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PR-2025-0708-289657

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Republic of the Philippines
VISAYAS STATE UNIVERSITY
 Visca, Baybay City, Leyte

PURCHASE REQUEST

PPMP No. : PPMP-2025-062625-1265

PR No.: GF-2025-07-00786

Date: 07-14-2025

Dept./Office: DSS

Category: Laboratory
 Equipment

Section/End-User: Angelica C. Asoy

Funding Source: General Fund - CO

Project Title/Code: DSS Capital outlay 2025

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Gravity Convection Oven	pc	1	90,000.00	ANGELICA C. ASOY	90,000.00
Specification: <ul style="list-style-type: none"> • Chamber Material: Aluminum • Display: Analog • Interior Dimensions: 11.5 x 16 x 16.2 in. (29 x 41 x 41 cm) • Exterior Dimensions: 13.5 x 18.5 x 22.5 in. (34 x 47 x 57 cm) • Temperature Range: Ambient +5°C to 210°C • Temperature Control: Bimetallic thermostat • Power Source: 220-240V, 50/60Hz • Certifications/Compliance: UL/cUL listed 						
2	Vertical Laminar Flow Workstations	set	1	350,000.00	DEEJAY M. LUMANAO	350,000.00
Specification: <ul style="list-style-type: none"> • Filtration: HEPA filtration with filter backpressure gauge • Airflow: Internal baffling plates and anodized aluminum diffuser panel for uniform air speed • Sash: Tilt-up dissipative PVC • Lighting: Fluorescent and UV lighting • Work Surface: Stainless steel • Power Source: 220-240V, 50/60Hz • Installation Services: Included 						
3	Digital microscope with camera	unit	1	52,000.00	DEEJAY M. LUMANAO	52,000.00
Specification: <p>?Compound Biological Trinocular Digital Microscopes ?with Camera and Software (2.0MP)</p>						
4	Floor Standing Mounted Airconditioner	unit	2	80,000.00	DEEJAY M. LUMANAO	160,000.00
Specification: <p>Specifications:</p> <ul style="list-style-type: none"> • Type: Floor Standing Mounted 						

- **Cooling Capacity:** At least 4.0 HP
- **Energy Efficiency:** Energy-saving compressor
- **Air Delivery System:** 3D air delivery system
- **Modes:** Sleep mode
- **Timers:** Auto on/off timer
- **Filter:** High-efficiency air filter
- **Control:** Remote control
- **Rated Capacity:** At least 2.5 BTU (typically this would be measured in thousands of BTUs, so clarify if it's 2,500 BTU or a higher value like 25,000 BTU for accurate specification)
- with free installation

5	Micropipette set	sets	1	75,000.00	ANGELICA C. ASOY	75,000.00
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Specification:

- **Volume Capacity:** 0.2-2 μ L, 1-10 μ L, 2-20 μ L, 10-100 μ L, 20-200 μ L, 100-1000 μ L
- **Autoclavable:** Fully autoclavable at 121°C for 20 minutes
- **Features:**
 - Triple-Speed Turbo (one rotation of triple dial equals 3.5 rotations of ordinary push-button dial)
 - Lock lever
 - Mushroom-shaped button
 - Color-coded
 - Digital indicator
- **Inclusions:**
 - **200 μ L:** Standard Tip, Graduated, Natural, PP Rack, Sterilized
 - **1000 μ L:** Standard Tip, Graduated, Natural, System Rack (PP), Sterilized
 - **20 μ L:** Filter Tip, System Rack (PP), Sterilized, 96 tips/rack, 10 racks/unit

6	40x-2000x LED Biological Trinocular Compound Microscope with 5MP Camera and Macbook Pro Laptop	unit	1	300,000.00	DEEJAY M. LUMANAO	300,000.00
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Specification:

Microscope Specifications:

- **Head:** Trinocular, 45-degree inclined, 360-degree swiveling
- **Nosepiece:** Revolving quadruple
- **Objectives:** Achromatic, DIN 4X, 10X, 40X (Spring), 100X (Spring, Oil)
- **Eyepieces:** WF10X and WF20X
- **Stage:** 3D double layer, size 5.5 x 5 in (14 x 12.7 cm), X-Y stroke: 3 x 2 in (7.6 x 5.3 cm)
- **Focusing:** Coaxial coarse and fine
- **Condenser:** Abbe, NA=1.25, with iris diaphragm
- **Illumination:** LED
- **Power Supply:** 100-240VAC, 0.35A adapter to DC6V, 2A
- **Optical System:** Achromatic optical system with precise optical glass elements
- **Ocular Diopter:** Adjustable on left ocular tube
- **Framework:** Heavy-duty metal
- **Camera:** 5MP USB camera with Windows/Mac software
- **Approval:** GS and CE
- **Warranty:** Five (5) years

