



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Technical & Scientific Equipment (VSU-GOODS-24-01) *(early procurement)*

Government of the Republic of the Philippines

**October 23, 2023; 9:00 AM
BAC Conference Room, VSU Market, 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 TECHNICAL & SCIENTIFIC EQUIPMENT AND SUPPLIES

- The *Visayas State University* through the *GF 2024* intends to apply the sum of *Eight Million Two Hundred Sixty Thousand Pesos (PhP 8,260,000.00)* being the ABC to payments under the contract for *Supply and Delivery of Technical & Scientific Equipment (VSU-GOODS-24-01)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University*, through the *GF 2024* intends to apply the following ABC per item to payments under the contract for each item, to wit:

Item #	Description	Unit	Qty	Unit Price	Total Price
1	Industrial and Heavy-Duty Earth Ground Tester Kit	set	1	400,000.00	400,000.00
	Specification:				
	<i>Memory: Internal memory storage up to 1500 records accessible via USB port</i>				
	<i>Measuring Function: Interference voltage and frequency, earthing resistance 3- and 4-pole with/without clip-on current transformer, resistance 2-pole with AC, 2-and 4-pole with DC</i>				
	<i>Display: 4-digit (2999 Digit) - 7 segment liquid crystal display, with improved Visibility.</i>				
	<i>Operation: Central rotary switch and function keys.</i>				
	<i>Operating Temperature: -10°C to 50°C (14°F to 122°F)</i>				
	<i>Storage Temperature: -30°C to 60°C (-22°F to 140°F)</i>				
	<i>Temperature Coefficient: ±0.1% of reading/°C < 18°C > 28°C</i>				
	<i>Protection: Complied with EN60529 (IP56 for case, IP40 for battery door)</i>				
	<i>Max Voltage: Warning-socket clamp E, ES, S or H</i>				
	<i>Max Urms = 250V (pertains to misuse)</i>				
	<i>Safety: Protection by double and/or reinforced insulation. Max. 50 V to earth per IEC61010-1. Pollution degree 2</i>				
	<i>Quality Standard: DIN ISO 9001 compliance in development, designed and manufacturing</i>				
	<i>External field influence: Complies with DIN 43780 (8/76)</i>				
	<i>Measure of Interference Voltage DC + AC: Full wave rectification of measuring limits of error & method, Measuring range (1V – 50V), Display range (0.0V – 50V), Frequency range (DC/AC 45hz – 400Hz), Accuracy (±5% of rdg + 5 digit), Internal resistance (Approx. 1.5 MΩ)</i>				
	<i>Measure of Interference Frequency: Measurement of oscillation period of the interference voltage, Measuring Range (6.0 Hz to</i>				

	400 Hz), Display range (16.0 Hz to 299.9 Hz to 999 Hz), Accuracy ($\pm 1\%$ of rdg + 2 digit)				
	Earthing Resistance: Current and voltage measurement with probe as IEC61557-5, Open circuit voltage (20/48 V, AC), Short circuit current (250 mA AC), Noise rejection (120 dB)				
	Electrical Measurement: Position (Reference position $\pm 90^\circ$), Temperature (0°C and 35°C), Resistance of the probes & auxiliary earth electrodes (0 to $100 \times RA \leq 50 \text{ k}\Omega$), System frequency (99% to 101% of the nominal frequency), System voltage (85% to 110% of the nominal voltage), Operating error ($B[\%] = \pm B/\text{fiducial value} \times 100\%$, A = intrinsic error, E_n = variations, R = routine test, T = type test), Accuracy ($\pm 2\%$ of rdg + 2 digit), Measuring time (Typical 8 seconds with a fixed frequency 30 sec. max. with AFC & complete cycle of all measuring frequencies) Measuring error of RH & RS (Typ. 10% of RE + RS + RH), Max. probe resistance & auxiliary earth electrode resistance ($\leq 1 \text{ M}\Omega$)				
	Automatic Switchover of Measuring Resolution in Dependence to Auxiliary Earth Electrode Resistance RH				
	Selective Measurement of the Earthing Resistance (RE Clamp): (Current and voltage measurement with probe as per EN61557-5 & current measurement in the individual branch with additional current transformer.				
	Resistance Measurement (R AC/DC): (Current and voltage measuring method as per IEC61557-4 possible)				
	Compensation of Lead Resistance (RK)				
	Stakeless Ground Loop Measurement (Two Clamp Stakeless)				
	GEO Earth Ground Tester				
	User's Manual & Quick Reference Guide				
	USB Cable				
	Professional Carrying Case				
	2 Clamps, 4 Earth Ground Stakes & 3 Cable Reels				
	General Requirement:				
	At least one-year warranty				
	Provide technical assistance and training on product usage and service center within the Cebu or Manila.				
	Product Manufacturer at least 15 years in the Electro-mechanical maintenance industry.				
2	Industrial and Heavy-Duty Earth Ground Loop and Leakage Clamp	set	1	182,000.00	182,000.00
	Specification:				
	Test the grounding components of equipment in hard-to-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes.				
	AC Leakage Current Measurement: Identify AC leakage without disconnecting your earth ground stake from the grounding system.				
	Heavy-duty clamp jaw stays in alignment and in calibration even in every day, on-the-job industrial environments				

	User-defined high/low alarm limits, for rapid measurement evaluation				
	Selectable band-pass filter function removes unwanted noise from the AC leakage current measurement.				
	Electrical specification: Maximum voltage to earth ground (1000V), Battery type (AA alkaline IEC/EN LR6 (x4)), Frequency range (40 Hz to 1 kHz), Ingress Protection (IEC/EN 60529: IP30 with jaw closed), LCD (Digital reading, 999 counts; Refresh rate, 4 per second), Operating temperature (-10 °C to + 50 °C), Storing temperature (-20 °C to + 60 °C), Operating humidity (Non-condensing), Operating altitude (2000 m or 6561 feet), Storing altitude (12 000 m or 39,370 feet), Reference Temperature (23 °C ±5 °C or 73 °F ±9 °F), Measurement (IEC/EN 61010-2-032: CAT IV 600 V / CAT III 1000 V), Current clamp for leakage current measurements (IEC/EN 61557-13: Class 2, ≤30 A/m), Resistance to earth (IEC/EN 61557-5), Effectiveness of the Protective Measures (IEC/EN 61557-16), Electromagnetic compatibility (EMC) (IEC/EN 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class B, IEC/EN 61326-2-2, KCC Class A equipment, FCC 47 CFR 15 subpart B)				
	Earth Ground Clamp				
	Loop resistance standard				
	Safety information guide & Quick reference guide				
	Hard case & (4) AA batteries				
	General Requirement:				
	At least one-year warranty				
	Provide technical assistance and training on product usage and service center within the Cebu or Manila.				
	Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry.				
3	Industrial and Heavy-Duty Precision Acoustic Imager	unit	1	2,062,000.00	2,062,000.00
	Specification:				
	Quick and easy partial discharge detection & PD testing				
	Sensors: Frequency band (2 kHz to 100 kHz), Detection range (0.5 to > 120 meters -1.6 to > 393 feet), Field view (63 ° ± 5 °), Nominal frame rate (25FPS)				
	Built-in digital camera (visible light): (FOV63 ° ± 5 °and fixed lens)				
	Display:7" LCD with backlight, under-sunlight readable, Capacitive Touch screen, SoundMap image acoustic image, 1280 x 800 (1,024,000 pixels) resolution				
	Image storage: Storage capacity at least 999 picture files and 20 video files, blended and soundmap jpg, png and mp4 format, 5 minutes video length and USB-C for data transfer				
	Acoustic measurement: Measurement range (12.1 dB SPL to 114.6 dB SPL ±1 dB SPL 2 kHz, 4.4 dB SPL to 101.2 dB SPL ±2 dB SPL 19 kHz, 12.8 dB SPL to 119.2 dB SPL ±1 dB SPL 35 kHz, 19.8 dB SPL to 116.1 dB SPL ±3 dB SPL 52 kHz, z, 41.4 dB SPL to 129.0 dB SPL ±1 dB SPL 80 kHz, 54.4 dB SPL to 135.5 dB SPL ±1 dB SPL 100 kHz)				

