SUPPLEMENTAL/BID BULLETIN NO. 1

Date: October 26, 2026
Title: IB-2026-10-28 SUPPLY, DELIVERY, AND INSTALLATION OF VARIOUS LABORATORY SUPPLIES AND EQUIPMENT
Reference No.: 111847

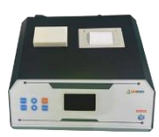
This bulletin is being issued to revise/clarify certain portions of the bidding documents. This shall form an integral part of the bidding documents for the above-mentioned procurement project.

Section VI. Schedule of Requirements

IB-2026-03-13 SUPPLY, DELIVERY, AND INSTALLATION OF VARIOUS LABORATORY EQUIPMENT, INSTRUMENTS, CHEMICALS, AND SUPPLIES FOR EVSU MAIN CAMPUS				
Lot No.	**Unit**	**Item Description**	**Qty**	**Delivery Schedule**
1	**LOT**	**09-0601-26-IPDS**	**1**	
1	unit	Supply, delivery, and testing of Compact Electric Fish Feed Pellet Machine	1	
2	**LOT**	**09-0602-26- IPDS**	**1**	
1	unit	Supply, delivery, installation, and commissioning of Vertical Steam Pressure Autoclave	1	
3	**LOT**	**09-0603-26-IPDS**	**1**	
1	unit	Supply, delivery, and testing of Portable handled chlorophyll meter	2	
4	**LOT**	**09-0604-26-IPDS**	**1**	
1	unit	Supply, delivery, and testing of Portable waterproof multiparameter water quality meter	1	
5	**LOT**	**09-0605-26-IPDS**	**1**	
1	unit	Supply, delivery, installation, and testing of Digital laboratory ultrasonic cleaner	2	
6	**LOT**	**09-0606-26-IPDS**	**1**	
1	Lot	Supply, delivery, and testing of Digital soil nutrient and fertilizer analyzer, laboratory/portable type	1	
7	**LOT**	**09-0609-26-IPDS**	**1**	
1	lot	Supply, delivery, installation, setup, testing, and calibration of Inverted Fluorescence & Phase Contrast Tissue Culture Microscope	1	
2	set	Supply, delivery, installation setup, and testing of Benchtop pH and Conductivity Meter. Two- Chamel, Laboratory Type	1	
3	lot	Supply, delivery, installation/setup, calibration, and/or commissioning of Automatic Self-Cleaning Laboratory Water Distillation Unit.	1	
4	lot	Supply, delivery, installation/setup, calibration, testing, and/or commissioning of Digital single-beam UV-Visible spectrophotometer.	1	
5	lot	Supply, delivery, assembly/ installation, testing, and calibration of Ducted Chemical Fume Hood, Laboratory.	1	
6	lot	Supply, delivery, installation, and commissioning/testing of Vertical Laminar Flow Cabinet-Laboratory Type.	1	
7	lot	Supply, delivery, setup, testing, and calibration of Analytical Balance.	1	
8	**LOT**	**09-0610-26 IPDS**	**1**	
1	unit	Supply, delivery, and testing of Handheld Multi- Band Multi-GNSS GPS Receiver.	4	
9	**LOT**	**09-0611-26 IPDS**	**1**	
1	unit	Supply, delivery, and testing of Handheld Thermal Imaging Camera.	1	

