



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

PURCHASE REQUEST

PPMP No. : **PPMP-2025-081125-1361**

Dept./Office: **CASL**

PR No.: **STF-2025-08-00991**

Date: **08-13-2025**

Section/End-User: **Juvylyn G. Niegas**

Category: **Laboratory
Equipment**

Funding Source: **Special Trust Fund - Capital
Outlay**

Project Title/Code: **CASL 2025 EQUIPMENT (6)**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Analytical Balance (1mg Readability)	pc	1	200,000.00		200,000.00

Specification:

Analytical Balance (to replace a damaged unit currently in our laboratory)

- Powerful and precise monolithic weigh cell technology
- Automatic calibration and adjustment documentation with isoCAL
- 12 integrated applications expand usability and application potential
- Modern connectivity options for simple data transfer and analysis
- High measurement precision and accuracy during routine weighing

Specifications:

Applications:

Application Programs

- Animal weighing
- Calculation | Free factor
- Counting
- Density determination
- Percentage weighing
- Components | Totalizing
- Weighing
- Dosing Mixing | Net total
- Statistics
- Peakhold
- Checkweighing
- Mass unit conversion
- Underfloor weighing

Compliance Information---- Legal Verification: Non-verified

Connections (Data) --Data Interface: RS232 USB C ; USB-C (Host)

Dimensions --- WxDxH: 219 × 317 × 345 mm

Weighing Chamber Height: 240 mm

Weighing Pan Dimensions: ? 120 mm

Features

1. Adjustment: Internal automatic (isoCAL)
2. Anti-Theft Locking Device: Kensington Lock, lockdown capability for cable or chain
3. Display: LED screen with touch technology
4. Languages: English, German, French, Italian, Spanish, Portuguese, Russian, Polish
5. Leveling: Manual
6. Repeatability: 1 mg
7. Scale Interval: 1 mg
8. Typical Stabilization Time: ?1.0 s
9. Underfloor Weighing: Yes

General Specifications

- 1.0 Draft Shield: Manual
- 2.0 External Calibration Weight: 200 g | F1
- 3.0 Linearity: 2 mg
- 4.0 Minimal Sample Weight according to USP and PhEur (optimal): N/A
- 5.0 Sensitivity Drift between +10 °C and +30 °C: ± 2.0 ppm/K
- 6.0 Weighing Units: Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China tael, mommes, Austrian carat, tola, baht, mesghal and Newton

Operating Conditions

1. Maximum Weighing Capacity: 220 g
2. Operating Conditions - Temperature: +10 – +30 °C
3. Power Requirements Power Requirements: 100 – 240 VAC, $\pm 10\%$, 50 – 60 Hz, 0.2 A
4. Power Requirements (Secondary): 15 VDC, $\pm 5\%$, 0.53 A

TERMS OF PAYMENT: 30 days

DELIVERY: F – Within 90-150 days after receipt of your P.O.

VALIDITY: Thirty (30) days after receipt of offer.

WARRANTY: One (1) year from date of acceptance under normal use of the equipment

This instrument is covered by a warranty for a period of one (1) year from the date of delivery. During the warranty period, any

defects in materials or workmanship that arise under normal use will be repaired free of charge. This includes both the cost of spare parts and applicable service fees. Please note that while corrective repairs are covered under the warranty, any preventive maintenance requested or required during the warranty period will be performed at the customer's expense. This warranty does not cover damage resulting from misuse, accidents, unauthorized modifications, or improper maintenance.

REMARKS: Standard VAT included. In case of cancellation of your order to us, kindly note the corresponding charges: Within 15 days from issuance of P.O. – NO CHARGE. Within 30 days from issuance of P.O. – 75% Within 45 days from issuance of P.O. – 100%

2	General Protocol Oven	pc	1	230,000.00		230,000.00
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Specification:

One (1) unit - General Protocol Oven (to replace the old unit currently in our laboratory)

Features:

- Operating temperatures from 50° to 250°C
- Automatic over-temperature alarm system to protect samples
- Low overall energy consumption
- Built in timer
- Corrosion-resistant stainless-steel inner chambers with rounded corners
- Large, easy to read vacuum fluorescent display
- Easy to use, microprocessor-controlled touch button operation
- High-precision work space temperature control
- A mechanically-operated damper for venting the work space, equipped with an external slider rotary button control
- Doors can be opened over 180°C

Technical Specifications:

- Capacity (Metric) : 65 L
- Temperature (Metric) : 50°C to 250°C
- Type: Gravity Convection
- No. of Shelves : 2 supplied/13 max.
- Max. Shelf Load : 25 kg
- Controller Type : Microprocessor control with vacuum fluorescent display
- Temperature Stability : $\pm 0.4^{\circ}\text{C}$
- Temperature Uniformity : $\pm 4^{\circ}\text{C}$
- Timer : ON / OFF
- Dimensions (W x H x D) Interior: 12.9 x 18.9 x 16.3 in
- Dimensions (W x H x D) Exterior : 20.9 x 29.7 x 22.2 in
- Weight : 42 kg
- Electrical Requirements : 230 V, 50/60 Hz, 7.9 A, 1800 W

TERMS OF PAYMENT: 30 days

DELIVERY: F – Within 90-150 days after receipt of your P.O.