	Software: Intuitive user interface, Trend graphs (Frequency and dB scale), Spot markers (dB level reading at center point of the image)				
	Battery: Batteries (field-replaceable, Rechargeable, 2 x Li-ion battery), Battery life (6 hours/battery includes spare battery), Battery charging (External dual-bay, 3-hour charging time)				
	Standard palettes: 3: Grayscale, Ironbow, Blue-Red				
	Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)				
	Storage temperature: -20 °C to 70 °C (-4 °F to 158 °F) Without batteries				
	Relative humidity: 10 % to 95 % non-condensing				
	Ingress Protection (IP): IP40 protection				
	Self-diagnostic notification: Array-health test to identify when microphone array needs attention				
	Supported languages: Dutch, English, Finish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese				
	Safety Compliant: IEC 61010-1 & RoHS compliant				
	Electromagnetic Compatibility (EMC): IEC 61326-1: CISPR 11: Group 1, Class A, (KCC) Class A Equipment, (FCC) 47 CFR 15 subpart B.				
	AC power supply and battery pack charger (including universal AC adapters)				
	Two rugged lithium ion smart battery packs & USB cable				
	Rugged, hard carrying case & adjustable hand strap and neck strap				
	General Requirement:				
	Warranty: 2 year				
	Provide technical assistance and training on product usage and service center within the Cebu or Manila.				
	Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry.				
4	Industrial and Heavy-Duty Three-Power Quality Analyzer	unit	1	900,000.00	900,000.00
	Specification:				
	Voltage inputs: Number of inputs (4 inputs, 3 phases and neutral referenced to PE 5 connectors), Measurement category (1000 V CAT III / 600 V CAT IV), Maximum input voltage (1000 V rms / 1000 V dc (1700 Vpk)), Nominal voltage range (Wye and single phase: variable 50V – 1000V) (Delta: Variable 100V – 1000V) IEC 61000-4-30 Class A compliance, Input impedance (10 MΩ between P-P & P-N, 5 MΩ between P-PE & N-PE), Bandwidth (DC to 30 kHz for PQ measurements), Resolution (24-bit synchronous sampling), Sampling frequency (80 kS/s at 50/60 Hz), Scaling (1:1, variable for use of potential transformers)				
	Standard compliance: Power (IEEE 1459), Harmonics (IEC 61000-4-7: Class 1), IEEE 519 (short time and very short time harmonics), Flicker (IEC 61000-4-15 Class F1) Power quality (IEC 61000-4-30 Class A, IEC 62586 PQI-A-PI), Power quality compliance (EN 50160 + GOST + NEQUAL + NETCODE + FOL)				

	<i>Environmental specifications: Operating temperature range –(10 °C to 50 °C), Storage temperature range (-20°C to 60°C)</i>				
	<i>IP Rating (IEC 60529: IP50)</i>				
	<i>Vibration (IEC 60721-3-3 / 3M2)</i>				
	<i>Power supply: Voltage range (100V – 600V -15 % / +10%), Power consumption (Max. 40VA), Mains frequency 50/60 Hz</i>				
	<i>UPS: Li-Ion battery BP1770 with extended temperature range, On-battery runtime: 1.5 hours</i>				
	<i>Safety: IEC 61010-1: Pollution Degree 2</i>				
	<i>Power supply: Overvoltage Category IV 600 V with Mains Adapter MA-C8: Overvoltage Category II 300 V</i>				
	General Requirement:				
	<i>Warranty Analyzer: 2 years (battery not included)</i>				
	<i>Accessories: 1 year (including battery)</i>				
	<i>Calibration cycle 2 years</i>				
	<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>				
	<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>				
5	Industrial and Heavy-Duty Thermal Camera	unit	1	310,000.00	310,000.00
	Specification:				
	<i>Detector resolution: 640 x 480</i>				
	<i>Super Resolution: Captures and combines 4x the data to create a 1280 x 960 (614,400 pixels) image</i>				
	<i>Infrared Resolution: 307,200 pixels</i>				
	<i>Laser distance meter</i>				
	<i>Advanced manual focus</i>				
	<i>Ruggedized touchscreen display with 3.5 inch (landscape) 640 x 480 LCD</i>				
	<i>Rugged, ergonomic design for one-handed use Yes</i>				
	<i>Digital zoom 2x and 4x</i>				
	<i>Temperature measurement range: ≤-20 °C to 1000 °C (-4 °F to 1832 °F)</i>				
	<i>Accuracy: ±2 °C or 2% (at 25 °C nominal, whichever is greater)</i>				
	<i>Thermal sensitivity (NETD)* ≤0.05 °C at 30 °C target temp (50 mK)</i>				
	<i>Wireless connectivity and compatibility with IOS, Android and LAN</i>				
	<i>Lenses: Standard lens IFOV (spatial resolution) 0.93 mRad, D:S 1065:1, Field of view 34 °H x 24 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Picture-In-Picture and full screen 2x telephoto smart lens IFOV (spatial resolution) 0.46 mRad, D:S 1529:1, Field of view 17 °H x 12 °V, Minimum focus distance 45 cm (approx. 18 in), IR-Fusion® technology Picture-In-Picture and full screen</i>				
	<i>4x telephoto smart lens IFOV (spatial resolution) 0.23 mRad, D:S 2941:1, Field of view 6 °H x 4.5 °V, Minimum focus distance 1.5 cm (approx. 60 in),</i>				

	Wide-angle smart lens IFOV 1.85 mRad, D:S 377:1, Field of view 48 °H x 34 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Full screen				
	Battery: Batteries (field-replaceable, rechargeable), Two lithium ion smart battery packs with five-segment LED display to show charge level, Battery life 2-3 hours per battery, 2.5 hours to full charge, Battery charging system Two-bay battery charger or in-imager charging.				
	Infrared spectral band: 7.5 µm to 14 µm (long wave)				
	Operating temperature -10 °C to +50 °C (14 °F to 122 °F)				
	Storage temperature -20 °C to +50 °C (-4 °F to 122 °F)				
	Relative humidity 10% to 95% non-condensing				
	Safety IEC 61010-1: Overvoltage category II, Pollution Degree 2				
	Electromagnetic compatibility: IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A				
	General Requirement:				
	Warranty: 2 years				
	Calibration cycle: Every 2 years				
	Provide technical assistance and training on product usage and service center within the Cebu or Manila.				
	Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry				
6	Industrial and Heavy-Duty Cable Locator Set	set	1	90,000.00	90,000.00
	Specification:				
	Professional cable locator				
	Voltage measurement range for Transmitter: 12 V, 50 V, 120 V, 230 V, 400 V				
	Frequency range for Transmitter: 0 - 60 Hz				
	Output signal for Transmitter: 125 kHz				
	Voltage for Transmitter: Up to 400 V AC/DC				
	Tracing depth cable location for Receiver: 0 - 2.5 m wall/underground cables				
	Main voltage detection for Receiver: 0 - 0.4 m				
	Operating temperature: Transmitter & Receiver (0 to 40°C)				
	Storage temperature: Transmitter & Receiver (-20°C to +60°C)				
	Humidity (without condensation): Transmitter & Receiver (Max. 80% relative)				
	Operating altitude: Transmitter & Receiver: (Up to 2000 m)				
	Electrical safety EN 61010-1				
	Overvoltage category Cat. III 300 V				
	General Requirement:				
	Warranty 2 years				
	Provide technical assistance and training on product usage and service center within the Cebu or Manila.				
	Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry				