Camera Specifications:

- **Sensor:** Aptina MT9P001 (color)
- **Sensor Type:** CMOS
- **Sensor Size:** 5.7x4.3mm (1/2.5" class)
- **Pixel Size:** 2.2 micrometers
- **Resolution:** 5.1MP
- **Frame Rate:** 55fps @ 640x480, 18fps @ 1280x960, 6.8fps @ 2592x1944
- **Sensitivity:** .53V/Lux-sec
- **Connectivity:** USB 2.0
- **Compatibility:** Windows (32/64 bit) XP/Vista/7/8/10, Mac OSX, Linux
- **Mounting Sizes:** 23mm, 30mm, 30.5mm, and C-mount

Packing List:

- Trinocular Microscope Body
- Four Achromatic DIN Objectives: 4X, 10X, 40X (S), 100X (S, Oil)
- One Pair of WF10X Eyepieces
- One Pair of WF20X Eyepieces
- Bottle of Immersion Oil
- Dust Cover
- AC Adapter
- User's Manual Download
- One 5.0MP Color Digital Camera - MU500B
- One 0.5X C-mount Relay Lens
- One 6' (1.8m) USB Cable
- Two Eyepiece Adapters: 30.0mm, 30.5mm
- Two Rubber Seal Rings
- One CD with Software, Driver, and User's Instructions

MacBook Pro Laptop Specifications:

- **Display:** 13-inch Retina display with True Tone
- **Chip:** Apple M1 chip with 8-core CPU, 8-core GPU, and 16-core Neural Engine
- **Memory:** 8GB unified memory
- **Storage:** 256GB SSD
- **Keyboard:** Magic Keyboard
- **Touch Bar:** Yes, with Touch ID
- **Trackpad:** Force Touch trackpad
- **Ports:** Two Thunderbolt / USB 4 ports

7	Hotplate stirrer including magnetic bar and retriever kit	unit	1	70,000.00	ANGELICA C. ASOY	70,000.00
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Specification:

- **Heating Temperature Range:** 50°C - 500°C
- **Heating Rate:** 5K/min
- **Heat Output:** 1000W
- **Heat Control:** LED
- **Motor Rating Output:** 1.5W
- **Stirring Bar Length Max:** 80 mm

<ul style="list-style-type: none"> • Speed Range: 100 rpm - 1500 rpm • Speed Control: Scale 0 - 6 • Fixed Safety Circuit: 550°C • Plate Dimensions: 180 x 180 mm • Plate Material: Ceramic • Power Output: 1020W • Power Source: 220 - 240 V, 50/60 Hz • Depth: 330 - 335 mm • Height: 105 - 110 mm 						
8	Top Loading Balance	pc	1	60,000.00	ANGELICA C. ASOY	60,000.00
Specification: <ul style="list-style-type: none"> • Readability (d): 0.01 g • Weighing Range (max): 3600 g • Taring Range (subtractive): 3600 g • Reproducibility: 0.02 g • Linearity: ±0.05 g • Adjustment Points: 1.0/2.0/3.0/3.6 kg • Housing Dimensions (BxDxH): 167 x 250 x 85 mm • Weighing Plate Material: Stainless Steel • Weighing Plate Dimensions: 130 x 130 mm • Net Weight: 1.5 kg 						
9	Fumehood	unit	1	300,000.00	ANGELICA C. ASOY	300,000.00
Specification: <ul style="list-style-type: none"> • Dimensions: At least 1800 mm (W) x 850 mm (D) x 2350 mm (L) • Material: Steel - <i>Worktop Material Options:</i> <ul style="list-style-type: none"> ◦ Epoxy Resin ◦ Phenolic Resin ◦ Ceramic ◦ Stainless Steel • Structure: Floor mounted • Type: Manual • Additional Features: <ul style="list-style-type: none"> ◦ Installation included ◦ Exhaust duct included 						
10	High Vacuum Pump Deluxe Experiment Kit	pc	1	80,000.00	ANANE R. SEREÑINA	80,000.00
Specification:						



High Vacuum Pump Deluxe Experiment Kit

- Includes everything needed to teach high vacuum physics right out of the box.
- Features the LAV-3/G high vacuum pump with a mounted 30" Hg gauge.
- The pump is a direct drive, two-stage rotary vane pump capable of achieving 20 microns under laboratory conditions.

