

SCAN HERE



PR-2024-1003-227420



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

PURCHASE REQUEST

PPMP No. : **PPMP-2025-092524-0470**PR No.: **GF-2024-10-02015**Date: **10-03-2024**Dept./Office: **DBS**Category: **Laboratory
Equipment**Section/End-User: **Alma . Gofredo**Funding Source: **General Fund - CO**Project Title/Code: **DBS-Capital Outlay 2025**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Autoclave 100L Sterilizer	unit	1	365,000.00	BERNA LOU A. REGIS	365,000.00

Specification:

Features:

- Fuzzy function to prevent overheating
- Accurate temperature controls via digital PID controller
- Set time/temperature function
- Error message display for temperature sensor disconnection
- Alarm rings upon timer completion
- Adjustable settings for discrepancies between real and displayed temperatures
- Save and recall function to restore previous controller settings
- Automatic process activation with a start button after setting temperature and time
- Automatic air discharge and pressure elimination after reaching sterilizing temperature
- Buzzer sounds at the end of the sterilizing period
- Stable standing during cover opening/closing, aided by parking casters
- Steam exit and valve located in a buried area for safety
- Internal chamber made of STS #304 for durability
- Auto and manual safety valves for safety
- User-adjustable temperature limits

Temperature and Capacity:

- Temperature Range: Max 125°C
- Temperature Controller: Digital PID Controller
- Temperature Sensor: Pt100
- Pressure: 1.5 kg/cm²

Dimensions and Material:

- External Size (WxDxH): 600 x 710 x 1130 mm
- External Material: Steel with powder coating
- Basket: Stainless steel wire mesh (2 units)

Electric Requirements:

- Voltage: 220 VAC, 50/60 Hz
- Wattage: 4400 W

Safety Features:

- Circuit breaker for electrical safety
- **Buried Valve:** Compact designed power cable, safety pin, auto valve, and manual valve for maximum utilization
- **Manual Safety Valve:** Easy to operate, indirect link, safe from hot steam
- **Silicone Packing:** Ultra-performance silicone packing
- **Wired Basket:** Wired basket with excellent thermal conductivity
- **Parking Casters:** Easy mobility and stable standing

Additional Features:

- Threefold tempered safety glass windows for excellent insulation and easy observation
- Buffering device to enhance door adherence for insulation
- Upper vent for emitting moisture and gas after evaporation
- Compact inside container for efficient use of space

2	Multiparameter meter	unit	1	150,000.00	RAFAEL JUNNAR P. DUMALAN	150,000.00
Specification:						

- A waterproof portable logging multiparameter meter that monitors up to 12 different water quality parameters.
- Multi-sensors probe allows for the measurement of key parameters including pH, ORP, conductivity, dissolved oxygen, and temperature.
- The probe transmits readings digitally to the meter, where data points can be displayed and logged.
- The complete system is simple setup.
- Backlit graphic LCD Display- features a backlit graphic LCD with on-screen help and the capability to display upto twelve parameters simultaneously.
- The graphic display allows for the use of virtual keys to provide for an intuitive user interface
- Waterproof protection-the meter is enclosed in an IP67rated waterproof casing and can withstand immersion in water at a depth of 1m for up to 30 minutes. The probe features an IP68 rating for continuous immersion in water
- Quick Connect digital Probe-The probe features a quick connect DIN connector that makes a waterproof connection with the meter.
- Color Coded, Field Replaceable sensors-sensor replacement is quick and easy with field replaceable, screw-type connectors that are color-coded for easy sensor port identification
- Auto-sensor recognition- The probe and meter automatically recognize the sensors that are connected. Any ports not used on the probe will not have the parameter displayed or be configurable
- Automatic temperature compensation-Integrated temperature sensor allows for automatic temperature compensation of pH, conductivity and dissolved oxygen measurements
- Automatic Barometric pressure compensation-The meter features a built-in barometer with user selectable units for dissolved oxygen pressure compensation
- Standard or quick calibration-Quick calibration provides a speedy, single-point calibration for pH, conductivity, and dissolved oxygen. Standard pH calibration options are available for calibrating up to three points from a selection of five standard buffers and one custom buffer. Conductivity calibration is a single point from six standard selections or one custom standard. Dissolved oxygen calibration is up to two standard points or a single custom point
- GLP Data- includes a GLP feature that allows users to view calibration data and expiration information at the touch of a key. Calibration data includes date, time, buffers/standards used for calibration, and slope characteristics
- Data Logging-Allows users to store up to 45,000 continuous log-on demand samples with logging intervals from one second to three hours
- Intuitive Keypad-The fitted rubber keypad has dedicated keys for power, backlight, up/down arrows, help and alphanumeric characters. The meter also features two virtual soft keys that navigate the user through the configuration of each parameter, meter setup, and logging of data. The interface is intuitive for any user's level of experience.
- Dedicated help key- Contextual help is always available through a dedicated "HELP" key. Clear tutorial messages and directions are available on-screen to quickly guide users through setup and calibration. The help information displayed is relative to the setting/option being viewed.
- PC Connectivity- Logged data can be transferred to the Window's compatible PC with the included micro USB cable and software
- Long Battery Life- The display of the meter has a battery icon indicator to show the remaining power. The meter uses four 1.5V AA batteries that provide up to 360 hours of battery life
- Rugged Thermoformed Carrying case- The meter, probe and all accessories are supplied in a rugged carrying case designed to provide years of use. The inside compartment of the carrying case is thermoformed to securely hold and protect all of the components.

3	Russian Peat Borer/Corer	unit	1	240,000.00	CHERYL C. BATISTEL	240,000.00
---	--------------------------	------	---	------------	--------------------	------------

Specification:

- Maximum sample depth: 10 m

- Sample volume: 0.5 l
- Sample type: loose
- Sediment type: peat / soft clay or muddy • 50cm sample size.
- Accessories: The peat sampler uses our conical screw thread connection extension rods and handles.

Specifications

4	Spectrophotometer	unit	1	1,000,000.00	ERN OLIVER C. BALONDO	1,000,000.00
---	-------------------	------	---	--------------	-----------------------	--------------

Specification:

Shimadzu UV-1800 Spectrophotometer Specifications

Wavelength Resolution:

- Highest level of wavelength resolution in its class: **1 nm**

Functionality:

- Can function as a **standalone instrument** or be **PC-controlled** via USB
- **UVProbe data processing software** included for easy data handling

USB Interface:

- Allows users to **drag and drop data** from an optional USB memory stick to a PC
- Enables the use of **macros and graph functions** available in commercial spreadsheet software
- **USB memory** saves:
 - Spectral data
 - Quantitation values
 - Measurement parameters
 - Parameter settings for shared use among multiple users

Performance:

- Reduced stray light and noise levels:
 - LO-RAY-LIGHT low stray light diffraction grating reduces stray light to **half** that of the UV-1700
 - Brighter optical system reduces noise level (at 700 nm) to **25%** of the previous model

Modes:

- Multiple modes included:
 - Photometric
 - Spectrum
 - Quantitation
 - Kinetics
 - Time-scan
 - Multi-component quantitation
 - Biomethod

Security and Maintenance:

- ### Design Features:

- TOTAL

1,755,000.00

Checked by:

GENESIS C. ALBARICO

TWG - Laboratory Equipment

Funds Available:

ALICIA M. FLORES (p. 25)

HEAD, BUDGET OFFICE THS

Signature:

Prepared by:

ALMA . GOFREDO

Noted by:

CHERYL C. BATISTEL

UNIT HEAD, PROJECT LEADER

Approved by:

PROSE IVY G. YEPES

PRESIDENT, VSU