7	Industrial and Heavy-Duty Infrared Camera	unit	1	916,000.00	916,000.00
	Specification:				
	Detector resolution: 640 x 480				
	Super Resolution: Captures and combines 4x the data to create a 1280 x 960 (614,400 pixels) image				
	Infrared Resolution: 307,200 pixels				
	Laser distance meter				
	Advanced manual focus				
	Ruggedized touchscreen display with 3.5 inch (landscape) 640 x 480 LCD				
	Rugged, ergonomic design for one-handed use Yes				
	Digital zoom 2x and 4x				
	Temperature measurement range: ≤ -20 °C to 1000 °C (-4 °F to 1832 °F)				
	Accuracy: ± 2 °C or 2% (at 25 °C nominal, whichever is greater)				
	Thermal sensitivity (NETD)* ≤ 0.05 °C at 30 °C target temp (50 mK)				
	Wireless connectivity and compatibility with IOS, Android and LAN				
	Lenses: Standard lens IFOV (spatial resolution) 0.93 mRad, D:S 1065:1, Field of view 34 °H x 24 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Picture-In-Picture and full screen 2x telephoto smart lens IFOV (spatial resolution) 0.46 mRad, D:S 1529:1, Field of view 17 °H x 12 °V, Minimum focus distance 45 cm (approx. 18 in), IR-Fusion® technology Picture-In-Picture and full screen				
	4x telephoto smart lens IFOV (spatial resolution) 0.23 mRad, D:S 2941:1, Field of view 6 °H x 4.5 °V, Minimum focus distance 1.5 cm (approx. 60 in),				
	Wide-angle smart lens IFOV 1.85 mRad, D:S 377:1, Field of view 48 °H x 34 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Full screen				
	Battery: Batteries (field-replaceable, rechargeable), Two lithium ion smart battery packs with five-segment LED display to show charge level, Battery life 2-3 hours per battery, 2.5 hours to full charge, Battery charging system Two-bay battery charger or in-imager charging.				
	Infrared spectral band: 7.5 μ m to 14 μ m (long wave)				
	Operating temperature -10 °C to +50 °C (14 °F to 122 °F)				
	Storage temperature -20 °C to +50 °C (-4 °F to 122 °F)				
	Relative humidity 10% to 95% non-condensing				
	Safety IEC 61010-1: Overvoltage category II, Pollution Degree 2				
	Electromagnetic compatibility: IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A				
	General Requirement:				
	Warranty: 2 years				
	Calibration cycle: Every 2 years				

	<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>				
	<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>				
8	Industrial and Heavy-Duty Battery Operated Self-Propelled Articulating Boom Lift	unit	1	3,400,000.00	3,400,000.00
	Specification:				
	<i>Max. Working Height: at least 22m</i>				
	<i>Max. Platform Height: at least 20m</i>				
	<i>Max. up and over clearance: at least 9.4m</i>				
	<i>Max. Working Radius: at least 12.23m</i>				
	<i>Platform Width: at least 0.76m</i>				
	<i>Platform Length: at least 1.8m</i>				
	<i>Height: Stowed at least 2.38m</i>				
	<i>Length: Stowed at least 8.99m</i>				
	<i>Width: at least 2.49m</i>				
	<i>Wheelbase: at least 2.5m</i>				
	<i>Ground Clearance: Center at least 0.3m</i>				
	<i>Max. Lift Capacity: 256kg/350kg</i>				
	<i>Number of platform occupants: 2/3</i>				
	<i>Platform rotation: ±80°</i>				
	<i>Turntable rotation: 355°</i>				
	<i>Vertical jib rotation (up/down): ±70°</i>				
	<i>Drive speed: Stowed at least 4.5km/h</i>				
	<i>Gradeability: Stowed at least 40%</i>				
	<i>Max. Working angle (Tilt sensor activation):3°</i>				
	<i>Turning radius (outside): 5.0m</i>				
	<i>Drive and steer: 4×2</i>				
	<i>Weight: at least 10000kg</i>				
	<i>Battery: 48V/420Ah</i>				
	<i>Control voltage: at least 24V</i>				
	<i>Pump power: at least 12kw</i>				
	<i>Drive motor: at least 3.3kw</i>				
	<i>Standard compliance: GB25849-2010, BS EN 280:2013+A1:2015</i>				
	General Requirement:				
	<i>Warranty: 2 years</i>				
	<i>Life-long technical support and assistance</i>				
				TOTAL:	8,260,000.00

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 *02 October – 23 October 2023 until 8:00 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 Ten Thousand Pesos (PhP 10,000.00). 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 9, 2023; 2:00 PM*** at the *BAC Conference Room, VSU Market, Visca, Baybay City, Leyte* and through video conferencing *via Zoom*, which shall be open to prospective bidders.

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

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before ***23 October 2023 until 8:30 AM***. Late bids shall not be accepted.
8. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through preferred couriers. A proof (e.g. courier receipt/waybill, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
10. Bid opening shall be on ***23 October 2023 until 9:00 AM*** at the *BAC Conference Room, VSU Market, Visca, Baybay City, Leyte* and through video conferencing *via Zoom*.

Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Bidders are advised to contact the BAC Secretariat before the scheduled Bid Opening for the Zoom meeting details.

11. This procurement project is part of the early procurement activities (EPA) of VSU for 20243 projects. Procurement activities from advertisement until recommendation of award to the HoPE shall be conducted in 2023 but issuance of award to the winning bidders shall be done in 2024 upon the release of 2024 VSU General Appropriations Act from DBM.
12. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
13. For further information, please refer to:

Mr. Leopoldo S. Escala Jr. (BAC Secretariat)
*Office of the Head for Procurement,
VSU-Main, Visca, Baybay City, Leyte
Mobile: 053 565 0600 local 1093 or 09639629709
Email: leopoldo.escala@vsu.edu.ph*

or

Mr. Toni Marc L. Dargantes (BAC Secretariat)
*Office of the VP for Planning, Resource Generation & Auxiliary Services
VSU-Main, Visca, Baybay City, Leyte
Mobile: 0977 7186594
Email: tmdargantes@vsu.edu.ph*

14. You may visit the following websites:

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

September 29, 2023



DILBERTO O. FERRAREN
Chairperson, VSU BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Visayas State University*, wishes to receive Bids for the *Supply and Delivery of Technical & Scientific Equipment*, with identification number *VSU-GOODS-24-01*.

The Procurement Project (referred to herein as “Project”) is composed of *52 items*, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for 2024 in the amount of *Eight Million Two Hundred Sixty Thousand Pesos (Php 8,260,000.00)*.

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

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

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

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

Bidder should comply with the following requirements:

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

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

6. Origin of Goods

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

7. Subcontracts

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

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

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

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

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

11. Documents comprising the Bid: Financial Component

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

12. Bid Prices

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

the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

- ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

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

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until **February 23, 2024**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing,

webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated “*passed*,” using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows: One Project having several items, which shall be awarded as separate contracts per item.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid

through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. <i>Technical, 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>One Hundred Sixty Five Thousand Two Hundred Pesos (PhP 165,200.00) 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>Four Hundred Fifteen Thousand Pesos (PhP 413,000.00) or five percent (5%) of ABC</i> if bid security is in Surety Bond.
15	Bidders are requested to submit two (2) more copies of its bid (Copy 1 and Copy 2) in addition to the required original hardcopy. For filing purposes, the bidders are urged to use Red envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.
19.3	<i>See Section I. Invitation to Bid (Item 1) for the list of items and their corresponding total Approved Budget for the Contract (ABC) per item.</i>
20.2	Bidders are required to submit its updated Mayor's/Business Permit during post-qualification.
21.2	<i>Not Applicable.</i>

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

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

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

3. Performance Security

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

4. Inspection and Tests

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

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery term applicable to this Contract is delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p style="text-align: center;"><u>Vivian V. Balbarino</u> <i>Head, Supply and Property Management Office</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082/ 09175518871</i> sppmo@vsu.edu.ph</p> <ul style="list-style-type: none"> • Additional Instruction: The Supplier should notify the Head of Supply and Property Management Office atleast 1 week before the scheduled delivery. <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance r supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