VALIDITY: Thirty (30) days after receipt of offer.

WARRANTY: One (1) year from date of acceptance under normal use of the equipment

This instrument is covered by a warranty for a period of one (1) year from the date of delivery. During the warranty period, any defects in materials or workmanship that arise under normal use will be repaired free of charge. This includes both the cost of spare parts and applicable service fees. Please note that while corrective repairs are covered under the warranty, any preventive maintenance requested or required during the warranty period will be performed at the customer's expense. This warranty does not cover damage resulting from misuse, accidents, unauthorized modifications, or improper maintenance.

REMARKS: Standard VAT included. In case of cancellation of your order to us, kindly note the corresponding charges: Within 15 days from issuance of P.O. – NO CHARGE. Within 30 days from issuance of P.O. – 75% Within 45 days from issuance of P.O. – 100%

3	Magnetic Stirrer	pc	1	45,000.00		45,000.00
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Specification:

Magnetic Stirrer (to replace a damaged unit currently in our laboratory)

Features:

- Low-profile, lightweight design with small footprint
- Strong magnetic coupling to ensure consistent stirring during experimental procedures
- Brushless DC Motor will not generate heat and "cook" sample
- Polypropylene top and body provides excellent chemical resistance
- Analog speed control: 150 to 2500rpm
- Two non-slip silicone plate covers provided with all units (1 black, 1 white)
- Low power consumption

Technical Specifications:

- Type : Magnetic Stirrer
- Stirring Capacity : 4 L
- Speed Range : 150 to 2500 rpm
- Maximum Load (vessel) : 20 kg (44.09 lbs)
- Motor Type : Brushless DC motor
- Body Material : Polypropylene
- Certifications : CE , RoHS Compliant
- Top Plate Dimension: 170mm / 6.69in diameter
- Overall Dimensions (WxDxH) : 185 x 185 x 65mm (7.28 x 7.28 x 2.56in)
- Weight : 42 kg
- Plug Type : Cord set w/various plugs
- Electrical Requirements : 100-240V, 50/60Hz, 6W
- Inclusions : Two non-slip silicone plate covers (1 black, 1 white)

TERMS OF PAYMENT: 30 days

DELIVERY: F – Within 90-150 days after receipt of your P.O.

VALIDITY: Thirty (30) days after receipt of offer.

WARRANTY: One (1) year from date of acceptance under normal use of the equipment

This instrument is covered by a warranty for a period of one (1) year from the date of delivery. During the warranty period, any defects in materials or workmanship that arise under normal use will be repaired free of charge. This includes both the cost of spare parts and applicable service fees. Please note that while corrective repairs are covered under the warranty, any preventive maintenance requested or required during the warranty period will be performed at the customer's expense. This warranty does not cover damage resulting from misuse, accidents, unauthorized modifications, or improper maintenance.

REMARKS: Standard VAT included. In case of cancellation of your order to us, kindly note the corresponding charges: Within 15 days from issuance of P.O. – NO CHARGE. Within 30 days from issuance of P.O. – 75% Within 45 days from issuance of P.O. – 100%

4	Benchtop pH/Conductivity Meter	pc	1	150,000.00		150,000.00
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Specification:

Benchtop pH/ Conductivity Meter (This will replace the currently damaged lab equipment, and it can also provide additional parameters specifically for water and soil analysis)

Features:

- Small footprint with adjustable, integrated electrode stand
- Sleek design with easy-to-use interface and audible key sound feedback
- 5-inch digital, custom LCD display with backlight
- Printer communication via RS232 cable
- Software upgrade capability
- Password-protected set-up mode for security
- Adjustable auto shut-off up to 30 mins
- Real time clock facilitating time-dependent functions
- Auto data log function with adjustable time interval
- Large memory

Technical Specifications:

- pH range : -2.000 to 20.000 pH
 - Resolution: 0.1 / 0.01 / 0.001
 - pH Accuracy : ± 0.003 pH
 - pH buffer groups : USA, NIST, NIST2, DIN, Custom
 - Calibration points : Up to 5 (USA, NIST, NIST2, Custom) / up to 6 (DIN)
- ORP range : ± 2000.0 mV
 - Resolution : 0.1 mV
 - Accuracy : ± 0.2 mV
 - Calibration option : Yes (up to ± 200 mV)
- Ion range : 0.000 $\mu\text{g/L}$ to 9999 g/L
 - Units : $\mu\text{g/L}$? mg/L ? g/L, ppm ? ppt, mmol/L ? mol/L
 - Resolution: 4 significant digits
 - Accuracy $\pm 0.3\%$ full scale or ± 0.2 mV, whichever is higher
 - Calibration points : Up to 5