Section VII. Technical Specifications

IB-2026-03-13 SUPPLY, DELIVERY, AND INSTALLATION OF VARIOUS LABORATORY EQUIPMENT, INSTRUMENTS, CHEMICALS, AND SUPPLIES FOR EVSU MAIN CAMPUS				
Lot No.	**Unit**	**Item Description**	**Qty**	**Statement of Compliance**
1	**LOT**	**09-0601-26-IPDS**	**1**	
1	unit	**Supply, delivery, and testing of Compact Electric Fish Feed Pellet Machine**  *Capacity: 20-40 kg/hour (minimum) *Motor Power: 2.2-3.0 kW *Power Supply: 220V, Single Phase, 60 Hz *Pellet Diameter: 1 mm , 2 mm, 3 mm, 4 mm, interchangeable dies *Pellet Length: Adjustable *Feed Type: Suitable for sinking and semi-floating fish feed *Construction: Stainless 316 *Feeding System: Hopper with manual or automatic feeding *Pellet Moisture Requirement: 10-15% *Includes: - Four (4) pellet dies - Basic took kit - User's manual - Spare roller * Safety Features: - Emergency stop switch - Overload protection -Protection safety cover *Warranty: Minimum one (1) year	1	
2	**LOT**	**09-0602-26- IPDS**	**1**	
1	unit	**Supply, delivery, installation, and commissioning of Vertical Steam Pressure Autoclave**  *Capacity: 35 Liters (minimum) *Chamber Material: SUS316 Stainless Steel Sterilization *Temperature: 105˚C-134˚C *Working Pressure: 0.22 MPa *Temperature Accuracy: ±1˚C *Timer: 0-60 minutes or better *Digital temperature and timer display *Electric heating system *Stainless steel sterilization baskets (minimum two) *Pressure gauge *Safety valve *Over-temperature protection *Over-pressure protection *Low-water level protection *Automatic shut-off after sterilization *Power Supply: 220 , Single Phase, 60 Hz *Complete with accessories, operation manual, and power cord *Warranty: Minimum one (1) year	1	
3	**LOT**	**09-0603-26-IPDS**	**1**	
1	unit	**Supply, delivery, and testing of Portable handled chlorophyll meter**  *Non-destructive measurement of leaf chlorophyll content *Measuring Range: -9.9 to 199.9 SPAD Units *Display Resolution: 0.1 SPAD Unit *Measuring Accuracy: ±1.0 SPAD Unit (0.0-50.0 SPAD) *Repeatability: ±0.3 SPAD Unit *Measuring Area: 2 mm x 3 mm *Light Source: Two LED light sources *Detector: Silicon photodiode *Measurement Time: Less than 2 seconds *Memory Capacity: Minimum 30 measurements *Statistical Functions: -Average	2	

		-Standard Deviation -Data Count *LCD Digital Display *Automatic Power-Off *Battery: Two (2) AA alkaline batteries *Portable and lightweight design *Complete with carrying case *User manual *Battery set *Calibration and Validation Certificate *Warranty: Minimum one (1) year		
4	**LOT**	**09-0604-26-IPDS**	**1**	
1	unit	**Supply, delivery, and testing of Portable waterproof multiparameter water quality meter** *Measures: -Ph -Dissolved Oxygen (DO) -Electrical Conductivity (EC) -Total Dissolved Solids (TDS) -Salinity -Temperature *Automatic Temperature *Compensation *Large backlit LCD display *Data logging capability *USB data transfer *Automatic calibration *Replaceable battery *Complete calibration solutions *Complete sensor/probe assembly *Power adapter and USB cable *User Manual *With Calibration Certificate or Any Validation Certificates 	1	
5	**LOT**	**09-0605-26-IPDS**	**1**	
1	unit	**Supply, delivery, installation, and testing of Digital laboratory ultrasonic cleaner** Capacity: 10 liters minimum. Ultrasonic Frequency: 40 kHz. Ultrasonic Power: 400 W or higher. Heating Function: Yes. Temperature Range: Ambient to at least 80˚C. Digital Timer: 0-60 minutes or better. Digital control of Temperature and timer. Stainless-steel cleaning tank. Stainless-steel cover/lid. Stainless-steel wire basket included. Drain valve for convenient removal of cleaning solution. Suitable for cleaning laboratory glassware, instruments, metal components, electronic components, and other small laboratory parts. Electrical Requirement: 220-240 V AC, 50/60 Hz. Complete with power cord and standard accessories. User/operation manual included. Installation/testing upon delivery. With validation certificates. Minimum one (1) year warranty 	2	
6	**LOT**	**09-0606-26-IPDS**	**1**	
1	Lot	**Supply, delivery, and testing of Digital soil nutrient and fertilizer analyzer, laboratory/portable type** Application: Academic laboratory, soil analysis, agricultural research and instructional activities Parameters: Nitrogen (N), phosphorus (P), potassium (K), pH, soil moisture and salt/electrical conductivity Additional Nutrient Analysis: Capability for selected macro- and micronutrients, preferably including Ca, Mg, S, Fe, Mn, B, Zn, Cu and other applicable elements 	1	