	<p>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>
	<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 #	Qty	Unit	Description	Delivered, Weeks/Months
1	1	set	Industrial and Heavy-Duty Earth Ground Tester Kit	All Items Should Be Delivered to VSU Main Campus, Visca, Baybay City, Leyte within 90 calendar days from receipt of Notice To Proceed (NTP), Purchase Order
			Specification:	
			<i>Memory: Internal memory storage up to 1500 records accessible via USB port</i>	
			<i>Measuring Function: Interference voltage and frequency, earthing resistance 3- and 4-pole with/without clip-on current transformer, resistance 2-pole with AC, 2-and 4-pole with DC</i>	
			<i>Display: 4-digit (2999 Digit) - 7 segment liquid crystal display, with improved Visibility.</i>	
			<i>Operation: Central rotary switch and function keys.</i>	
			<i>Operating Temperature: -10°C to 50°C (14°F to 122°F)</i>	
			<i>Storage Temperature: -30°C to 60°C (-22°F to 140°F)</i>	
			<i>Temperature Coefficient: ±0.1% of reading/°C < 18°C > 28°C</i>	
			<i>Protection: Complied with EN60529 (IP56 for case, IP40 for battery door)</i>	
			<i>Max Voltage: Warning-socket clamp E, ES, S or H</i>	
			<i>Max Urms = 250V (pertains to misuse)</i>	
			<i>Safety: Protection by double and/or reinforced insulation. Max. 50 V to earth per IEC61010-1. Pollution degree 2</i>	
			<i>Quality Standard: DIN ISO 9001 compliance in development, designed and manufacturing</i>	
			<i>External field influence: Complies with DIN 43780 (8/76)</i>	
			<i>Measure of Interference Voltage DC + AC: Full wave rectification of measuring limits of error & method, Measuring range (1V – 50V), Display range (0.0V – 50V), Frequency range (DC/AC 45hz – 400Hz), Accuracy (±5% of rdg + 5 digit), Internal resistance (Approx. 1.5 MΩ)</i>	
			<i>Measure of Interference Frequency: Measurement of oscillation period of the interference voltage, Measuring Range (6.0 Hz to 400 Hz), Display range (16.0 Hz to 299.9 Hz to 999 Hz), Accuracy (±1% of rdg + 2 digit)</i>	
			<i>Earthing Resistance: Current and voltage measurement with probe as IEC61557-5, Open circuit voltage (20/48 V, AC), Short circuit current (250 mA AC), Noise rejection (120 dB)</i>	

			<p><i>Electrical Measurement: Position (Reference position ± 90), Temperature (0°C and 35°C), Resistance of the probes & auxiliary earth electrodes (0 to $100 \times RA \leq 50 \text{ k}\Omega$), System frequency (99% to 101% of the nominal frequency), System voltage (85% to 110% of the nominal voltage), Operating error ($B[\%] = \pm B/\text{fiducial value} \times 100\%$, $A = \text{intrinsic error}$, $E_n = \text{variations}$, $R = \text{routine test}$, $T = \text{type test}$), Accuracy ($\pm 2\%$ of rdg + 2 digit), Measuring time (Typical 8 seconds with a fixed frequency 30 sec. max. with AFC & complete cycle of all measuring frequencies) Measuring error of RH & RS (Typ. 10% of RE + RS + RH), Max. probe resistance & auxiliary earth electrode resistance ($\leq 1 \text{ M}\Omega$)</i></p>
			<p><i>Automatic Switchover of Measuring Resolution in Dependence to Auxiliary Earth Electrode Resistance RH</i></p>
			<p><i>Selective Measurement of the Earthing Resistance (RE Clamp): (Current and voltage measurement with probe as per EN61557-5 & current measurement in the individual branch with additional current transformer.</i></p>
			<p><i>Resistance Measurement (R AC/DC): (Current and voltage measuring method as per IEC61557-4 possible)</i></p>
			<p><i>Compensation of Lead Resistance (RK)</i></p>
			<p><i>Stakeless Ground Loop Measurement (Two Clamp Stakeless)</i></p>
			<p><i>GEO Earth Ground Tester</i></p>
			<p><i>User's Manual & Quick Reference Guide</i></p>
			<p><i>USB Cable</i></p>
			<p><i>Professional Carrying Case</i></p>
			<p><i>2 Clamps, 4 Earth Ground Stakes & 3 Cable Reels</i></p>
			<p>General Requirement:</p>
			<p><i>At least one-year warranty</i></p>
			<p><i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i></p>
			<p><i>Product Manufacturer at least 15 years in the Electro-mechanical maintenance industry.</i></p>
2	1	set	<p>Industrial and Heavy-Duty Earth Ground Loop and Leakage Clamp</p>
			<p>Specification:</p>
			<p><i>Test the grounding components of equipment in hard-to-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes.</i></p>
			<p><i>AC Leakage Current Measurement: Identify AC leakage without disconnecting your earth ground stake from the grounding system.</i></p>
			<p><i>Heavy-duty clamp jaw stays in alignment and in calibration even in every day, on-the-job industrial environments</i></p>

			<i>User-defined high/low alarm limits, for rapid measurement evaluation</i>
			<i>Selectable band-pass filter function removes unwanted noise from the AC leakage current measurement.</i>
			<i>Electrical specification: Maximum voltage to earth ground (1000V), Battery type (AA alkaline IEC/EN LR6 (x4)), Frequency range (40 Hz to 1 kHz), Ingress Protection (IEC/EN 60529: IP30 with jaw closed), LCD (Digital reading, 999 counts; Refresh rate, 4 per second), Operating temperature (-10 °C to + 50 °C), Storing temperature (-20 °C to + 60 °C), Operating humidity (Non-condensing), Operating altitude (2000 m or 6561 feet), Storing altitude (12 000 m or 39,370 feet), Reference Temperature (23 °C ±5 °C or 73 °F ±9 °F), Measurement (IEC/EN 61010-2-032: CAT IV 600 V / CAT III 1000 V), Current clamp for leakage current measurements (IEC/EN 61557-13: Class 2, ≤30 A/m), Resistance to earth (IEC/EN 61557-5), Effectiveness of the Protective Measures (IEC/EN 61557-16), Electromagnetic compatibility (EMC) (IEC/EN 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class B, IEC/EN 61326-2-2, KCC Class A equipment, FCC 47 CFR 15 subpart B)</i>
			<i>Earth Ground Clamp</i>
			<i>Loop resistance standard</i>
			<i>Safety information guide & Quick reference guide</i>
			<i>Hard case & (4) AA batteries</i>
			General Requirement:
			<i>At least one-year warranty</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry.</i>
3	1	unit	Industrial and Heavy-Duty Precision Acoustic Imager
			Specification:
			<i>Quick and easy partial discharge detection & PD testing</i>
			<i>Sensors: Frequency band (2 kHz to 100 kHz), Detection range (0.5 to > 120 meters -1.6 to > 393 feet), Field view (63 ° ± 5 °), Nominal frame rate (25FPS)</i>
			<i>Built-in digital camera (visible light): (FOV63 ° ± 5 °and fixed lens)</i>
			<i>Display:7" LCD with backlight, under-sunlight readable, Capacitive Touch screen, SoundMap image acoustic image, 1280 x 800 (1,024,000 pixels) resolution</i>
			<i>Image storage: Storage capacity at least 999 picture files and 20 video files, blended and soundmap jpg,</i>