- Conductivity range : 0.000 to 1.999 $\mu\text{S/cm}$ ($k=0.1$) ; 2.00 to 19.99 $\mu\text{S/cm}$ ($k= 0.1, 1$); 20.0 to 199.99 $\mu\text{S/cm}$ ($k= 0.1, 1, 10$) ; 200 to 1999 $\mu\text{S/cm}$ ($k= 0.1, 1, 10$); 2.00 to 19.99 mS/cm ($k=1, 10$); 0.200 to 2.000 S/cm ($k=10$)
 - Units : Auto ranging S/cm , S/m
 - Resolution: 0.05% full scale
 - Accuracy $\pm 0.6\%$ full scale; $\pm 1.5\%$ full scale $> 18.0 \text{ mS/cm}$
 - Reference temperature : 15.0 to 30.0°C (adjustable)
 - Temperature coefficient: 0.00 to 10.00% per °C (adjustable)
 - Cell constants: 0.070 to 13.00 (adjustable)
 - Calibration points: Up to 4 (Auto) / up to 5 (manual)
- Resistivity range : 0.001 $\text{M}\Omega \cdot \text{cm}$ to 20.0 $\text{M}\Omega \cdot \text{cm}$
 - Resolution : 0.5% full scale
 - Accuracy: $\pm 0.6\%$ full scale; $\pm 1.5\%$ full scale $> 18. \text{ mS/cm}$
- Total Dissolved Solids (TDS) : range 0.01 to 9.99 mg/L (ppm) ; 10.0 to 99.9 mg/L (ppm); 100 to 999 mg/L (ppm) ; 1.00 to 9.99 g/L (ppt); 10.0 to 100 g/L (ppt) ;
 - Resolution : 0.01, 0.1, 1 mg/L ? g/L (ppm ? ppt)
 - Accuracy : $\pm 0.1\%$ full scale
 - TDS curves : EN27888, 442, NaCl, Linear (0.40 to 1.00)
- Salinity : range 0.0 to 100.0 ppt / 0.00 to 10.00‰
 - Resolution : 0.1 ppt / 0.01‰
 - Accuracy : $\pm 0.2\%$ full scale
 - Salinity curves : NaCl / Seawater
 - Calibration points: Yes (Manual; 1 point)
 - Temperature range : -30.0 to 130.0°C / -22.0 to 226.0 °F
 - Resolution : 0.1°C / °F
 - Accuracy : $\pm 0.5^\circ\text{C}$ / $\pm 0.9^\circ\text{F}$
 - Calibration option : Yes ($\pm 10.0^\circ\text{C}$ / $\pm 18.0^\circ\text{F}$ range in 0.1 °C increments)

• Memory : 2000

; Auto data log: yes

; Real-time clock: yes

; Data & time stamp :yes

; Measurement modes : Auto stable / auto hold / real time

; Offset & slope display : Yes (segment & average slopes)

; Calibration alarm ; Yes (programmable: up to 90 days)

; Auto shut-off : Yes (programmable: up to 30 mins)

; Electrode status: On screen display

; Diagnostics: Yes

; Password setting : yes

; Software upgrade: yes

; PC/Printer communication : Phono jack (USB / RS232C)

; Meter inputs: 2 x BNC, 2 x phono (ATC), DC sockets

; Display : 5" Custom LCD with backlight and 320 segments

; Power requirement : AC adaptor 100 – 240V, 50-60 Hz

; Dimensions (L x W x H) : 155 x 150 x 67 mm

; Weight 770g

Accessories

Included: 1 Unit 9615S-10D Refillable, Glass-body pH electrode with integrated temperature sensor ; 1 Unit 9382-10D Ti/Pt black plastic-body conductivity cell k=1.0 with built-in temperature sensor; 1 Unit 3999960016 USA pH buffer kit ;1 Unit 3999960017 Conductivity standard solutions kit

- Validity : Thirty (30) days
- Terms : Net 30 days
- Warranty : One (1) year on parts and services
- Delivery : Approx. 30-90 days upon receipt of PO
- Installation : Installation, Commissioning and on – site training

5	UPS Secure 5000va	pc	1	15,000.00	15,000.00
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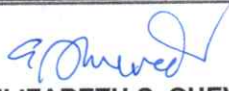

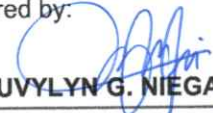

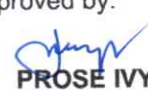
Specification:

UPS Secure 5000va -(This will replace our two UPS units for MPAES and HPLC)

- A secure 5000VA UPS (Uninterruptible Power Supply) typically offers a 5000VA/3500W capacity, with input voltage of 230VAC and frequency range of 50-60Hz (Auto-sensing). It also features a typical transfer time of 4-8 ms; and a voltage range of 140-300VAC. The unit includes features like AVR (Automatic Voltage Regulation), overload and short circuit protection , and is compatible with inverters.

TOTAL				640,000.00
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Purpose: Replacement for MPAES operation

Checked by:	 ELIZABETH S. QUEVEDO	Funds Available:	 ALICIA M. FLORES
	TWG - Laboratory Equipment		HEAD, BUDGET OFFICE
Signature:	Prepared by:	Noted by:	Approved by:
Printed Name:	 JUVYLYN G. NIEGAS	 JAMES A. PATINDOL	 PROSE IVY G. YEPES
Designation:		UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU