17,076,500.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Equipment for Rootcrops Genomics (GOODS-22-01)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University*, through the *GF 2022* 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	Pipette Sets	sets	5	100,000.00	500,000.00
	Description: Fully Autoclavable Pipetter Set with Carousel Stand				
	Specs:				
	Volume Size includes 0.2-2ul, 1-10ul, 2-20ul, 10-100ul, 20-200ul, 100-1000ul Package of Fully autoclavable pipettors (121°C for 20 minutes), Easily recognizable push buttons Colored code Mushroom-shaped push bottom				
	Triple-speed turbo dial volume with lever lock				
2	Mini CENTRIFUGE	units	2	40,000.00	80,000.00
	☐Description:				
	◀Quiet & Compact				
	◀Spins multiple micro sample tube sizes				
	◀Ideal for Quick Spin-Downs				
	◀Fast Starting & Stopping				
	☐Specifications:				
	◀RPM: 6,600 rpm				
	◀RCF: 2,200 xg				
	◀Microtube Rotor: 2 x 8-strips or 16 x 0.2mL tubes				
	◀Dimensions (WxDxH): +4°C to 50°C				
	◀Electrical: 100V to 230VAC, 50/60 HZ, 0.1 A				
	◀Warranty: 1 year				
3	Microcentrifuge with Refrigeration	units	2	800,000.00	1,600,000.00
	Accel/Decel Profiles: acceleration up to 21,000 x g in 12 seconds				

	Noise Level: <50dbA				
	Run Time:1 to 99min (1min increments); HOLD				
	Temperature Range:-9° to +40°C				
	Max. RCF: 21,100 x g				
	Refrigerated: Yes				
	Type: Benchtop Centrifuge				
	Capacity:24 x 1.5/2mL				
	Max. Speed: 14,000 to 14,999 rpm				
	CSA certified, CE IVD compliant, Certified Biosafety; IEC 61010-1, IEC 61010-2, IEC 61010-020				
	with extended warranty				
4	Laminar Flow Hood	units	2	200,000.00	400,000.00
	Specs:				
	Airflow Design: Vertical, positive pressure laminar airflow				
	Depth: 813 mm				
	Hood Design: Benchtop				
	Filter Type: HEPA				
	Frame Material: 304 Stainless Steel				
	Max Opening: 959 mm H				
	Side Panels: Static-Dissipative PVC				
	Sash Design: Manual/Tilt-Up				
	Sash Opening: at least 406 mm				
	Work Area Dimensions: 1,826 mm W x 810 mm D x 1,067 mm H				
	Electrical Specifications: 120 V, 6 A, 720 W, 50/60 Hz				
	Meets or exceeds ISO 5 / Class 100 for cGMP, IEST, ASTM and ISO 14644-1 standards				
	Background noise (registers under 50 dBA at 12" (305 mm) from filter face)				
	Inclusions:				
	Hood frame				
	fan filter unit				
	LED lighting				
	Delivery and installation				
5	Autoclave High Steam Sterilizer	units	2	200,000.00	400,000.00
	☑(High Pressure Steam Sterilizer) , Automatic, Vertical Autoclave				
	☑Portable, Top-loading Autoclave				
	☑Space-saving design with lid opening upward.				
	☑Dual-sensing lid interlock prevents lid opening when chamber is pressurized or when temperature exceeds 97°C.				
	☑One-touch lever to easily open and close				

	chamber lid				
	☑Door-closure sensor provides a prompt and the cycle will not start unless the door is closed properly.				
	☑In-process display shows status and progress of sterilization cycle				
	☑Agar sterilization mode for sterilizing agar and then automatically maintaining it at liquid temperature				
	☑Sterilization timer is activated only when load temperature reaches set temperature				
	☑Temperature Range: 105°C to 135°C				
	☑Agar warming range: After sterilization, agar can be maintained from 45°C to 60°C (programmable) for up to 24 hours to prevent coagulation.				
	☑Sterilization Timer: 1 to 300 minutes				
	☑Cooling Fan: Switch to turn fan on or off				
	☑Safety Features: Circuit breaker with GFCI, low-water power cut-off, over-temp power cutoff, over-pressure power cut-off, safety valve, sensor for improper lid closing				
	☑Power Requirements: 220V, 50/60 Hz, single phase				
	☑Power Consumption: 3.9 Kw				
6	Basic Bench pH meters with replaceable electrode and buffer	unit	2	60,000.00	120,000.00
	☑Accuracy temperature: $\pm 0.3^{\circ}\text{C}$				
	☑Accuracy pH: ± 0.1				
	☑Electrical requirements: AC/DC 9 V adapter (220 VAC, 60 Hz)				
	☑Resolution (mV): 0.1 mV (± 199.9 mV); 1 mV beyond ± 200 mV				
	☑Temp probe calibration: offset in 0.1°C increments; offset range $\pm 5^{\circ}\text{C}$				
	☑Range pH: 0 to 14				
	☑Accuracy mV: ± 0.2 mV (± 199.9 mV), ± 2 mV beyond ± 200 mV				
	☑Calibration points: 1 to 5 points with automatic buffer recognition (ABR)				
	☑Include 13-620-AE6 3-in-1 single junction gel pH/ATC electrode				
	☑Memory: 100 datasets				
	☑Resolution temperature: 0.1°C				
	☑Temperature compensation: automatic or manual (0 to 100°C)				
	☑Temperature range metric: 0.0 to 100.0°C				
	☑Range mV: ± 1999 mV				

	☑Resolution pH: 0.01				
	☑Power source: 220 - 240 50/60 Hz				
	☑Warranty: 2-year meter warranty; 6-month electrode warranty				
7	Multi-position Hot Plate Stirrer	pc	1	95,000.00	95,000.00
	☑3 independent heating/stirring positions				
	☑600 x 270 mm footprint				
	☑robust aluminum / silicon alloy top plates				
	☑Stirring speed: 1500rpm				
	☑Volume: 15 L				
	☑3 x 25 mm PTFE coated stir bars				
8	Analytical Balance, at least 220g capacity	unit	2	53,000.00	106,000.00
	☑4 decimal places				
	☑Automatic Internal Calibration, LCD back-lit display				
	☑Capacity: at least 220g				
	☑Readability: 0.1 mg				
	☑Repeatability (std dev): 0.1 mg				
	☑Linearity (+/-): 0.2 mg				
	☑Pan size (mm/inch): 90 Ø/3.5Ø				
	☑Response time: at least 3 sec				
	☑Calibration: Perfect Self Auto Calibration (temperature / time /power on)				
	☑Display: Bright LCD Display with LED backlight				
	☑Unit of measure: gram, Milligram				
	☑Tare Range: Full				
	☑Operating Temperature: 10°C to 40°C				
	☑Power Supply: AC Adapter 100V- 240V +/- 20% 50-60Hz				
9	Microscope with Infinity Corrected Optics and Eyepiece Camera	unit	1	150,000.00	150,000.00
	☑MICROSCOPE				
	◀Optical System: UIS2 (Universal infinity-corrected) optical system				
	◀6V/30W halogen bulb				
	◀100-120V/220-240~0.85/0.45A 50/60Hz				
	◀Focusing: Stage height movement by roller guide				
	—Fine adjustment scale:2.5microns per gradation				
	—Fine adjustment stroke: 0.3microns per turn				
	—Total stroke: 20microns				
	◀Revolving Nosepiece: Fixed quadruple nosepiece with inward tilt				
	◀Objectives: Plan C Achromat Objectives				

	—4xNA: 0.10 W.D.: 27.8 mm				
	—10xNA: 0.25 W.D.: 8.0 mm				
	—40xNA:0.65 W.D.: 0.6 mm				
	—100xOil NA: 1.25 W.D.: 0.13 mm				
	◀Binocular Observation Tube: Field Number: 20				
	◀Tube inclination: 30 degree				
	◀Interpupillary distance adjustment range: 48mm-75mm				
	◀Stage: Size: 188mm(W) x 134mm(D)				
	◀Movement range: 76mm X-direction x 50mm Y-direction				
	◀Stage: Size: 188mm(W) x 134mm(D)				
	◀Movement range: 76mm X-direction x 50mm Y-direction				
	◀Specimen holder: Double slide holder				
	◀Rubber grip: Equipped as standard				
	◀Condenser: Type: Abbe condenser, with built-in daylight filter				
	◀NA: 1.25 with oil immersion				
	◀Aperture in diaphragm: Built-in				
	📷EYEPIECE CAMERA				
	◀Optics				
	—Built-in magnification: 25x				
	—Lens type: Glass with Anti-Reflection coating				
	◀Sensor				
	—Sensor Type: CMOS				
	—Resolution: 5 Megapixel (2592x1944)				
	—Maximum frame rate: 30 fps				
	◀Dimensions				
	—Mounting type: Inside ocular/tube & c-mount				
	—Ocular inner diameter: 23, 30, 30,5mm				
	—Dimensions: 80 mm (H) x 32 mm (D)				
	◀Compatibility				
	—Interface: USB 2.0				
	—Operating system: Windows XP, Vista, 7,8, & 10, MacOS 10.4 and up				
	—Inclusion of software				
10	DeepFreezing Freezer/Ultra-Low-Temperature Freezer	unit	1	1,150,000.00	1,150,000.00
	Cooling: Direct cooling				
	Defrost mode Manually				
	Cooling agent FCKW/HFCKW-free				
	Noise level dB(A)50				
	Cooling performance (°C) -86				

	Recovery time min ≤ 10				
	Control Microprocessor				
	Display 7" Touch screen LCD				
	Mains connection (V/Hz) 220/60				
	Compressor capacity (W) 1000				
	Electric load (A) at least 5.5				
	Volume (Liter) 300 - 400				
	Useful dimensions (W x D x H) (mm) at least 440x696x1266				
	General dimensions (W x D x H) (mm) 785x1041x1947				
	Container load (20'/40') 10/20				
	With at least 1 year warranty				
	Alarm System:				
	High/Low temperature alarm Overheat				
	cooling compressor Power breakdown				
	High/Low voltage				
	Sensor failure Accu weak High ambient temperature Door alarm				
	Stands Wall openings, Trays /Inner door, USB interface, RS 485 interface				
11	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity, Upright	unit	2	70,000.00	140,000.00
	☑Temperature range: +2°C to +8°C				
	☑Inner cabinet: white epoxy painted				
	☑Inner shelves: epoxy plastic coated steel rod				
	☑CFC Free Eco-friendly refrigerant R 134a				
	☑CFC Free, environment friendly Cyclopentene foaming PUF insulation				
	☑No frost, fan-assisted cooling circulation system				
	☑Ultra-fast pull down, auto defrost with self-evaporating drip tray				
	☑Rear-to-front hot air anti-condensation				
	☑Digital temperature controller				
	☑Double glazed glass doors				
	☑Full length illumination				
	☑Fitted with castors, front two with brakes				
	☑Low noise, green technology and energy saving				
	☑Self-closing hinge doors				
	☑Lock as standard				
	☑Input 220/240V, 50/60 Hz with power cord & plug				
	☑Automatic voltage stabilizer with time delay restart				
	☑gross volume: ≥ 300 L				

12	Liquid Nitrogen Transfer Vessel	pc	3	78,500.00	235,500.00
	type: LN2 Transfer Vessel, capacity: 5L, Lightweight aluminum dewars assure low- static evaporation rates				
13	Multipipette (0.5-10uL)	unit	1	90,000.00	90,000.00
	Description: Manual multichannel pipette				
	Specs:				
	Compatible with standard pipette tips				
	Increments 0.02µL				
	Number of Channels 12				
	Volume (Metric) 0.5 to 10 µL				
	Autoclavable: yes				
14	Multipipette (120-1200uL)	unit	1	90,000.00	90,000.00
	Description: Manual multichannel pipette				
	Specs:				
	Compatible with standard pipette tips				
	Increments 10µL				
	Number of Channels 8				
	Volume (Metric) 120 to 1200 µL				
	Autoclavable: yes				
15	Heating Block with Shaker	unit	1	150,000.00	150,000.00
	movement (orbital);				
	speed range (200-1500 rpm);				
	temp range (5-100 degrees C);				
	capacity (24 x 1.5mL)				
	Power: 220V, 60Hz				
16	Real-Time qPCR	unit	1	3,000,000.00	3,000,000.00
	Specs:				
	<u>Machine</u>				
	Fixed 96-well sample block (reduced- mass)				
	Retractable lid				
	Sample size: 96-wells				
	Sample volume: 1 µL – 50 µL				
	Heating and cooling method: Peltier				
	Lid heating: 30-110°C				
	Temperature range: 4-100°C				
	Maximum ramp rate: 5 °C/sec				
	Average ramp rate: 3.3 °C/sec				
	Thermal accuracy: ±0.2°C				
	Thermal uniformity: ±0.3 well-to-well after 10 sec of arrival at target				
	Operational gradient temperature: 30 °C – 100 °C				
	Gradient programmable span: 1 °C – 24 °C				
	Touch system; with adjustable screen				

	from 15°-22°				
	Capable of stand-alone operation				
	Automated lid that opens, closes and can apply sealing force to reaction wells				
	<u>Optical Detection:</u>				
	Multiplex analysis: up to 5 targets per well				
	Wavelength Range: 450 nm – 730 nm				
	Scan Time				
	o All channels: 12 sec				
	o Single-channel fast scan: 3 sec				
	Dynamic range: 10 orders of magnitude				
	Sensitivity: Detects 1 copy of target sequence in human genomic DNA				
	<u>Software:</u>				
	Operating System: Windows 10 compatible				
	Data analysis modes: gene expression analysis by relative quantity (ΔCq) or normalized expression ($\Delta\Delta Cq$);				
	Data analysis options: include bar chart, box and whisker plot, dot plot, clustergram statistics include t-tests and analysis of variance (ANOVA)				
	Capable of generating customized temperature protocol based on enzyme type, PCR product length, and primer annealing temperature				
	With reference gene selection tool				
	Image export: Export images at a resolution up to 600 dpi;				
	<i>Inclusions:</i>				
	One (1) unit of 3 kVA AVR				
	One (1) unit of 3 kVA UPS				
	One (1) unit of laptop				
	One (1) unit of printer				
17	Thermal Cycler	unit	2	700,000.00	1,400,000.00
	capacity (96 x 0.2 mL tubes or 1 x 96-well plate);				
	temp range (4-100C)				
	gradient range (30-100C);				
	temp differential range (1-25C);				
18	PCR Plate Thermal Sealer	unit	1	300,000.00	300,000.00
	<i>Specs:</i>				
	Timer: 0.5 to 10 s (increments of 0.1 sec)				
	Accuracy: ± 1.0 °C				
	Temperature Range: 100°C to 190°C				

	Temperature Uniformity: ± 1.0 °C				
	Voltage: 100–240 VAC, 50–60 Hz				
	<i>Inclusions:</i>				
	Delivery and installation				
	At least 2 years warranty				
19	Horizontal Electrophoresis System	unit	2	300,000.00	600,000.00
	<i>Specs:</i>				
	<u>Machine:</u>				
	Open system and compatible to any existing precast gel				
	15 x 10 cm UV-transparent acrylic plastic gel tray with fluorescent ruler				
	With 15- and 20- well combs				
	Gel tank: molded clear plastic; has lid with cables				
	Gel buffer: 650 mL – 900 mL				
	Banana plugs: gold-plated brass, 4.4 cm length				
	Electrodes: platinum, 0.25 mm in diameter				
	Electrical leads: nickel silver				
	Gel caster: polycarbonate, 0.64 cm silicon foam; with leveling bubble				
	<u>Power Supply:</u>				
	3-digit display				
	Output specifications: 10 V – 300 V; 4mA – 400 mA; 75 W (maximum)				
	4 pair recessed banana jacks in parallel				
	Has pause mode for editing parameters, or stopping and resuming the run				
	Power failure detection in timed mode; when power returns run will complete				
	Automatic detection of rapid changes in resistance and no load conditions				
	Compact and stackable				
	Flip-down legs to change viewing angle				
	<i>Inclusions:</i>				
	Power supply				
	One (1) unit of 1 kVA AVR				
	agarose gel (molecular grade)				
	50x TAE buffer				
	100 bp DNA ladder with glycerol, bromophenol blue and xylene cyanol				
	2-in-1 non-toxic visualization dye (loading dye and fluorescent dye)				
20	Vertical Electrophoresis System	unit	1	300,000.00	300,000.00
	<i>Specs:</i>				
	<u>Machine:</u>				

	Tank: Polycarbonate				
	Upper and lower electrode: Polycarbonate				
	Lid: Polycarbonate				
	Sample Loading guides: Polycarbonate				
	Number of gels: 1-2				
	Gel size: 13.3 x 8.7 cm (WxL)				
	Gel tank: molded clear plastic; has lid with cables				
	Gel buffer: 1000 mL				
	Gel caster: polycarbonate, 0.64 cm silicon foam; with leveling bubble				
	Typical running conditions: 200V constant				
	Power Supply:				
	Programable output (5-250 V, 0.01-3.0 A, 1-300W)				
	Display: 2-line, 16 character LCD programming				
	Constant voltage, constant power or constant power output				
	Timer: 1 min-99hr, 59min				
	With overload/short-circuit detection; overvoltage protection;				
	4 pair recessed banana jacks in parallel				
	Input power (9-120 or 198-246 VAC, 50/60 Hz, auto switching)				
	Inclusions:				
	Power supply				
	Sample loading guides				
	Combs (18 and 26)				
	One (1) unit of 1 kVA AVR				
	agarose gel (molecular grade)				
	50x TAE buffer				
	100 bp DNA ladder with glycerol, bromophenol blue and xylene cyanol				
	2-in-1 non-toxic visualization dye (loading dye and fluorescent dye)				
21	Gel Documentation System	unit	1	1,750,000.00	1,750,000.00
	Specs:				
	SUPPORTING APPLICATIONS				
	Fluorescence: Yes				
	Colorimetry: Yes				
	Gel Documentation: Yes				
	AUTOMATION CAPABILITIES				
	automatically recognizes application-specific tray				

	adjusts imaging parameters and software options accordingly				
	auto-focus (precalibrated)				
	HARDWARE SPECIFICATIONS				
	Touch-screen Functionality: Multi-touch capable				
	Display resolution: 1,024 x 768 pixels				
	Maximum Image Area (W x H): at least 21 x 14 cm				
	Pixel Size: 2.4 x 2.4 μm				
	Bit Depth (gray levels): 65,536				
	Excitation Source: Trans-UVB (Standard)				
	Epi-white (Standard)				
	Emission Filter 535-645 nm (standard)				
	Data Output: 16-bit or 8-bit: SCN, TIFF, JPEG image file				
	Operating Voltage: 100-240 VAC, 50-60 Hz				
	Operating Temperature: 10-28° C				
	Operating Humidity: 20-80% relative humidity (non-condensing)				
	Inclusions:				
	Imaging System				
	Compatible Software				
	UV/Stain-free Tray for Imaging System				
	Computer				
	Printer				
	Automatic Voltage Regulator (2kVa)				
	Uninterruptible Power Supply (2kVa)				
	At least 2 years warranty				
	Delivery and after sales services				
22	Benchtop Incubator Shaker	unit	1	300,000.00	300,000.00
	Specs :				
	CO2 control: (± 0.1 %)				
	CO2 range (0.2–20 %)				
	CO2 stability at 5% CO2 (± 0.2 %)				
	CO2 uniformity (± 0.1 %)				
	High temperature disinfection (4 hours at 120°C)				
	In-line gas regulator (standard)				
	Number of shelves -2				
	Number of shelving racks (2)				
	Movement type (orbital)				
	Orbit (2.5 cm (1in))				
	Speed range (25 – 400 rpm)				
	Temperature control (± 0.1 °C)				
	Temperature stability at 37°C (± 0.1 °C)				
	Capacity (170 L)				

	Display (Touchscreen)				
	Timer (Continuous)				
	Temperature range (Ambient +4°C to 50°C)				
	Audible and visual alarms (yes)				
	Temperature uniformity ($\pm 0.25^{\circ}\text{C}$ at 37°C)				
	Balanced drive mechanism (Triple-eccentric with permanently lubricated ball bearings)				
	Motor type (Solid state, DC brushless motor)				
	Power: 220V, 60Hz				
	Inclusions:				
	Automatic Voltage regulator				
	Two (2) year warranty				
	Delivery and installation				
	Training and aftersales services				
23	Water Bath with Hood	unit	2	80,000.00	160,000.00
	with hood; capacity (2L);				
	temp uniformity ($\pm 0.2^{\circ}\text{C}$);				
	temp stability ($\pm 0.1^{\circ}\text{C}$ at 70°C);				
	max temp (100°C);				
	timer (yes)				
24	Convection Oven	unit	1	100,000.00	100,000.00
	convection type;				
	temp range (ambient, $10-200^{\circ}\text{C}$);				
	temp stability ($\pm 0.1^{\circ}\text{C}$ at 100°C);				
	capacity (2cu.ft/ 30000mL);				
	programable temperature				
	Power: 220V, 60Hz				
25	Centrifuge	unit	1	500,000.00	500,000.00
	speed range (200rpm-18000rpm);				
	max rcf (23, 542 x g);				
	refrigeration range (-20°C - -40°C);				
	noise level (<60 dB);				
	Frequency (50/60 Hz)				
	Rotor (Swinging bucket rotor- 4x750ml) with Buckets, ClickSeal				
	Type (Benchtop Centrifuge)				
	Voltage (220/240 V)				
	Capacity (148 x 5/7 mL tubes, 84 x 9/10 mL Tubes, 56 x 15 mL Conical Tubes, 28 x 50 mL Conical Tubes, at least 4 Microplates; 4 x 1000 mL bottles)				
	Refrigerated (Yes, CFC-Free)				
	Temperature Range (-10°C to $+40^{\circ}\text{C}$, $\pm 2^{\circ}\text{C}$)				
	Display (Full Color Touch Screen Interface)				
	Timer (Option to count up or down)				