		Fertilizer Analysis: Capable of analyzing chemical, organic, foliar, water-soluble and spray fertilizers Organic Matter. Measurement capability preferred Heavy Metal Screening: Capability for selected beavy metals such as Pb, Cr, Cd, Hg and As, where applicable Measurement Principle: Photoelectric/colorimetric or equivalent analytical method Measurement Range: Approximately 0.001-9999 or equivalent, depending on parameter pH Range: 1-14 pH Resolution: 0.01 pH pH Accuracy/Error. Approximately 10.1 pH or better Salt/Conductivity: Approximately 0.01%-1.00% Salt/Conductivity Error: Approximately +5% relative error or better Soil Moisture: 0-100% Moisture Error: <0.5% Resolution: 0.001 or better Display. Digital LFD/LCD display Control: Microprocessor/microcomputer-controlled Data Output: Digital data display and/or printed test results Printer. Built-in thermal printer preferred Test Capacity: Capability to analyze individual and multiple soil samples Sample Preparation: Compatible with standard soil extraction/preparation procedures Power Supply: 110-240 V AC, 50/60 Hz or suitable for Philippine 220 V/60 Hz Power. AC/DC operation preferred Accessories: Required sample holders, extraction containers, cuvettes/test vessels, power adapter, printer paper and standard accessories Reagents: Initial set of required soil/fertilizer testing reagents sufficient for initial laboratory use Calibration: Calibration/verification capability and instructions included Documentation: User manual and technical documentation Calibration and Validation Certificate: Included, where applicable Warranty. Minimum one (1) year Installation/Testing: Delivery, installation/setup. operational testing and user orientation included		
7	**LOT**	**09-0609-26-IPDS**	**1**	
1	lot	**Supply, delivery, installation setup, testing, and calibration of Inverted Fluorescence & Phase Contrast Tissue Culture Microscope.** Type: Laboratory-grade inverted microscope suitable for tissue/cell culture. Optical System: Infinity-corrected optical system or equivalent Observation Modes: Brightfield, Phase Contrast, and Epi-Fluorescence Illumination: LED transmitted-light illumination Fluorescence Illumination: LED or equivalent solid- state fluorescence illumination Fluorescence: Mininaun 2 fluorescence filter sets/cubes, preferably DAPI and FITC or equivalent Objectives: Minimum 4, 10-, 20 and 40-. including phase-contrast objectives Phase Contrast: Available at mininmun 10, 20 and 40- Eyepieces: WF10 or equivalent, minima 22- field number Condenser: Long-working-distance condenser suitable for tissue/cell culture vessels Stage: Mechanical stage suitable for Petri dishes culture plates, slides and/or multi-well plates Specimen Holders: Suitable holders for Petri dishes. culture plates and microscope slides Focusing: Coaxial coarse and fine focusing mechanism Camera Port: Trinocular phototube or equivalent camera attachment capability Camera: Digital color camera, preferably 25 MP. with USB/computer 	1	