			<i>png and mp4 format, 5 minutes video length and USB-C for data transfer</i>
			<i>Acoustic measurement: Measurement range (12.1 dB SPL to 114.6 dB SPL ± 1 dB SPL 2 kHz, 4.4 dB SPL to 101.2 dB SPL ± 2 dB SPL 19 kHz, 12.8 dB SPL to 119.2 dB SPL ± 1 dB SPL 35 kHz, 19.8 dB SPL to 116.1 dB SPL ± 3 dB SPL 52 kHz, 41.4 dB SPL to 129.0 dB SPL ± 1 dB SPL 80 kHz, 54.4 dB SPL to 135.5 dB SPL ± 1 dB SPL 100 kHz)</i>
			<i>Software: Intuitive user interface, Trend graphs (Frequency and dB scale), Spot markers (dB level reading at center point of the image)</i>
			<i>Battery: Batteries (field-replaceable, Rechargeable, 2 x Li-ion battery), Battery life (6 hours/battery includes spare battery), Battery charging (External dual-bay, 3-hour charging time)</i>
			<i>Standard palettes: 3: Grayscale, Ironbow, Blue-Red</i>
			<i>Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)</i>
			<i>Storage temperature: -20 °C to 70 °C (-4 °F to 158 °F) Without batteries</i>
			<i>Relative humidity: 10 % to 95 % non-condensing</i>
			<i>Ingress Protection (IP): IP40 protection</i>
			<i>Self-diagnostic notification: Array-health test to identify when microphone array needs attention</i>
			<i>Supported languages: Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese</i>
			<i>Safety Compliant: IEC 61010-1 & RoHS compliant</i>
			<i>Electromagnetic Compatibility (EMC): IEC 61326-1: CISPR 11: Group 1, Class A, (KCC) Class A Equipment, (FCC) 47 CFR 15 subpart B.</i>
			<i>AC power supply and battery pack charger (including universal AC adapters)</i>
			<i>Two rugged lithium ion smart battery packs & USB cable</i>
			<i>Rugged, hard carrying case & adjustable hand strap and neck strap</i>
			General Requirement:
			<i>Warranty: 2 year</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry.</i>
4	1	unit	Industrial and Heavy-Duty Three-Power Quality Analyzer
			Specification:
			<i>Voltage inputs: Number of inputs (4 inputs, 3 phases and neutral referenced to PE 5 connectors), Measurement category (1000 V CAT III / 600 V CAT IV), Maximum input voltage (1000 V rms / 1000 V dc</i>

			(1700 Vpk)), Nominal voltage range (Wye and single phase: variable 50V – 1000V) (Delta: Variable 100V – 1000V) IEC 61000-4-30 Class A compliance, Input impedance (10 MΩ between P-P & P-N, 5 MΩ between P-PE & N-PE), Bandwidth (DC to 30 kHz for PQ measurements), Resolution (24-bit synchronous sampling), Sampling frequency (80 kS/s at 50/60 Hz), Scaling (1:1, variable for use of potential transformers)
			Standard compliance: Power (IEEE 1459), Harmonics (IEC 61000-4-7: Class 1), IEEE 519 (short time and very short time harmonics), Flicker (IEC 61000-4-15 Class F1) Power quality (IEC 61000-4-30 Class A, IEC 62586 PQI-A-PI), Power quality compliance (EN 50160 + GOST + NEQUAL + NETCODE + FOL)
			Environmental specifications: Operating temperature range –(10 °C to 50 °C), Storage temperature range (-20°C to 60°C)
			IP Rating (IEC 60529: IP50)
			Vibration (IEC 60721-3-3 / 3M2)
			Power supply: Voltage range (100V – 600V -15 % / +10%), Power consumption (Max. 40VA), Mains frequency 50/60 Hz
			UPS: Li-Ion battery BP1770 with extended temperature range, On-battery runtime: 1.5 hours
			Safety: IEC 61010-1: Pollution Degree 2
			Power supply: Overvoltage Category IV 600 V with Mains Adapter MA-C8: Overvoltage Category II 300V
			General Requirement:
			Warranty Analyzer: 2 years (battery not included)
			Accessories: 1 year (including battery)
			Calibration cycle 2 years
			Provide technical assistance and training on product usage and service center within the Cebu or Manila.
			Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry
5	1	unit	Industrial and Heavy-Duty Thermal Camera
			Specification:
			Detector resolution: 640 x 480
			Super Resolution: Captures and combines 4x the data to create a 1280 x 960 (614,400 pixels) image
			Infrared Resolution: 307,200 pixels
			Laser distance meter
			Advanced manual focus
			Ruggedized touchscreen display with 3.5 inch (landscape) 640 x 480 LCD
			Rugged, ergonomic design for one-handed use Yes
			Digital zoom 2x and 4x

			<i>Temperature measurement range: ≤-20 °C to 1000 °C (-4 °F to 1832 °F)</i>
			<i>Accuracy: ±2 °C or 2% (at 25 °C nominal, whichever is greater)</i>
			<i>Thermal sensitivity (NETD)* ≤0.05 °C at 30 °C target temp (50 mK)</i>
			<i>Wireless connectivity and compatibility with IOS, Android and LAN</i>
			<i>Lenses: Standard lens IFOV (spatial resolution) 0.93 mRad, D:S 1065:1, Field of view 34 °H x 24 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Picture-In-Picture and full screen 2x telephoto smart lens IFOV (spatial resolution) 0.46 mRad, D:S 1529:1, Field of view 17 °H x 12 °V, Minimum focus distance 45 cm (approx. 18 in), IR-Fusion® technology Picture-In-Picture and full screen</i>
			<i>4x telephoto smart lens IFOV (spatial resolution) 0.23 mRad, D:S 2941:1, Field of view 6 °H x 4.5 °V, Minimum focus distance 1.5 cm (approx. 60 in),</i>
			<i>Wide-angle smart lens IFOV 1.85 mRad, D:S 377:1, Field of view 48 °H x 34 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Full screen</i>
			<i>Battery: Batteries (field-replaceable, rechargeable), Two lithium ion smart battery packs with five-segment LED display to show charge level, Battery life 2-3 hours per battery, 2.5 hours to full charge, Battery charging system Two-bay battery charger or in-imager charging.</i>
			<i>Infrared spectral band: 7.5 μm to 14 μm (long wave)</i>
			<i>Operating temperature -10 °C to +50 °C (14 °F to 122 °F)</i>
			<i>Storage temperature -20 °C to +50 °C (-4 °F to 122 °F)</i>
			<i>Relative humidity 10% to 95% non-condensing</i>
			<i>Safety IEC 61010-1: Overvoltage category II, Pollution Degree 2</i>
			<i>Electromagnetic compatibility: IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A</i>
			General Requirement:
			<i>Warranty: 2 years</i>
			<i>Calibration cycle: Every 2 years</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>
6	1	set	Industrial and Heavy-Duty Cable Locator Set
			Specification:
			<i>Professional cable locator</i>

			Voltage measurement range for Transmitter: 12 V, 50 V, 120 V, 230 V, 400 V
			Frequency range for Transmitter: 0 - 60 Hz
			Output signal for Transmitter: 125 kHz
			Voltage for Transmitter: Up to 400 V AC/DC
			Tracing depth cable location for Receiver: 0 - 2.5 m wall/underground cables
			Main voltage detection for Receiver: 0 - 0.4 m
			Operating temperature: Transmitter & Receiver (0 to 40°C)
			Storage temperature: Transmitter & Receiver (-20°C to +60°C)
			Humidity (without condensation): Transmitter & Receiver (Max. 80% relative)
			Operating altitude: Transmitter & Receiver: (Up to 2000 m)
			Electrical safety EN 61010-1
			Overvoltage category Cat. III 300 V
			General Requirement:
			Warranty 2 years
			Provide technical assistance and training on product usage and service center within the Cebu or Manila.
			Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry
7	1	unit	Industrial and Heavy-Duty Infrared Camera
			Specification:
			Detector resolution: 640 x 480
			Super Resolution: Captures and combines 4x the data to create a 1280 x 960 (614,400 pixels) image
			Infrared Resolution: 307,200 pixels
			Laser distance meter
			Advanced manual focus
			Ruggedized touchscreen display with 3.5 inch (landscape) 640 x 480 LCD
			Rugged, ergonomic design for one-handed use Yes
			Digital zoom 2x and 4x
			Temperature measurement range: ≤-20 °C to 1000 °C (-4 °F to 1832 °F)
			Accuracy: ±2 °C or 2% (at 25 °C nominal, whichever is greater)
			Thermal sensitivity (NETD)* ≤0.05 °C at 30 °C target temp (50 mK)
			Wireless connectivity and compatibility with IOS, Android and LAN
			Lenses: Standard lens IFOV (spatial resolution) 0.93 mRad, D:S 1065:1, Field of view 34 °H x 24 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Picture-In-Picture and full screen 2x telephoto smart lens IFOV (spatial