	Certifications/Compliance – (EN/UL/IEC 61010-1EN/UL/IEC 61010-2EN/UL/IEC 61326-1EN/UL/IEC 61326-2FCC part 15)				
	Drive System (Direct, Brushless Induction Low Profile)				
	Run Time (Up to 99 hr. 59 min. 59 sec.)				
	Standards (ISO 14971, ISO 13485, ISO 9001)				
	Inclusions:				
	Rotor Buckets and accessories				
	Tube and microplate adapters				
	User Manual				
	At least 2 years warranty				
	Installation and after sales services				
26	Safety Storage Cabinet	unit	2	60,000.00	120,000.00
	dimentions (915mmx459mmx459mm);				
	lockable;				
	material (stainless steel)				
27	Fumehood	unit	2	300,000.00	600,000.00
	Laboratory fumehood;				
	at least 1800W*850D*2350L (mm);				
	material (steel);				
	worktop material (epoxy resin, phenolic resin, ceramic, stainless steel);				
	floor mounted structure				
	with Installation and exhaust duct				
	Manual type operation				
	Power: 220V, 60Hz				
28	Water Purification System	unit	1	1,500,000.00	1,500,000.00
	Specs:				
	Type: Ultra pure water purification system)				
	Feedwater source: potable tap water				
	Certifications/compliance (UL, Cul, ISO 9001 v.2000, ISO 14001)				
	Contaminant rejection (greater than 99%)				
	Product water types: Type 1 and Type 3				
	Feed Water Conductivity at 25°C < 2000 µS/cm				
	Feed Water TOC < 2000 ppb				
	Feed Water Pressure 1 - 6 bar				
	Feed Water Temperature 5 - 35°C				
	Feed Water Chlorine* < 3 ppm				
	Feed Water Fouling Index** < 12				
	Feed water pH 4 to 10 pH units				
	Feed Water Connection 1/2 in Gaz M				
	System Specs:				
	Electric power supply voltage 100 - 230 V +/- 10%				

	Electric power supply frequency 50 - 60 Hz				
	Main unit data connection Ethernet (RJ45)				
	Water Production and Delivery:				
	Type 1 Water Delivery				
	Manual dispense flow rate (between 50 and 2000 mL/min)				
	Automatic dispense				
	Volumetric dispense accuracy (3% for volumes between 250 mL and 60 L)				
	Volumetric dispense dispersion (CV < 3% for volumes between 250 mL and 60 L)				
	Type 3 Water Production and Delivery				
	Production Flow Rate (8 L/hour) D				
	Delivery Flow rate				
	From tap: up to 2.5 L/min				
	From optional pump: up to 15 L/min at 1 bar				
29	Dishwasher	unit	1	40,000.00	40,000.00
	Description: Laboratory Dishwasher for glassware				
	Specs:				
	Labware Type: Glasswares				
	Door Style: Solid Door				
	Configuration: ADA Undercounter				
	Integral Heater: Yes				
	Electrical Specifications: 115 V, 16 A, 1 Ph, 60 Hz				
	Placement: Free standing				
	Water temperature: up to 93° C				
	size (60m stainless steel; placement (freestanding);				
	with built-in display (LED);				
	water consumption (10L);				
	service capacity (more than 12);				
	energetic calification (A);				
	installation type (integrated)				
	Inclusions:				
	Installation				
30	Mini PCR plate spinner	unit	2	50,000.00	100,000.00
	Specs:				
	dual position vertical rotor				
	compatible with 96-well, 384-well, skirted and non-skirted plates				
	acceleration: 2500 rpm				
	capacity: 2 PCR plates				
	120V				
	Inclusions:				

	Adapter for PCR plate spinner				
	At least 2 year warranty				
	Delivery and after sales services				
31	Cryogenic Storage System	unit	1	1,000,000.00	1,000,000.00
	Specs:				
	Vessel Application (Cryogenic Storage)				
	Type (manual fil LN2 Dewar)				
	Low Liquid Nitrogen Alarm: Yes				
	2 mL Vial Capacity: -6000				
	Vial Capacity Range: (5,001 to 10,000)				
	Material: (Aluminum)				
	Design: (Free Standing)				
	Lockable: Yes				
	Rack System: Yes				
	Liquid Nitrogen Capacity: 184 L				
	Static Hold Time: 185 days				
	Evaporation Rate: 1 L/day				
	Neck Diameter: 216 mm dia.				
	with nitrogen level monitor;				
	insulation (vacuum);				
	monitoring options (ultrasonic level);				
	Inclusions:				
	Compatible storage racks				
	Vial box (1.5ml and 2ml)				
	Cryo vials (1.2mL)				
	Wheeled cart for vessel				
	At least 2 years product warranty				
	Delivery and after sales services				
		TOTAL:			17,076,500.00

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 *25 October – 25 November 2021 until 8:59 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 Twenty-five Thousand Pesos (PhP 25,000.00). 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 *November 9, 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 *25 November 2021 until 8:30 AM*. Late bids shall not be accepted.
8. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through preferred couriers. A proof (e.g. courier receipt/waybill, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
10. Bid opening shall be on *25 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.

11. This procurement project is part of the early procurement activities (EPA) of VSU for 2022 projects. Procurement activities from advertisement until recommendation of award to the HoPE shall be conducted in 2021 but issuance of award to the winning bidders shall be done in 2022 upon the release of 2022 General Appropriations Act from DBM.
12. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in

accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

13. For further information, please refer to:

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

14. You may visit the following websites:

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

October 22, 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 for Rootcrops Genomics*, with identification number *GOODS-22-01*.

The Procurement Project (referred to herein as “Project”) is composed of *31 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 *Seventeen Thousand Seventy-Six Thousand Five Hundred Pesos (PhP 17,076,500.00)*.