		connectivity Image Documentation: Capable of capturing still images and video Software: Basic image acquisition/documentation software included Interpupillary Distance: Adjustable Power: 100-240 V AC, 50/60 Hz or suitable for Philippine 220 V supply Accessories: Dust cover, necessary power cables, filters, adapters, specimen holders and standard accessories Warranty: Minimum one (1) year Certification: With Calibration/ Validation Certificates Installation: Delivery, installation, testing. calibration and user orientation included		
2	set	**Supply, delivery, installation setup, and testing of Benchtop pH and Conductivity Meter. Two- Chamel, Laboratory Type** Type: Digital benchtop laboratory pH and conductivity meter. Measurement: Simultaneous or dual-channel pH and conductivity. pH Range: Approximately -2.000 to 19.999 PH pH Resolution 0.001/0.01/0.1 pH pH Accuracy: 0.002 pH or better my Range: Approximately -1.999 to -1.999 mV Conductivity Range: Approximately 0.001 µS/cm to 1,000 mS/cm  Conductivity Accuracy: 0.5% or better Temperature Range: Approximately -30°C to 130°C Temperature Resolution: 0.1°C Temperature Accuracy: 0.1°C Temperature Compensation: Automatic/manual Temperature compensation TDS: Measurement calculation capability Salinity: Measurement/calculation capability Resistivity: Measurement/calculation capability Calibration: Multi-point calibration with automatic calibration recognition Data Management: GLP-compliant measurement/data documentation Display: Large digital LCD display showing measurement and temperature Inputs: Compatible with pH electrode, conductivity electrode and temperature sensor Connectivity: USB and/or RS-232 or equivalent data-transfer interface Software: Basic PC data-transfer/documentation capability, if applicable Power: 100-240 V AC, 50/60 Hz or suitable for Philippine 220 V supply Electrode Stand: Included Protective Cover: Included pH Electrode: Included Conductivity Electrode: Included Temperature Sensor: applicable probe Included or integrated with Calibration Solutions: Initial pH and conductivity calibration solutions included User Manual: Included Test Calibration Certificate: Included Warranty: Minimum one (1) year Installation Testing: Delivery, setup and operational testing included	1	
3	lot	**Supply, delivery, installation/setup, calibration, and/or commissioning of Automatic Self-Cleaning Laboratory Water Distillation Unit.**  Laboratory-grade automatic water distillation unit. Minimum distillation capacity: 100 L/24 hours. Distilled water quality: 1-2 µS/cm or better at 25°C. Adjustable heating power: 750-3,000 W or better. Power supply: 208-240 VAC, 50-60 Hz. Energy consumption: 0.7 kWh/L or better.	1	

		Suitable for continuous/24-hour operation. Microprocessor-controlled operation. Touchscreen or digital control display. Automatic water-level control. Automatic distillation process control. Automatic self-cleaning system. Built-in cleaning-agent reservoir. Automatic sterilization function. Automatic protection against dry running and overheating. PID-controlled cooling-water management or equivalent. Integrated heat exchanger for water/energy conservation. Water-contact components made of 316 stainless steel or equivalent laboratory-grade corrosion- resistant material. Compact benchtop design. Distillate dispensing outlet. Appropriate inlet-water pressure control. Calibration/ validation, and safety certifications. Complete with necessary tubing, fittings, power cord, accessories, and cleaning-agent reservoir.		
4	lot	**Supply, delivery, installation/setup, calibration, testing, and/or commissioning of Digital single-beam UV-Visible spectrophotometer.** Wavelength Range: 190-1,100 nm or wider. Spectral Bandwidth: 2 nm Wavelength Accuracy: 1.0 nm or better. Wavelength Repeatability: 0.5 m Photometric Range. At least -0.3 to 3.0 Abs or equivalent.  Photometric Accuracy: ±0.5% T or better. Photometric Repeatability: 50.2% T Optical System: Single-beam grating monochromator. Detector: Silicon photodiode or equivalent. Light Sources: Deuterium lamp for UV and tungsten- halogen lamp for visible range, or equivalent. Lamp Switching: Automatic or wavelength- dependent. Wavelength Selection: Digital/microprocessor- controlled. Measurement Modes: Absorbance, % Transmittance and concentration. Scanning: Wavelength scanning capability preferred. Sample Holder: Standard 10-mum cuvette holder. Cuvettes: Minimum set of compatible quartz and optical-glass/plastic cuvettes Display: Digital LCD or color display Data Storage: Internal memory or USB data storage. Connectivity: USB and/or RS-232 Software: Basic PC data acquisition/documentation software, if applicable. Calibration: Automatic wavelength/photometric calibration or equivalent. Power Supply: 100-240 V AC, 50/60 Hz. Accessories: Dust cover, power cord, cuvette holder. cuvettes and standard accessories User Manual: Included Calibration and Validation Certificates. Warranty: Minimum one (1) year Installation/Testing: Delivery, installation, operational testing and user orientation included	1	
5	lot	**Supply, delivery, assembly/ installation, testing, and calibration of Ducted Chemical Fume Hood, Laboratory.**  approximately 1,200 mm width: single-user work station; external dimensions approximately 1.200 800 2,515 mm or equivalent; internal working area approximately 990 × 600 × 870 mm or equivalent; work surface height approximately 900 mm: maximum sash opening approximately 750 mm; adjustable face/air velocity of 0.3-0.8 m/s; exhaust volume approximately 700 m/h or higher; built-in corrosion-resistant centrifugal blower; adjustable blower speed; chemical-resistant phenolic resin worktop:	1	