			<i>resolution) 0.46 mRad, D:S 1529:1, Field of view 17 °H x 12 °V, Minimum focus distance 45 cm (approx. 18 in), IR-Fusion® technology Picture-In-Picture and full screen</i>
			<i>4x telephoto smart lens IFOV (spatial resolution) 0.23 mRad, D:S 2941:1, Field of view 6 °H x 4.5 °V, Minimum focus distance 1.5 cm (approx. 60 in),</i>
			<i>Wide-angle smart lens IFOV 1.85 mRad, D:S 377:1, Field of view 48 °H x 34 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Full screen</i>
			<i>Battery: Batteries (field-replaceable, rechargeable), Two lithium ion smart battery packs with five-segment LED display to show charge level, Battery life 2-3 hours per battery, 2.5 hours to full charge, Battery charging system Two-bay battery charger or in-imager charging.</i>
			<i>Infrared spectral band: 7.5 µm to 14 µm (long wave)</i>
			<i>Operating temperature -10 °C to +50 °C (14 °F to 122 °F)</i>
			<i>Storage temperature -20 °C to +50 °C (-4 °F to 122 °F)</i>
			<i>Relative humidity 10% to 95% non-condensing</i>
			<i>Safety IEC 61010-1: Overvoltage category II, Pollution Degree 2</i>
			<i>Electromagnetic compatibility: IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A</i>
			General Requirement:
			<i>Warranty: 2 years</i>
			<i>Calibration cycle: Every 2 years</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>
8	1	unit	Industrial and Heavy-Duty Battery Operated Self-Propelled Articulating Boom Lift
			Specification:
			<i>Max. Working Height: at least 22m</i>
			<i>Max. Platform Height: at least 20m</i>
			<i>Max. up and over clearance: at least 9.4m</i>
			<i>Max. Working Radius: at least 12.23m</i>
			<i>Platform Width: at least 0.76m</i>
			<i>Platform Length: at least 1.8m</i>
			<i>Height: Stowed at least 2.38m</i>
			<i>Length: Stowed at least 8.99m</i>
			<i>Width: at least 2.49m</i>
			<i>Wheelbase: at least 2.5m</i>
			<i>Ground Clearance: Center at least 0.3m</i>

			<i>Max. Lift Capacity: 256kg/350kg</i>
			<i>Number of platform occupants: 2/3</i>
			<i>Platform rotation: $\pm 80^\circ$</i>
			<i>Turntable rotation: 355°</i>
			<i>Vertical jib rotation (up/down): $\pm 70^\circ$</i>
			<i>Drive speed: Stowed at least 4.5km/h</i>
			<i>Gradeability: Stowed at least 40%</i>
			<i>Max. Working angle (Tilt sensor activation): 3°</i>
			<i>Turning radius (outside): 5.0m</i>
			<i>Drive and steer: 4×2</i>
			<i>Weight: at least 10000kg</i>
			<i>Battery: 48V/420Ah</i>
			<i>Control voltage: at least 24V</i>
			<i>Pump power: at least 12kw</i>
			<i>Drive motor: at least 3.3kw</i>
			<i>Standard compliance: GB25849-2010, BS EN 280:2013+A1:2015</i>
			<i>General Requirement:</i>
			<i>Warranty: 2 years</i>
			<i>Life-long technical support and assistance</i>

Section VII. Technical Specifications

Technical Specifications

Item #	Qty	Unit	Description	Statement of Compliance
1	1	set	Industrial and Heavy-Duty Earth Ground Tester Kit	<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</p>
			Specification:	
			<i>Memory: Internal memory storage up to 1500 records accessible via USB port</i>	
			<i>Measuring Function: Interference voltage and frequency, earthing resistance 3- and 4-pole with/without clip-on current transformer, resistance 2-pole with AC, 2-and 4-pole with DC</i>	
			<i>Display: 4-digit (2999 Digit) - 7 segment liquid crystal display, with improved Visibility.</i>	
			<i>Operation: Central rotary switch and function keys.</i>	
			<i>Operating Temperature: -10°C to 50°C (14°F to 122°F)</i>	
			<i>Storage Temperature: -30°C to 60°C (-22°F to 140°F)</i>	
			<i>Temperature Coefficient: ±0.1% of reading/°C < 18°C > 28°C</i>	
			<i>Protection: Complied with EN60529 (IP56 for case, IP40 for battery door)</i>	
			<i>Max Voltage: Warning-socket clamp E, ES, S or H</i>	
			<i>Max Urms = 250V (pertains to misuse)</i>	
			<i>Safety: Protection by double and/or reinforced insulation. Max. 50 V to earth per IEC61010-1. Pollution degree 2</i>	
			<i>Quality Standard: DIN ISO 9001 compliance in development, designed and manufacturing</i>	
			<i>External field influence: Complies with DIN 43780 (8/76)</i>	
			<i>Measure of Interference Voltage DC + AC: Full wave rectification of measuring limits of error & method, Measuring range (1V – 50V), Display range (0.0V – 50V), Frequency range (DC/AC 45hz – 400Hz), Accuracy (±5% of rdg + 5 digit), Internal resistance (Approx. 1.5 MΩ)</i>	
			<i>Measure of Interference Frequency: Measurement of oscillation period of the interference voltage, Measuring Range (6.0 Hz to 400 Hz), Display range (16.0 Hz to 299.9 Hz to 999 Hz), Accuracy (±1% of rdg + 2 digit)</i>	
			<i>Earthing Resistance: Current and voltage measurement with probe as IEC61557-5, Open circuit voltage (20/48 V, AC), Short circuit current (250 mA AC), Noise rejection (120 dB)</i>	
			<i>Electrical Measurement: Position (Reference position ±90), Temperature (0°C and 35°C),</i>	

			Resistance of the probes & auxiliary earth electrodes (0 to 100 x RA ≤ 50 kΩ), System frequency (99% to 101% of the nominal frequency), System voltage (85% to 110% of the nominal voltage), Operating error (B[%] = ± B/fiducial value x 100%, A = intrinsic error, En = variations, R = routine test, T = type test), Accuracy (±2% of rdg + 2 digit), Measuring time (Typical 8 seconds with a fixed frequency 30 sec. max. with AFC & complete cycle of all measuring frequencies) Measuring error of RH & RS (Typ. 10% of RE + RS + RH), Max. probe resistance & auxiliary earth electrode resistance (≤ 1 MΩ)	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.]
			Automatic Switchover of Measuring Resolution in Dependence to Auxiliary Earth Electrode Resistance RH	
			Selective Measurement of the Earthing Resistance (RE Clamp):(Current and voltage measurement with probe as per EN61557-5 & current measurement in the individual branch with additional current transformer.	
			Resistance Measurement (R AC/DC): (Current and voltage measuring method as per IEC61557-4 possible)	
			Compensation of Lead Resistance (RK)	
			Stakeless Ground Loop Measurement (Two Clamp Stakeless)	
			GEO Earth Ground Tester	
			User's Manual & Quick Reference Guide	
			USB Cable	
			Professional Carrying Case	
			2 Clamps, 4 Earth Ground Stakes & 3 Cable Reels	
			General Requirement:	
			At least one-year warranty	
			Provide technical assistance and training on product usage and service center within the Cebu or Manila.	
			Product Manufacturer at least 15 years in the Electro-mechanical maintenance industry.	
2	1	set	Industrial and Heavy-Duty Earth Ground Loop and Leakage Clamp	
			Specification:	
			Test the grounding components of equipment in hard-to-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes.	
			AC Leakage Current Measurement: Identify AC leakage without disconnecting your earth ground stake from the grounding system.	
			Heavy-duty clamp jaw stays in alignment and in calibration even in every day, on-the-job industrial environments	