2.2. The source of funding is: NGA, the General Appropriations Act 2022.

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

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

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. <i>Laboratory Equipment or Scientific Equipment</i> b. completed within two (2) years prior to the deadline for the submission and receipt of bids.
7.1	Subcontracting is not allowed.
12	The price of the Goods shall be quoted DDP <i>VSU Main, Visca, Baybay City, Leyte</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: <ul style="list-style-type: none"> a. The amount of not less than <i>Three Hundred Forty-One Thousand Five Hundred Thirty Pesos (PhP 341,530.00)</i> or two percent (2%) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>Eight Hundred Fifty-Three Thousand Eight Hundred Twenty-Five Pesos (PhP 853,825.00)</i> or five percent (5%) of ABC if bid security is in Surety Bond.
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).</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 term applicable to this Contract is delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p style="text-align: center;"><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> <i>Email address: alicia.flores@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>

	<p>Spare Parts –</p> <p>The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <p>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.</p> <p>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.</p> <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within 1 month of placing the order.</p>
	<p>Packaging –</p> <p>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.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p>

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

	<p>Intellectual Property Rights –</p> <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	sets	5	Pipette Sets	All Items Should Be Delivered Within 90 Calendar Days From Receipt Of Notice To Proceed And Purchase Order
2	units	2	Mini CENTRIFUGE	
3	units	2	Microcentrifuge with Refrigeration	
4	units	2	Laminar Flow Hood	
5	units	2	Autoclave High Steam Sterilizer	
6	unit	2	Basic Bench pH meters with replaceable electrode and buffer	
7	pc	1	Multi-position Hot Plate Stirrer	
8	unit	2	Analytical Balance, at least 220g capacity	
9	unit	1	Microscope with Infinity Corrected Optics and Eyepiece Camera	
10	unit	1	DeepFreezing Freezer/Ultra-Low-Temperature Freezer	
11	unit	2	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity, Upright	
12	pc	3	Liquid Nitrogen Transfer Vessel	
13	unit	1	Multipipette (0.5-10uL)	
14	unit	1	Multipipette (120-1200uL)	
15	unit	1	Heating Block with Shaker	
16	unit	1	Real-Time qPCR	
17	unit	2	Thermal Cycler	
18	unit	1	PCR Plate Thermal Sealer	
19	unit	2	Horizontal Electrophoresis System	
20	unit	1	Vertical Electrophoresis System	
21	unit	1	Gel Documentation System	
22	unit	1	Benchtop Incubator Shaker	
23	unit	2	Water Bath with Hood	
24	unit	1	Convection Oven	
25	unit	1	Centrifuge	
26	unit	2	Safety Storage Cabinet	
27	unit	2	Fumehood	
28	unit	1	Water Purification System	
29	unit	1	Dishwasher	
30	unit	2	Mini PCR plate spinner	
31	unit	1	Cryogenic Storage System	

Section VII. Technical Specifications

Technical Specifications

Item No.	Unit	Qty	Description	STATEMENT OF COMPLIANCE
1	sets	5	Pipette Sets	<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 issuances.]</i>
			Description: Fully Autoclavable Pipetter Set with Carousel Stand	
			Specs:	
			Volume Size includes 0.2-2ul, 1-10ul, 2-20ul, 10-100ul, 20-200ul, 100-1000ul	
			Package of Fully autoclavable pipettors (121°C for 20 minutes),	
			Easily recognizable push buttons	
			Colored code Mushroom-shaped push bottom	
			Triple-speed turbo dial volume with lever lock	
2	units	2	Mini CENTRIFUGE	
			☐Description:	
			◀Quiet & Compact	
			◀Spins multiple micro sample tube sizes	
			◀Ideal for Quick Spin-Downs	
			◀Fast Starting & Stopping	
			☐Specifications:	
			◀RPM: 6,600 rpm	
			◀RCF: 2,200 xg	
			◀Microtube Rotor: 2 x 8-strips or 16 x 0.2mL tubes	
			◀Dimensions (WxDxH): +4°C to 50°C	
			◀Electrical: 100V to 230VAC, 50/60 HZ, 0.1 A	
			◀Warranty: 1 year	
3	units	2	Microcentrifuge with Refrigeration	
			Accel/Decel Profiles: acceleration up to 21,000 x g in 12 seconds	
			Noise Level: <50dbA	
			Run Time:1 to 99min (1min increments); HOLD	
			Temperature Range:-9° to +40°C	
			Max. RCF: 21,100 x g	
			Refrigerated: Yes	
			Type: Benchtop Centrifuge	
			Capacity:24 x 1.5/2mL	
			Max. Speed: 14,000 to 14,999 rpm	
			CSA certified, CE IVD compliant, Certified Biosafety; IEC 61010-1, IEC 61010-2, IEC 61010-020	
			with extended warranty	

4	units	2	Laminar Flow Hood	
			Specs:	
			Airflow Design: Vertical, positive pressure laminar airflow	
			Depth: 813 mm	
			Hood Design: Benchtop	
			Filter Type: HEPA	
			Frame Material: 304 Stainless Steel	
			Max Opening: 959 mm H	
			Side Panels: Static-Dissipative PVC	
			Sash Design: Manual/Tilt-Up	
			Sash Opening: at least 406 mm	
			Work Area Dimensions: 1,826 mm W x 810 mm D x 1,067 mm H	
			Electrical Specifications: 120 V, 6 A, 720 W, 50/60 Hz	
			Meets or exceeds ISO 5 / Class 100 for cGMP, IEST, ASTM and ISO 14644-1 standards	
			Background noise (registers under 50 dBA at 12" (305 mm) from filter face)	
			Inclusions:	
			Hood frame	
			fan filter unit	
			LED lighting	
			Delivery and installation	
5	units	2	Autoclave High Steam Sterilizer	
			☑(High Pressure Steam Sterilizer) , Automatic, Vertical Autoclave	
			☑Portable, Top-loading Autoclave	
			☑Space-saving design with lid opening upward.	
			☑Dual-sensing lid interlock prevents lid opening when chamber is pressurized or when temperature exceeds 97°C.	
			☑One-touch lever to easily open and close chamber lid	
			☑Door-closure sensor provides a prompt and the cycle will not start unless the door is closed properly.	
			☑In-process display shows status and progress of sterilization cycle	
			☑Agar sterilization mode for sterilizing agar and then automatically maintaining it at liquid temperature	
			☑Sterilization timer is activated only when load temperature reaches set temperature	
			☑Temperature Range: 105°C to 135°C	

			<ul style="list-style-type: none"> Agar warming range: After sterilization, agar can be maintained from 45°C to 60°C (programmable) for up to 24 hours to prevent coagulation.
			<ul style="list-style-type: none"> Sterilization Timer: 1 to 300 minutes
			<ul style="list-style-type: none"> Cooling Fan: Switch to turn fan on or off
			<ul style="list-style-type: none"> Safety Features: Circuit breaker with GFCI, low-water power cut-off, over-temp power cutoff, over-pressure power cut-off, safety valve, sensor for improper lid closing
			<ul style="list-style-type: none"> Power Requirements: 220V, 50/60 Hz, single phase
			<ul style="list-style-type: none"> Power Consumption: 3.9 Kw
6	unit	2	Basic Bench pH meters with replaceable electrode and buffer
			<ul style="list-style-type: none"> Accuracy temperature: $\pm 0.3^{\circ}\text{C}$
			<ul style="list-style-type: none"> Accuracy pH: ± 0.1
			<ul style="list-style-type: none"> Electrical requirements: AC/DC 9 V adapter (220 VAC, 60 Hz)
			<ul style="list-style-type: none"> Resolution (mV): 0.1 mV (± 199.9 mV); 1 mV beyond ± 200 mV
			<ul style="list-style-type: none"> Temp probe calibration: offset in 0.1°C increments; offset range $\pm 5^{\circ}\text{C}$
			<ul style="list-style-type: none"> Range pH: 0 to 14
			<ul style="list-style-type: none"> Accuracy mV: ± 0.2 mV (± 199.9 mV), ± 2 mV beyond ± 200 mV
			<ul style="list-style-type: none"> Calibration points: 1 to 5 points with automatic buffer recognition (ABR)
			<ul style="list-style-type: none"> Include 13-620-AE6 3-in-1 single junction gel pH/ATC electrode
			<ul style="list-style-type: none"> Memory: 100 datasets
			<ul style="list-style-type: none"> Resolution temperature: 0.1°C
			<ul style="list-style-type: none"> Temperature compensation: automatic or manual (0 to 100°C)
			<ul style="list-style-type: none"> Temperature range metric: 0.0 to 100.0°C
			<ul style="list-style-type: none"> Range mV: ± 1999 mV
			<ul style="list-style-type: none"> Resolution pH: 0.01
			<ul style="list-style-type: none"> Power source: 220 - 240 50/60 Hz
			<ul style="list-style-type: none"> Warranty: 2-year meter warranty; 6-month electrode warranty
7	pc	1	Multi-position Hot Plate Stirrer
			<ul style="list-style-type: none"> 3 independent heating/stirring positions
			<ul style="list-style-type: none"> 600 x 270 mm footprint
			<ul style="list-style-type: none"> robust aluminum / silicon alloy top plates
			<ul style="list-style-type: none"> Stirring speed: 1500rpm
			<ul style="list-style-type: none"> Volume: 15 L
			<ul style="list-style-type: none"> 3 x 25 mm PTFE coated stir bars
8	unit	2	Analytical Balance, at least 220g capacity

			☐4 decimal places
			☐Automatic Internal Calibration, LCD back-lit display
			☐Capacity: at least 220g
			☐Readability: 0.1 mg
			☐Repeatability (std dev): 0.1 mg
			☐Linearity (+/-): 0.2 mg
			☐Pan size (mm/inch): 90 Ø/3.5Ø
			☐Response time: at least 3 sec
			☐Calibration: Perfect Self Auto Calibration (temperature / time /power on)
			☐Display: Bright LCD Display with LED backlight
			☐Unit of measure: gram, Milligram
			☐Tare Range: Full
			☐Operating Temperature: 10°C to 40°C
			☐Power Supply: AC Adapter 100V- 240V +/- 20% 50-60Hz
9	unit	1	Microscope with Infinity Corrected Optics and Eyepiece Camera
			☐MICROSCOPE
			◀Optical System: UIS2 (Universal infinity-corrected) optical system
			◀6V/30W halogen bulb
			◀100-120V/220-240~0.85/0.45A 50/60Hz
			◀Focusing: Stage height movement by roller guide
			—Fine adjustment scale:2.5microns per gradation
			—Fine adjustment stroke: 0.3microns per turn
			—Total stoke: 20microns
			◀Revolving Nosepiece: Fixed quadruple nosepiece with inward tilt
			◀Objectives: Plan C Achromat Objectives
			—4xNA: 0.10 W.D.: 27.8 mm
			—10xNA: 0.25 W.D.: 8.0 mm
			—40xNA:0.65 W.D.: 0.6 mm
			—100xOil NA: 1.25 W.D.: 0.13 mm
			◀Binocular Observation Tube: Field Number: 20
			◀Tube inclination: 30 degree
			◀Interpupillary distance adjustment range: 48mm-75mm
			◀Stage: Size: 188mm(W) x 134mm(D)
			◀Movement range: 76mm X-direction x 50mm Y-direction
			◀Stage: Size: 188mm(W) x 134mm(D)

			◀Movement range: 76mm X-direction x 50mm Y-direction	
			◀Specimen holder: Double slide holder	
			◀Rubber grip: Equipped as standard	
			◀Condenser: Type: Abbe condenser, with built-in daylight filter	
			◀NA: 1.25 with oil immersion	
			◀Aperture in diaphragm: Built-in	
			☐EYEPIECE CAMERA	
			◀Optics	
			—Built-in magnification: 25x	
			—Lens type: Glass with Anti-Reflection coating	
			◀Sensor	
			—Sensor Type: CMOS	
			—Resolution: 5 Megapixel (2592x1944)	
			—Maximum frame rate: 30 fps	
			◀Dimensions	
			—Mounting type: Inside ocular/tube & c-mount	
			—Ocular inner diameter: 23, 30, 30,5mm	
			—Dimensions: 80 mm (H) x 32 mm (D)	
			◀Compatibility	
			—Interface: USB 2.0	
			—Operating system: Windows XP, Vista, 7,8, & 10, MacOS 10.4 and up	
			—Inclusion of software	
10	unit	1	DeepFreezing Freezer/Ultra-Low-Temperature Freezer	
			Cooling: Direct cooling	
			Defrost mode Manually	
			Cooling agent FCKW/HFCKW-free	
			Noise level dB(A)50	
			Cooling performance (°C) -86	
			Recovery time min ≤ 10	
			Control Microprocessor	
			Display 7" Touch screen LCD	
			Mains connection (V/Hz) 220/60	
			Compressor capacity (W) 1000	
			Electric load (A) at least 5.5	
			Volume (Liter) 300 - 400	
			Useful dimensions (W x D x H) (mm) at least 440x696x1266	
			General dimensions (W x D x H) (mm) 785x1041x1947	
			Container load (20'/40') 10/20	
			With at least 1 year warranty	

			Alarm System:
			High/Low temperature alarm Overheat
			cooling compressor Power breakdown
			High/Low voltage
			Sensor failure Accu weak High ambient temperature Door alarm
			Stands Wall openings, Trays /Inner door, USB interface, RS 485 interface
11	unit	2	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity, Upright
			☐Temperature range: +2°C to +8°C
			☐Inner cabinet: white epoxy painted
			☐Inner shelves: epoxy plastic coated steel rod
			☐CFC Free Eco-friendly refrigerant R 134a
			☐CFC Free, environment friendly Cyclopentene foaming PUF insulation
			☐No frost, fan-assisted cooling circulation system
			☐Ultra-fast pull down, auto defrost with self-evaporating drip tray
			☐Rear-to-front hot air anti-condensation
			☐Digital temperature controller
			☐Double glazed glass doors
			☐Full length illumination
			☐Fitted with castors, front two with brakes
			☐Low noise, green technology and energy saving
			☐Self-closing hinge doors
			☐Lock as standard
			☐Input 220/240V, 50/60 Hz with power cord & plug
			☐Automatic voltage stabilizer with time delay restart
			☐gross volume: ≥ 300 L
12	pc	3	Liquid Nitrogen Transfer Vessel
			type: LN2 Transfer Vessel, capacity: 5L, Lightweight aluminum dewars assure low-static evaporation rates
13	unit	1	Multipipette (0.5-10uL)
			Description: Manual multichannel pipette
			Specs:
			Compatible with standard pipette tips
			Increments 0.02μL
			Number of Channels 12
			Volume (Metric) 0.5 to 10 μL
			Autoclavable: yes
14	unit	1	Multipipette (120-1200uL)