		5-mm toughened/tempered glass vertical sash, height- adjustable: LED work lighting: PVC exhaust duct, approximately 0300 mm, with necessary ducting and pipe straps: chemical-resistant construction: water sink and water tap: electrical outlets; base cabinet: microprocessor/digital control system; visual/audible alarm for unsafe operating conditions where applicable: 220 VAC, 50/60 Hz. complete with installation, testing and commissioning: user manual; minimum one (1) year warranty: with certifications such as validation/ safety certificate		
6	lot	**Supply, delivery, installation, and commissioning/testing of Vertical Laminar Flow Cabinet-Laboratory Type.** Type: Vertical laminar airflow cabinet/clean bench. Configuration: Vertical, unidirectional downward airflow, User Capacity: Single user Working Width: Approximately 1,200 mm/4 ft. External Dimensions: Approximately 1,300 × 700-750x2,040 mm or equivalent. Internal Working Area: Approximately 1,200 × 600-650x600-650 mm. Working Surface Height: Approximately 750 mm. Airflow Velocity: 0.3-0.5 m/s, adjustable. Airflow: Vertical, unidirectional. Cleanliness: ISO Class 5/Class 100. HEPA Filter: Minimum 99.995% efficiency at 0.3 um. Pre-filter: Washable polyester-fiber or equivalent Work Surface: 316 stainless steel (preferred). corrosion-resistant Main Body: Cold-rolled steel with anti-bacterial powder coating or equivalent Front/Side Windows: Minimum 5-mm toughened/tempered glass, preferably anti-UV Front Window. Height-adjustable motorized or equivalent Maximum Opening: Approximately 350-430 mm Lighting: LED, minimum 300 lux UV Lamp: Germicidal UV-C lamp, approximately 253.7 nm, with timer/interlock Display: Digital/LCD display with microprocessor control Airflow Control: Adjustable airflow speed Noise Level: ≤65 dB(A) Vibration 55 um RMS, where applicable Electrical Outlet: Minimum two waterproof electrical sockets Power Supply: AC 220 V 10%, 50/60 Hz Power Consumption: Approximately 400-700 W. depending on configuration Base Stand: Included Caster: Universal caster with leveling feet Safety: Airflow monitoring/alarm and UV/blower interlock Accessories: LED lamp, UV lamp, base stand, electrical outlets and other standard accessories Installation: Delivery, installation, testing and commissioning included Documentation: User/operation manual and technical documentation Certification: With validation/ safety certifications Warranty: Minimum one (1) year 	1	
7	lot	**Supply, delivery, setup, testing, and calibration of Analytical Balance.** Maximum Capacity:220 g Rendability: 0.1 mg (0.0001 g) Repeatability: 0.1 mg Linearity Deviation: 0.2 mg Settling Time: approximately 2 seconds Calibration/Adjustment: Internal adjustment/calibration Weighing Pan: approximately 90 mm diameter Draft Shield: Included Display: Digital display 	1	