Kit Components:

- LAV-3/G High Vacuum Pump with 0-30" Hg gauge
- 6" x 11" Glass Bell Jar
- Acrylic High Vacuum Pump Plate with shut-off valve
- 5' High Vacuum Tubing
- 1 Quart of replacement high vacuum pump oil
- Balloons and a petri dish for demonstrations (balloon expansion at high vacuum and boiling water at room temperature under high vacuum)
- Two hose clamps

11	Multiparameter ph/ORP/EC/TDS/Salinity/DO/ Pressure/Temperature Waterproof Meter	unit	1	150,000.00	ANANE R. SEREÑINA	150,000.00
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Specification:

- **Function:** Measures up to 12 water quality parameters

- **Parameters Measured:** pH, ORP, Conductivity, TDS, Salinity, Dissolved Oxygen (DO), Pressure, Temperature
- **Display:** Backlit graphic LCD, shows up to twelve parameters simultaneously, virtual keys for intuitive use
- **Waterproof Protection:** IP67-rated casing, withstands immersion to 1m depth for up to 30 minutes; probe is IP68-rated for continuous immersion
- **Probe:** Quick connect DIN connector, color-coded, field-replaceable sensors with auto-sensor recognition
- **Automatic Compensation:** Temperature compensation for pH, conductivity, and DO; barometric pressure compensation for DO
- **Calibration:** Quick calibration or standard multi-point calibration for pH, conductivity, and DO; supports custom buffers and standards
- **Data Logging:** Stores up to 45,000 samples with intervals from 1 second to 3 hours
- **Keypad:** Rubber keypad with dedicated keys for power, backlight, navigation, and help; intuitive virtual soft keys
- **Help Feature:** Dedicated help key for contextual guidance
- **PC Connectivity:** Transfer data to PC via micro USB cable and included software
- **Battery Life:** Up to 360 hours with four 1.5V AA batteries; battery indicator on display
- **Carrying Case:** Rugged, thermoformed case for secure storage and transport

12	pH METER (benchtop)	set	1	95,000.00	ANGELICA C. ASOY	95,000.00
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Specification:

- **Meter Type:** Benchtop
- **Display Type:** LCD
- **Connections:** pH (BNC), Temperature (2.5mm)
- **pH Range:** -2 to 16
- **pH Resolution:** 0.01-0.1
- **pH Accuracy:** ± 0.01 pH
- **Buffer Recognition:** NIST and USA
- **Calibration:** Up to 5 points
- **mV Range:** -2000 to 2000
- **mV Resolution:** 0.1 or 1 mV
- **mV Accuracy:** ± 0.2 mV or 0.05%, whichever is greater
- **Temperature Range:** 0 to 100°C
- **Temperature Compensation:** Automatic or Manual
- **Power Supply:** 100 to 240 VAC, 50 or 60 Hz
- **Dimensions (W x H):** 17.4625 cm x 6.985 cm (6.875 in x 2.75 in)
- **Description:** Benchtop meter with "All In One" pH capabilities
- **Warranty:** 3 years

13	SOIL GRINDER	unit	1	100,000.00	ANANE R. SEREÑINA	100,000.00
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Specification:

- **Hopper Capacity:** 1 pint (0.473 L)
- **Revolutions per Minute:** 1,725 RPM
- **Electrical:** 220V/50Hz, 1 Phase, 1/3 Hp, 7.0 Amps
- **Product Dimensions:** 12 x 15 x 19 in (305 x 381 x 483 mm) WxDxH
- **Estimated Shipping Weight:** 34.0 lb (15.42 kg)

14	ANALYTICAL BALANCE	unit	1	150,000.00	ANGELICA C. ASOY	150,000.00
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Specification:

- **Weighing Capacity:** 220 g
- **Readability:** 0.1 mg

<ul style="list-style-type: none"> • Repeatability (Standard Deviation): 0.1 mg • Linearity Deviation: 0.2 mg • Pan Size: 90 mm / 3.5 in • Calibration: Internal, external, isocal • Dimensions: 12.6" H x 8.5" W x 14.1" D • Net Weight: 11.2 lbs • Power Requirement: 110-240 V 						
15	VOLUMETRIC DISPENSER	unit	1	75,000.00	ANGELICA C. ASOY	75,000.00
Specification: <ul style="list-style-type: none"> • Code: 1183C73, 1183C66 • Capacity: 50-50 ml • Subdivision: 1 ml • Accuracy: ±0.5% • Precision: ±0.1% • Type: Plain Clear Glass 						
16	Basic benchtop pH meter with replaceable electrode and buffer	unit	1	70,000.00	ANGELICA C. ASOY	70,000.00
Specification: <p>Key Features:</p> <ul style="list-style-type: none"> • Display: Large 6.5-inch LCD display • Input: Touch keypad for easy operation • Memory: At least 1000-item memory for pH measurements and calibration trail • Connectivity: RS232 and USB interface for data output • Electrode Monitoring: i-Steward monitors electrode condition for accurate measurements • User Interface: Intuitive, smartphone-like interface for parameter changes, setup, and calibration • Calibration: Auto endpoint mode and auto buffer recognition for easy calibration <p>Options:</p> <ol style="list-style-type: none"> 1. AB33PH Meter with Electrode Holder 2. Full Kit Including: <ul style="list-style-type: none"> ◦ AB33PH meter ◦ ST310 electrode ◦ Electrode holder ◦ 4 pH buffer mini kits (50 mL each) <p>Specifications:</p> <ul style="list-style-type: none"> • Accuracy (mV): ±1 mV • Accuracy (Temperature): ±0.5°C • Outputs: USB, RS-232 (PC), RS-232 (Printer) • Calibration: Linear 						
17	CN Analyzer	set	1	500,000.00	DEEJAY M. LUMANAO	500,000.00
Specification:						

Type: Elemental Analyzer Detector type: Thermal Conductivity Detector For use with (Application): Agronomy, Environmental Science, Marine Science, Material Characterization Description: Flash Smart NC Soil


18	Multianalyzer	set	1	350,000.00	DEEJAY M. LUMANAO	350,000.00
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Specification:

- **Multianalyzer:** pH/ISE/Conductivity/RDO/DO Portable Meter
- **Power Supply:**
 - AC Adapter Universal 50-60 Hz, 100-240 VAC (sold separately, Cat. No. 1010003)
- **Outputs:** USB, RS232
- **Accuracy:**
 - **Barometer:** ± 6 mmHg
 - **Conductivity:** 0.5% of reading ± 1 digit $> 3 \text{ ?S}$; 0.5% of reading $\pm 0.01 \text{ ?S}$ $> 3 \text{ ?S}$
 - **ISE:** ± 0.2 mV or $\pm 0.05\%$ of reading, whichever is greater
 - **mV:** ± 0.2 mV or $\pm 0.05\%$ of reading, whichever is greater
 - **pH:** ± 0.002
 - **Polarographic DO:** ± 0.2 mg/L or $\pm 2\%$ of reading, whichever is greater
 - **RDO:**
 - ± 0.1 mg/L up to 8 mg/L
 - ± 0.2 mg/L from 8 to 20 mg/L
 - $\pm 10\%$ of reading up to 50 mg/L
 - **Resistivity:** 0.5% of reading ± 1 digit
 - **Salinity:** 0.5% of reading ± 1 digit
 - **TDS:** 0.5% of reading ± 1 digit
- **Advanced ISE Functions:**
 - Segmented (point-to-point) slope
 - Non-linear selectable auto-blank
 - Low concentration range stability
- **Alarm Output:** High/low limit alarm, calibration due alarm
- **Backlight Option:** Yes, selectable
- **Barometric Pressure Correction:** 400 to 850 mmHg, automatic using built-in barometer or manual entry
- **Battery Life:** 800 hours
- **Battery Type:** 4 AA

	TOTAL					3,027,000.00
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Purpose: For laboratory analysis


Checked by: 
ELIZABETH S. QUEVEDO


Funds Available: 
ALICIA M. FLORES 22-735 25


TWG - Laboratory Equipment

HEAD, BUDGET OFFICE

Signature:
Printed Name:
Designation:

Prepared by: 
ANGELICA C. ASOY

Noted by: 
DEEJAY M. LUMANAO
UNIT HEAD, PROJECT LEADER

Approved by:

PROSE IVY G. YEPES
PRESIDENT, VSU