			Description: Manual multichannel pipette
			Specs:
			Compatible with standard pipette tips
			Increments 10µL
			Number of Channels 8
			Volume (Metric) 120 to 1200 µL
			Autoclavable: yes
15	unit	1	Heating Block with Shaker
			movement (orbital);
			speed range (200-1500 rpm);
			temp range (5-100 degrees C);
			capacity (24 x 1.5mL)
			Power: 220V, 60Hz
16	unit	1	Real-Time qPCR
			Specs:
			<u>Machine</u>
			Fixed 96-well sample block (reduced-mass)
			Retractable lid
			Sample size: 96-wells
			Sample volume: 1 µL – 50 µL
			Heating and cooling method: Peltier
			Lid heating: 30-110°C
			Temperature range: 4-100°C
			Maximum ramp rate: 5 °C/sec
			Average ramp rate: 3.3 °C/sec
			Thermal accuracy: ±0.2°C
			Thermal uniformity: ±0.3 well-to-well after 10 sec of arrival at target
			Operational gradient temperature: 30 °C – 100 °C
			Gradient programmable span: 1 °C – 24 °C
			Touch system; with adjustable screen from 15°-22°
			Capable of stand-alone operation
			Automated lid that opens, closes and can apply sealing force to reaction wells
			<u>Optical Detection:</u>
			Multiplex analysis: up to 5 targets per well
			Wavelength Range: 450 nm – 730 nm
			Scan Time
			o All channels: 12 sec
			o Single-channel fast scan: 3 sec
			Dynamic range: 10 orders of magnitude

			Sensitivity: Detects 1 copy of target sequence in human genomic DNA
			Software:
			Operating System: Windows 10 compatible
			Data analysis modes: gene expression analysis by relative quantity (ΔCq) or normalized expression ($\Delta\Delta Cq$);
			Data analysis options: include bar chart, box and whisker plot, dot plot, clustergram statistics include t-tests and analysis of variance (ANOVA)
			Capable of generating customized temperature protocol based on enzyme type, PCR product length, and primer annealing temperature
			With reference gene selection tool
			Image export: Export images at a resolution up to 600 dpi;
			Inclusions:
			One (1) unit of 3 kVA AVR
			One (1) unit of 3 kVA UPS
			One (1) unit of laptop
			One (1) unit of printer
17	unit	2	Thermal Cycler
			capacity (96 x 0.2 mL tubes or 1 x 96-well plate);
			temp range (4-100C)
			gradient range (30-100C);
			temp differential range (1-25C);
18	unit	1	PCR Plate Thermal Sealer
			Specs:
			Timer: 0.5 to 10 s (increments of 0.1 sec)
			Accuracy: ± 1.0 °C
			Temperature Range: 100°C to 190°C
			Temperature Uniformity: ± 1.0 °C
			Voltage: 100–240 VAC, 50–60 Hz
			Inclusions:
			Delivery and installation
			At least 2 years warranty
19	unit	2	Horizontal Electrophoresis System
			Specs:
			Machine:
			Open system and compatible to any existing precast gel
			15 x 10 cm UV-transparent acrylic plastic gel tray with fluorescent ruler

			With 15- and 20- well combs
			Gel tank: molded clear plastic; has lid with cables
			Gel buffer: 650 mL – 900 mL
			Banana plugs: gold-plated brass, 4.4 cm length
			Electrodes: platinum, 0.25 mm in diameter
			Electrical leads: nickel silver
			Gel caster: polycarbonate, 0.64 cm silicon foam; with leveling bubble
			Power Supply:
			3-digit display
			Output specifications: 10 V – 300 V; 4mA – 400 mA; 75 W (maximum)
			4 pair recessed banana jacks in parallel
			Has pause mode for editing parameters, or stopping and resuming the run
			Power failure detection in timed mode; when power returns run will complete
			Automatic detection of rapid changes in resistance and no load conditions
			Compact and stackable
			Flip-down legs to change viewing angle
			Inclusions:
			Power supply
			One (1) unit of 1 kVA AVR
			agarose gel (molecular grade)
			50x TAE buffer
			100 bp DNA ladder with glycerol, bromophenol blue and xylene cyanol
			2-in-1 non-toxic visualization dye (loading dye and fluorescent dye)
20	unit	1	Vertical Electrophoresis System
			Specs:
			Machine:
			Tank: Polycarbonate
			Upper and lower electrode: Polycarbonate
			Lid: Polycarbonate
			Sample Loading guides: Polycarbonate
			Number of gels: 1-2
			Gel size: 13.3 x 8.7 cm (WxL)
			Gel tank: molded clear plastic; has lid with cables
			Gel buffer: 1000 mL
			Gel caster: polycarbonate, 0.64 cm silicon foam; with leveling bubble
			Typical running conditions: 200V constant

			Power Supply:
			Programable output (5-250 V, 0.01-3.0 A, 1-300W)
			Display: 2-line, 16 character LCD programming
			Constant voltage, constant power or constant power output
			Timer: 1 min-99hr, 59min
			With overload/short-circuit detection; overvoltage protection;
			4 pair recessed banana jacks in parallel
			Input power (9-120 or 198-246 VAC, 50/60 Hz, auto switching)
			Inclusions:
			Power supply
			Sample loading guides
			Combs (18 and 26)
			One (1) unit of 1 kVA AVR
			agarose gel (molecular grade)
			50x TAE buffer
			100 bp DNA ladder with glycerol, bromophenol blue and xylene cyanol
			2-in-1 non-toxic visualization dye (loading dye and fluorescent dye)
21	unit	1	Gel Documentation System
			Specs:
			SUPPORTING APPLICATIONS
			Fluorescence: Yes
			Colorimetry: Yes
			Gel Documentation: Yes
			AUTOMATION CAPABILITIES
			automatically recognizes application-specific tray
			adjusts imaging parameters and software options accordingly
			auto-focus (precalibrated)
			HARDWARE SPECIFICATIONS
			Touch-screen Functionality: Multi-touch capable
			Display resolution: 1,024 x 768 pixels
			Maximum Image Area (W x H): at least 21 x 14 cm
			Pixel Size: 2.4 x 2.4 μ m
			Bit Depth (gray levels): 65,536
			Excitation Source: Trans-UVB (Standard)
			Epi-white (Standard)
			Emission Filter 535-645 nm (standard)

			Data Output: 16-bit or 8-bit: SCN, TIFF, JPEG image file
			Operating Voltage: 100-240 VAC, 50-60 Hz
			Operating Temperature: 10-28° C
			Operating Humidity: 20-80% relative humidity (non-condensing)
			Inclusions:
			Imaging System
			Compatible Software
			UV/Stain-free Tray for Imaging System
			Computer
			Printer
			Automatic Voltage Regulator (2kVa)
			Uninterruptible Power Supply (2kVa)
			At least 2 years warranty
			Delivery and after sales services
22	unit	1	Benchtop Incubator Shaker
			Specs :
			CO2 control: (± 0.1 %)
			CO2 range (0.2–20 %)
			CO2 stability at 5% CO2 (± 0.2 %)
			CO2 uniformity (± 0.1 %)
			High temperature disinfection (4 hours at 120°C)
			In-line gas regulator (standard)
			Number of shelves -2
			Number of shelving racks (2)
			Movement type (orbital)
			Orbit (2.5 cm (1in))
			Speed range (25 – 400 rpm)
			Temperature control (± 0.1 °C)
			Temperature stability at 37°C (± 0.1 °C)
			Capacity (170 L)
			Display (Touchscreen)
			Timer (Continuous)
			Temperature range (Ambient +4°C to 50°C)
			Audible and visual alarms (yes)
			Temperature uniformity (± 0.25 °C at 37°C)
			Balanced drive mechanism (Triple-eccentric with permanently lubricated ball bearings)
			Motor type (Solid state, DC brushless motor)
			Power: 220V, 60Hz
			Inclusions:
			Automatic Voltage regulator
			Two (2) year warranty
			Delivery and installation