			<i>User-defined high/low alarm limits, for rapid measurement evaluation</i>
			<i>Selectable band-pass filter function removes unwanted noise from the AC leakage current measurement.</i>
			<i>Electrical specification: Maximum voltage to earth ground (1000V), Battery type (AA alkaline IEC/EN LR6 (x4)), Frequency range (40 Hz to 1 kHz), Ingress Protection (IEC/EN 60529: IP30 with jaw closed), LCD (Digital reading, 999 counts; Refresh rate, 4 per second), Operating temperature (-10 °C to + 50 °C), Storing temperature (-20 °C to + 60 °C), Operating humidity (Non-condensing), Operating altitude (2000 m or 6561 feet), Storing altitude (12 000 m or 39,370 feet), Reference Temperature (23 °C ±5 °C or 73 °F ±9 °F), Measurement (IEC/EN 61010-2-032: CAT IV 600 V / CAT III 1000 V), Current clamp for leakage current measurements (IEC/EN 61557-13: Class 2, ≤30 A/m), Resistance to earth (IEC/EN 61557-5), Effectiveness of the Protective Measures (IEC/EN 61557-16), Electromagnetic compatibility (EMC) (IEC/EN 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class B, IEC/EN 61326-2-2, KCC Class A equipment, FCC 47 CFR 15 subpart B)</i>
			<i>Earth Ground Clamp</i>
			<i>Loop resistance standard</i>
			<i>Safety information guide & Quick reference guide</i>
			<i>Hard case & (4) AA batteries</i>
			General Requirement:
			<i>At least one-year warranty</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry.</i>
3	1	unit	Industrial and Heavy-Duty Precision Acoustic Imager
			Specification:
			<i>Quick and easy partial discharge detection & PD testing</i>
			<i>Sensors: Frequency band (2 kHz to 100 kHz), Detection range (0.5 to > 120 meters -1.6 to > 393 feet), Field view (63 ° ± 5 °), Nominal frame rate (25FPS)</i>
			<i>Built-in digital camera (visible light): (FOV63 ° ± 5 ° and fixed lens)</i>
			<i>Display: 7" LCD with backlight, under-sunlight readable, Capacitive Touch screen, SoundMap image acoustic image, 1280 x 800 (1,024,000 pixels) resolution</i>
			<i>Image storage: Storage capacity at least 999 picture files and 20 video files, blended and soundmap jpg,</i>

			<i>png and mp4 format, 5 minutes video length and USB-C for data transfer</i>
			<i>Acoustic measurement: Measurement range (12.1 dB SPL to 114.6 dB SPL ± 1 dB SPL 2 kHz, 4.4 dB SPL to 101.2 dB SPL ± 2 dB SPL 19 kHz, 12.8 dB SPL to 119.2 dB SPL ± 1 dB SPL 35 kHz, 19.8 dB SPL to 116.1 dB SPL ± 3 dB SPL 52 kHz, 41.4 dB SPL to 129.0 dB SPL ± 1 dB SPL 80 kHz, 54.4 dB SPL to 135.5 dB SPL ± 1 dB SPL 100 kHz)</i>
			<i>Software: Intuitive user interface, Trend graphs (Frequency and dB scale), Spot markers (dB level reading at center point of the image)</i>
			<i>Battery: Batteries (field-replaceable, Rechargeable, 2 x Li-ion battery), Battery life (6 hours/battery includes spare battery), Battery charging (External dual-bay, 3-hour charging time)</i>
			<i>Standard palettes: 3: Grayscale, Ironbow, Blue-Red</i>
			<i>Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)</i>
			<i>Storage temperature: -20 °C to 70 °C (-4 °F to 158 °F) Without batteries</i>
			<i>Relative humidity: 10 % to 95 % non-condensing</i>
			<i>Ingress Protection (IP): IP40 protection</i>
			<i>Self-diagnostic notification: Array-health test to identify when microphone array needs attention</i>
			<i>Supported languages: Dutch, English, Finish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese</i>
			<i>Safety Compliant: IEC 61010-1 & RoHS compliant</i>
			<i>Electromagnetic Compatibility (EMC): IEC 61326-1: CISPR 11: Group 1, Class A, (KCC) Class A Equipment, (FCC) 47 CFR 15 subpart B.</i>
			<i>AC power supply and battery pack charger (including universal AC adapters)</i>
			<i>Two rugged lithium ion smart battery packs & USB cable</i>
			<i>Rugged, hard carrying case & adjustable hand strap and neck strap</i>
			General Requirement:
			<i>Warranty: 2 year</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry.</i>
4	1	unit	Industrial and Heavy-Duty Three-Power Quality Analyzer
			Specification:
			<i>Voltage inputs: Number of inputs (4 inputs, 3 phases and neutral referenced to PE 5 connectors), Measurement category (1000 V CAT III / 600 V CAT IV), Maximum input voltage (1000 V rms / 1000 V dc</i>

			(1700 Vpk)), Nominal voltage range (Wye and single phase: variable 50V – 1000V) (Delta: Variable 100V – 1000V) IEC 61000-4-30 Class A compliance, Input impedance (10 MΩ between P-P & P-N, 5 MΩ between P-PE & N-PE), Bandwidth (DC to 30 kHz for PQ measurements), Resolution (24-bit synchronous sampling), Sampling frequency (80 kS/s at 50/60 Hz), Scaling (1:1, variable for use of potential transformers)
			Standard compliance: Power (IEEE 1459), Harmonics (IEC 61000-4-7: Class 1), IEEE 519 (short time and very short time harmonics), Flicker (IEC 61000-4-15 Class F1) Power quality (IEC 61000-4-30 Class A, IEC 62586 PQI-A-PI), Power quality compliance (EN 50160 + GOST + NEQUAL + NETCODE + FOL)
			Environmental specifications: Operating temperature range –(10 °C to 50 °C), Storage temperature range (-20°C to 60°C)
			IP Rating (IEC 60529: IP50)
			Vibration (IEC 60721-3-3 / 3M2)
			Power supply: Voltage range (100V – 600V -15 % / +10%), Power consumption (Max. 40VA), Mains frequency 50/60 Hz
			UPS: Li-Ion battery BP1770 with extended temperature range, On-battery runtime: 1.5 hours
			Safety: IEC 61010-1: Pollution Degree 2
			Power supply: Overvoltage Category IV 600 V with Mains Adapter MA-C8: Overvoltage Category II 300 V
			General Requirement:
			Warranty Analyzer: 2 years (battery not included)
			Accessories: 1 year (including battery)
			Calibration cycle 2 years
			Provide technical assistance and training on product usage and service center within the Cebu or Manila.
			Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry
5	1	unit	Industrial and Heavy-Duty Thermal Camera
			Specification:
			Detector resolution: 640 x 480
			Super Resolution: Captures and combines 4x the data to create a 1280 x 960 (614,400 pixels) image
			Infrared Resolution: 307,200 pixels
			Laser distance meter
			Advanced manual focus
			Ruggedized touchscreen display with 3.5 inch (landscape) 640 x 480 LCD
			Rugged, ergonomic design for one-handed use Yes