		Interface: RS-232 or equivalent digital communication interface Minimum Sample Weight: approximately 16 mg at 1% tolerance Power Supply: 220-240 VAC, 50/60 Hz, or compatible with Philippine electrical standards Construction: Laboratory-grade, durable housing suitable for routine academic laboratory use Accessories: Draft shield, weighing pan, power adapter/cord, operating manual, and calibration documentation Warranty: At least one (1) year Calibration: Supplied with factory calibration certificate and/or provision for calibration upon delivery		
8	**LOT**	**09-0610-26 IPDS**	**1**	
1	unit	**Supply, delivery, and testing of Handheld Multi- Band Multi-GNSS GPS Receiver.**  Type: Rugged handheld GPS/GNSS receiver GNSS Support: Multi-GNSS and multi-band satellite reception Satellite Systems: GPS, GLONASS, Galileo, QZSS and equivalent supported GNSS Multi-Band: Required for improved positioning accuracy in challenging environments Receiver: High-sensitivity GNSS receiver Display: Minimum 2.6-inch color display Display Resolution: Minimum 160 x 240 pixels or better Display: Sunlight-readable/transflective color display Electronic Compass: 3-axis, tilt-compensated electronic compass Altimeter: Barometric altimeter Positioning: Waypoint, track and route recording Waypoints: Minimum 5,000 Tracks: Minimum 200 saved tracks Track Log: Minimum 10,000 points Routes: Minimum 200 Arca Calculation: Required Coordinate Systems: Support for standard geographic coordinate systems and datums Coordinate Formats: Latitude/Longitude, UTM/UPS and other standard formats Map Compatibility: Ability to load/add maps Preloaded Maps: Topographic or equivalent base maps preferred Custom Maps: Capability to use custom maps preferred Data Transfer: USB interface Wireless Connectivity: Bluetooth and/or ANT+ preferred Mobile Application: Compatible with a GPS/GNSS field-data management application Water Resistance: Minimum IPX7 Battery: Replaceable/rechargeable battery system Battery Life: Minimum 16 hours under normal GPS operation Memory: Minimum 8 GB, preferably 16 GB or higher Field Functions: Waypoint averaging, track recording, route navigation, area calculation and distance measurement Georeferencing: Capability to record geographic coordinates and export location data Data Export: GPX or equivalent standard geographic data format Accessories: USB cable, battery/batteries, carabiner/hand strap, carrying case and documentation Warranty: Minimum one (1) year Training: Basic user orientation included	4	
9	**LOT**	**09-0611-26 IPDS**	**1**	
1	unit	**Supply, delivery, and testing of Handheld Thermal Imaging Camera.**  Type: Professional handheld thermal imaging camera Application: Building/facility inspection, infrastructure assessment, electrical/mechanical inspection, energy-efficiency assessment and field survey Infrared Resolution: Minimum 240 x 180 pixels Thermal Sensitivity	1	

		(NETD): <50 mK Temperature Measurement Range: Approximately -20°C to 550°C Temperature Accuracy: 12°C or 12% of reading, or better Detector: Uncooled microbolometer Spectral Range: Approximately 7.5-14 jum Field of View. Approximately 33° x 25° or equivalent Minimum Focus Distance: Approximately 0.5 m or better Image Frequency: Minimum 9 Hz Digital Camera: Minimum 5 MP Image Enhancement: Thermal/digital image overlay or equivalent Image Modes: Thermal, digital, picture-in-picture and/or equivalent Color Palettes: Multiple selectable thermal color palettes Display: Minimum 3.5-inch color touchscreen Display Resolution: Minimum 640 x 480 pixels Measurement Functions: Conter spot, area/box, minimum/maxximum temperature and temperature difference Emissivity Correction: Adjustable Reflected Temperature Correction: Required Atmospheric Compensation: Preferred Alarm/Isotherm: Above/below temperature alarm preferred Image Storage: Internal memory Connectivity. Wi-Fi and/or USB Data Transfer. Ability to export thermal images and measurement data Reporting: Compatible with manufacturer's thermal- analysis/reporting software or equivalent Battery: Rechargeable lithium-ion Battery Operation: Minimum approximately 4 hours continuous operation Environmental Protection: Minimum IP54, preferably IP54 or better Operating Temperature: Suitable for normal field inspection conditions Drop Resistance: Minimum approximately 2 m preferred Accessories: Rechargeable battery, charger/power supply, USB cable, carrying case and standard accessories Software: Basic thermal image analysis/reporting software, if applicable Calibration: Factory calibration certificate/documentation Warranty. Minimum one (1) year Training: Basic user orientation/operation demonstration included		

All statements and formats referring to this clause should be amended/corrected accordingly.

For guidance and information of all concerned.

For further information, please refer to:

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