			Training and aftersales services	
23	unit	2	Water Bath with Hood	
			with hood; capacity (2L);	
			temp uniformity ($\pm 0.2^{\circ}\text{C}$);	
			temp stability ($\pm 0.1^{\circ}\text{C}$ at 70°C);	
			max temp (100°C);	
			timer (yes)	
24	unit	1	Convection Oven	
			convection type;	
			temp range (ambient, $10-200^{\circ}\text{C}$);	
			temp stability ($\pm 0.1^{\circ}\text{C}$ at 100°C);	
			capacity (2cu.ft/ 30000mL);	
			programable temperature	
			Power: 220V, 60Hz	
25	unit	1	Centrifuge	
			speed range (200rpm-18000rpm);	
			max rcf (23, 542 x g);	
			refrigeration range ($-20- -40^{\circ}\text{C}$);	
			noise level ($<60\text{ dB}$);	
			Frequency (50/60 Hz)	
			Rotor (Swinging bucket rotor- 4x750ml) with Buckets, ClickSeal	
			Type (Benchtop Centrifuge)	
			Voltage (220/240 V)	
			Capacity (148 x 5/7 mL tubes, 84 x 9/10 mL Tubes, 56 x 15 mL Conical Tubes, 28 x 50 mL Conical Tubes, at least 4 Microplates; 4 x 1000 mL bottles)	
			Refrigerated (Yes, CFC-Free)	
			Temperature Range (-10°C to $+40^{\circ}\text{C}$, $\pm 2^{\circ}\text{C}$)	
			Display (Full Color Touch Screen Interface)	
			Timer (Option to count up or down)	
			Certifications/Compliance – (EN/UL/IEC 61010-1EN/UL/IEC 61010-2EN/UL/IEC 61326-1EN/UL/IEC 61326-2FCC part 15)	
			Drive System (Direct, Brushless Induction Low Profile)	
			Run Time (Up to 99 hr. 59 min. 59 sec.)	
			Standards (ISO 14971, ISO 13485, ISO 9001)	
			Inclusions:	
			Rotor Buckets and accessories	
			Tube and microplate adapters	
			User Manual	
			At least 2 years warranty	
			Installation and after sales services	
26	unit	2	Safety Storage Cabinet	
			dimentions (915mmx459mmx459mm);	

			lockable;
			material (stainless steel)
27	unit	2	Fumehood
			Laboratory fumehood;
			at least 1800W*850D*2350L (mm);
			material (steel);
			worktop material (epoxy resin, phenolic resin, ceramic, stainless steel);
			floor mounted structure
			with Installation and exhaust duct
			Manual type operation
			Power: 220V, 60Hz
28	unit	1	Water Purification System
			Specs:
			Type: Ultra pure water purification system)
			Feedwater source: potable tap water
			Certifications/compliance (UL, Cul, ISO 9001 v.2000, ISO 14001)
			Contaminant rejection (greater than 99%)
			Product water types: Type 1 and Type 3
			Feed Water Conductivity at 25°C < 2000 µS/cm
			Feed Water TOC < 2000 ppb
			Feed Water Pressure 1 - 6 bar
			Feed Water Temperature 5 - 35°C
			Feed Water Chlorine* < 3 ppm
			Feed Water Fouling Index** < 12
			Feed water pH 4 to 10 pH units
			Feed Water Connection 1/2 in Gaz M
			System Specs:
			Electric power supply voltage 100 - 230 V +/- 10%
			Electric power supply frequency 50 - 60 Hz
			Main unit data connection Ethernet (RJ45)
			Water Production and Delivery:
			Type 1 Water Delivery
			Manual dispense flow rate (between 50 and 2000 mL/min)
			Automatic dispense
			Volumetric dispense accuracy (3% for volumes between 250 mL and 60 L)
			Volumetric dispense dispersion (CV < 3% for volumes between 250 mL and 60 L)
			Type 3 Water Production and Delivery
			Production Flow Rate (8 L/hour) D
			Delivery Flow rate

			From tap: up to 2.5 L/min	
			From optional pump: up to 15 L/min at 1 bar	
29	unit	1	Dishwasher	
			Description: Laboratory Dishwasher for glassware	
			Specs:	
			Labware Type: Glasswares	
			Door Style: Solid Door	
			Configuration: ADA Undercounter	
			Integral Heater: Yes	
			Electrical Specifications: 115 V, 16 A, 1 Ph, 60 Hz	
			Placement: Free standing	
			Water temperature: up to 93° C	
			size (60m stainless steel; placement (freestanding);	
			with built-in display (LED);	
			water consumption (10L);	
			service capacity (more than 12);	
			energetic calification (A);	
			installation type (integrated)	
			Inclusions:	
			Installation	
30	unit	2	Mini PCR plate spinner	
			Specs:	
			dual position vertical rotor	
			compatible with 96-well, 384-well, skirted and non-skirted plates	
			acceleration: 2500 rpm	
			capacity: 2 PCR plates	
			120V	
			Inclusions:	
			Adapter for PCR plate spinner	
			At least 2 year warranty	
			Delivery and after sales services	
31	unit	1	Cryogenic Storage System	
			Specs:	
			Vessel Application (Cryogenic Storage)	
			Type (manual fil LN2 Dewar)	
			Low Liquid Nitrogen Alarm: Yes	
			2 mL Vial Capacity: -6000	
			Vial Capacity Range: (5,001 to 10,000)	
			Material: (Aluminum)	
			Design: (Free Standing)	
			Lockable: Yes	
			Rack System: Yes	

			Liquid Nitrogen Capacity: 184 L	
			Static Hold Time: 185 days	
			Evaporation Rate: 1 L/day	
			Neck Diameter: 216 mm dia.	
			with nitrogen level monitor;	
			insulation (vacuum);	
			monitoring options (ultrasonic level);	
			<i>Inclusions:</i>	
			Compatible storage racks	
			Vial box (1.5ml and 2ml)	
			Cryo vials (1.2mL)	
			Wheeled cart for vessel	
			At least 2 years product warranty	
			Delivery and after sales services	

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 Eight Million Five Hundred Thirty-Eight Thousand Two Hundred Fifty Pesos (PhP 8,538,250.00)*;
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 Eight Million Five Hundred Thirty-Eight Thousand Two Hundred Fifty Pesos (PhP 8,538,250.00)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least Four Million Two Hundred Sixty-Nine Thousand One Hundred Twenty-Five Pesos (PhP 4,269,125.00)*; **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) Schedule of Requirements/production and delivery schedule; **and**
- ☐ (k) Manpower requirements; **and**
- ☐ (l) After-sales service/parts; **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 17,076,500.00**);
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 1,707,650.00**).

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. 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 25, 2021; 8:30 AM).



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