			<i>Digital zoom 2x and 4x</i>
			<i>Temperature measurement range: ≤-20 °C to 1000 °C (-4 °F to 1832 °F)</i>
			<i>Accuracy: ±2 °C or 2% (at 25 °C nominal, whichever is greater)</i>
			<i>Thermal sensitivity (NETD)* ≤0.05 °C at 30 °C target temp (50 mK)</i>
			<i>Wireless connectivity and compatibility with IOS, Android and LAN</i>
			<i>Lenses: Standard lens IFOV (spatial resolution) 0.93 mRad, D:S 1065:1, Field of view 34 °H x 24 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Picture-In-Picture and full screen 2x telephoto smart lens IFOV (spatial resolution) 0.46 mRad, D:S 1529:1, Field of view 17 °H x 12 °V, Minimum focus distance 45 cm (approx. 18 in), IR-Fusion® technology Picture-In-Picture and full screen</i>
			<i>4x telephoto smart lens IFOV (spatial resolution) 0.23 mRad, D:S 2941:1, Field of view 6 °H x 4.5 °V, Minimum focus distance 1.5 cm (approx. 60 in),</i>
			<i>Wide-angle smart lens IFOV 1.85 mRad, D:S 377:1, Field of view 48 °H x 34 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Full screen</i>
			<i>Battery: Batteries (field-replaceable, rechargeable), Two lithium ion smart battery packs with five-segment LED display to show charge level, Battery life 2-3 hours per battery, 2.5 hours to full charge, Battery charging system Two-bay battery charger or in-imager charging.</i>
			<i>Infrared spectral band: 7.5 μm to 14 μm (long wave)</i>
			<i>Operating temperature -10 °C to +50 °C (14 °F to 122 °F)</i>
			<i>Storage temperature -20 °C to +50 °C (-4 °F to 122 °F)</i>
			<i>Relative humidity 10% to 95% non-condensing</i>
			<i>Safety IEC 61010-1: Overvoltage category II, Pollution Degree 2</i>
			<i>Electromagnetic compatibility: IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A</i>
			General Requirement:
			<i>Warranty: 2 years</i>
			<i>Calibration cycle: Every 2 years</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>
6	1	set	Industrial and Heavy-Duty Cable Locator Set
			Specification:
			<i>Professional cable locator</i>

			<i>Voltage measurement range for Transmitter: 12 V, 50 V, 120 V, 230 V, 400 V</i>
			<i>Frequency range for Transmitter: 0 - 60 Hz</i>
			<i>Output signal for Transmitter: 125 kHz</i>
			<i>Voltage for Transmitter: Up to 400 V AC/DC</i>
			<i>Tracing depth cable location for Receiver: 0 - 2.5 m wall/underground cables</i>
			<i>Main voltage detection for Receiver: 0 - 0.4 m</i>
			<i>Operating temperature: Transmitter & Receiver (0 to 40°C)</i>
			<i>Storage temperature: Transmitter & Receiver (-20°C to +60°C)</i>
			<i>Humidity (without condensation): Transmitter & Receiver (Max. 80% relative)</i>
			<i>Operating altitude: Transmitter & Receiver: (Up to 2000 m)</i>
			<i>Electrical safety EN 61010-1</i>
			<i>Overvoltage category Cat. III 300 V</i>
			General Requirement:
			<i>Warranty 2 years</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>
7	1	unit	Industrial and Heavy-Duty Infrared Camera
			Specification:
			<i>Detector resolution: 640 x 480</i>
			<i>Super Resolution: Captures and combines 4x the data to create a 1280 x 960 (614,400 pixels) image</i>
			<i>Infrared Resolution: 307,200 pixels</i>
			<i>Laser distance meter</i>
			<i>Advanced manual focus</i>
			<i>Ruggedized touchscreen display with 3.5 inch (landscape) 640 x 480 LCD</i>
			<i>Rugged, ergonomic design for one-handed use Yes</i>
			<i>Digital zoom 2x and 4x</i>
			<i>Temperature measurement range: ≤-20 °C to 1000 °C (-4 °F to 1832 °F)</i>
			<i>Accuracy: ±2 °C or 2% (at 25 °C nominal, whichever is greater)</i>
			<i>Thermal sensitivity (NETD)* ≤0.05 °C at 30 °C target temp (50 mK)</i>
			<i>Wireless connectivity and compatibility with IOS, Android and LAN</i>
			<i>Lenses: Standard lens IFOV (spatial resolution) 0.93 mRad, D:S 1065:1, Field of view 34 °H x 24 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Picture-In-Picture and full screen 2x telephoto smart lens IFOV (spatial</i>

			<i>resolution) 0.46 mRad, D:S 1529:1, Field of view 17 °H x 12 °V, Minimum focus distance 45 cm (approx. 18 in), IR-Fusion® technology Picture-In-Picture and full screen</i>
			<i>4x telephoto smart lens IFOV (spatial resolution) 0.23 mRad, D:S 2941:1, Field of view 6 °H x 4.5 °V, Minimum focus distance 1.5 cm (approx. 60 in),</i>
			<i>Wide-angle smart lens IFOV 1.85 mRad, D:S 377:1, Field of view 48 °H x 34 °V, Minimum focus distance 15 cm (approx. 6 in), IR-Fusion® technology Full screen</i>
			<i>Battery: Batteries (field-replaceable, rechargeable), Two lithium ion smart battery packs with five-segment LED display to show charge level, Battery life 2-3 hours per battery, 2.5 hours to full charge, Battery charging system Two-bay battery charger or in-imager charging.</i>
			<i>Infrared spectral band: 7.5 µm to 14 µm (long wave)</i>
			<i>Operating temperature -10 °C to +50 °C (14 °F to 122 °F)</i>
			<i>Storage temperature -20 °C to +50 °C (-4 °F to 122 °F)</i>
			<i>Relative humidity 10% to 95% non-condensing</i>
			<i>Safety IEC 61010-1: Overvoltage category II, Pollution Degree 2</i>
			<i>Electromagnetic compatibility: IEC 61326-1: Basic EM environment. CISPR 11: Group 1, Class A</i>
			General Requirement:
			<i>Warranty: 2 years</i>
			<i>Calibration cycle: Every 2 years</i>
			<i>Provide technical assistance and training on product usage and service center within the Cebu or Manila.</i>
			<i>Product Manufacturer/developer at least 15 years in the Electro-mechanical maintenance industry</i>
8	1	unit	Industrial and Heavy-Duty Battery Operated Self-Propelled Articulating Boom Lift
			Specification:
			<i>Max. Working Height: at least 22m</i>
			<i>Max. Platform Height: at least 20m</i>
			<i>Max. up and over clearance: at least 9.4m</i>
			<i>Max. Working Radius: at least 12.23m</i>
			<i>Platform Width: at least 0.76m</i>
			<i>Platform Length: at least 1.8m</i>
			<i>Height: Stowed at least 2.38m</i>
			<i>Length: Stowed at least 8.99m</i>
			<i>Width: at least 2.49m</i>
			<i>Wheelbase: at least 2.5m</i>
			<i>Ground Clearance: Center at least 0.3m</i>

			<i>Max. Lift Capacity: 256kg/350kg</i>
			<i>Number of platform occupants: 2/3</i>
			<i>Platform rotation: ±80°</i>
			<i>Turntable rotation: 355°</i>
			<i>Vertical jib rotation (up/down): ±70°</i>
			<i>Drive speed: Stowed at least 4.5km/h</i>
			<i>Gradeability: Stowed at least 40%</i>
			<i>Max. Working angle (Tilt sensor activation):3°</i>
			<i>Turning radius (outside): 5.0m</i>
			<i>Drive and steer: 4×2</i>
			<i>Weight: at least 10000kg</i>
			<i>Battery: 48V/420Ah</i>
			<i>Control voltage: at least 24V</i>
			<i>Pump power: at least 12kw</i>
			<i>Drive motor: at least 3.3kw</i>
			<i>Standard compliance: GB25849-2010, BS EN 280:2013+A1:2015</i>
			<i>General Requirement:</i>
			<i>Warranty: 2 years</i>
			<i>Life-long technical support and assistance</i>

***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

- (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 Four Million One Hundred Thirty Thousand Pesos (PhP 4,130,000.00)*; **or**
Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC or at least Four Million One Hundred Thirty Thousand Pesos (PhP 4,130,000.00)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least Two Million and Sixty Five Thousand Pesos (PhP 2,065,000.00)*; **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 8,260,000.00**); **or**
A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation (at least 10% of ABC or **PhP 826,000.00**).

II. FINANCIAL COMPONENT ENVELOPE

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

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

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

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

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII. The second folder should contain all requirements under Financial Component checklist.
4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Mr. Leopoldo Escala at leopoldo.escala@vsu.edu.ph before the deadline (October 23, 2023; 8:30 AM)



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