



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

SCAN HERE



PPMP-2025-1022-305193

PROJECT PROCUREMENT MANAGEMENT PLAN (PPMP) NO. **04**  
☒ INDICATIVE   ☐ FINAL

Fiscal Year: **2026**  
End-user or Implementing Unit: **Department of Horticulture**

PROCUREMENT PROJECT DETAILS					PROJECTED TIMELINE (MM/YYYY)			FUNDING DETAILS		Attached Supporting Documents	Remarks
General Description and Objective of the Project to be Procured	Type of the Project to be Procured (Goods, Infrastructure, Consulting Services)	Quantity and Size of the Project to be Procured	Recommended Mode of Procurement	Pre-Procurement Conference (Yes/No)	Start of Procurement Activity	End of Procurement Activity	Expected Delivery/Implementation Period	Source of Funds	Estimated Budget / Authorized Budgetary Allocation (Php)		
Laboratory Equipment											
pH/EC Meter	Goods	1 pc * 2	Small Value Procurement	No	01/2026	01/2026	05/2026	STF-CO	65,000.00	• Technical Specification	
Sub-Total									65,000.00		
Office Equipment											
Floor Standing Mounted Airconditioner	Goods	1 unit * 1	Small Value Procurement	No	01/2026	01/2026	04/2026	STF-CO	143,000.00	• Technical Specification	
Sub-Total									143,000.00		
TOTAL BUDGET:									208,000.00		

\* Please see attached specification

Prepared by: \_\_\_\_\_

**ALJAY D. VALIDA**  
Associate Professor III  
DOH

Date: \_\_\_\_\_

Submitted by: \_\_\_\_\_

**ALJAY D. VALIDA**  
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Date: \_\_\_\_\_



Date Generated: 10/22/2025

*Lucia M. Flores*  
LUCIA M. FLORES, DOH Lab Share

# SPECIFICATION

## 1. Floor Standing Mounted Airconditioner

### Specifications:

- **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

## 2. pH/EC Meter

### Specifications

#### pH Specifications

**pH Range** -2.000 to 20.000 pH

**pH Resolution** 0.1, 0.01, 0.001 pH

**pH Accuracy (@25°C/77°F)**  $\pm 0.1$  pH,  $\pm 0.01$  pH,  $\pm 0.002$  pH  $\pm 1$  LSD

**pH Calibration** automatic, up to five point calibration, eight standard buffers available (1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) and five custom buffers

**pH Temperature Compensation** automatic or manual from -20.0 to 120.0 °C

**mV Range**  $\pm 2000$  mV

**mV Resolution** 0.1 mV

**mV Accuracy**  $\pm 0.2$  mV  $\pm 1$  LSD

**Relative mV Offset Range**  $\pm 2000$  mV

#### EC Specifications

**EC Range** 0.000 to 9.999  $\mu$ S/cm, 10.00 to 99.99  $\mu$ S/cm, 100.0 to 999.9  $\mu$ S/cm, 1.000 to 9.999 mS/cm, 10.00 to 99.99 mS/cm, 100.0 to 1000.0 mS/cm actual EC\*

**EC Resolution** 0.001  $\mu$ S/cm, 0.01  $\mu$ S/cm, 0.1  $\mu$ S/cm, 1  $\mu$ S/cm, 0.001 mS/cm, 0.01 mS/cm, 0.1 mS/cm

**EC Accuracy (@25°C/77°F)**  $\pm 1\%$  of reading ( $\pm 0.01$   $\mu$ S/cm)

**EC Calibration** automatic standard recognition (0.000  $\mu$ S/cm, 84.00  $\mu$ S/cm, 1.413 mS/cm, 5.000 mS/cm, 12.88 mS/cm, 80.00 mS/cm, 111.8 mS/cm) or user standard; single point or multi-point calibration

#### TDS Specifications

**TDS Range** 0.000 to 9.999 ppm, 10.00 to 99.99 ppm, 100.0 to 999.9 ppm, 1.000 to 9.999 ppt, 10.00 to 99.99 ppt, 100.0 to 400.0 ppt actual TDS\* (with 1.00 factor)

**TDS Resolution** 0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.001 ppt, 0.01 ppt, 0.1 ppt

**TDS Accuracy (@25°C/77°F)**  $\pm 1\%$  of reading ( $\pm 0.01$  ppm)

#### Resistivity Specifications

**Resistivity Range** 1.0 to 99.9  $\Omega$ •cm; 100 to 999  $\Omega$ •cm; 1.00 to 9.99 K $\Omega$ •cm; 10.0 to 99.9 K $\Omega$ •cm; 100 to 999 K $\Omega$ •cm; 1.00 to 9.99 M $\Omega$ •cm; 10.0 to 100.0 M $\Omega$ •cm

**Resistivity Resolution** 0.1  $\Omega$ •cm; 1  $\Omega$ •cm; 0.01 K $\Omega$ •cm; 0.1 K $\Omega$ •cm; 1 K $\Omega$ •cm; 0.01 M $\Omega$ •cm; 0.1 M $\Omega$ •cm\*

**Resistivity Accuracy**  $\pm 2\%$  of reading ( $\pm 1$   $\Omega$ •cm)

#### Salinity Specifications

**Salinity Range** practical scale: 0.00 to 42.00 psu; natural seawater scale: 0.00 to 80.00 ppt; percent scale: 0.0 to 400.0%

**Salinity Resolution** 0.01 for practical scale/natural seawater scale; 0.1% for percent scale

**Salinity Accuracy (@25°C/77°F)**  $\pm 1\%$  of reading

**Salinity Calibration** percent scale—one-point (with HI7037 standard)

#### Temperature Specifications



Temperature Range	-20.0 to 120.0 °C**; -4.0 to 248.0 °F**; 253.15 to 393.15 K**
Temperature Resolution	0.1 °C, 0.1 °F, 0.1 K
Temperature Accuracy	±0.2 °C; ±0.4 °F; ±0.2 K (without probe)
Temperature Compensation	disabled, linear and non-linear (natural water)
Temperature Coefficient	0.00 to 10.00 %/°C
Reference Temperature	5.0 to 30.0 °C
Additional Specifications	
Cell Constant	0.0500 to 200.00
Cell Type	4 cells
Electrode/Probe	HI1131B glass body pH electrode with BNC connector and 1 m (3.3') cable (included); HI76312 platinum, four-ring EC/TDS probe with and 1 m (3.3') cable (included)
Temperature Probe Profiles	HI7662-T stainless steel temperature probe with 1 m (3.3') cable (included) up to 10, 5 each channel
USP 7645? Compliant	yes
GLP	calibration data including date, time, buffers used, offset and slope for pH. Cell constant, reference temperature, temperature coefficient, calibration points, calibration time stamp, probe offset for conductivity
Logging	record: 100,000 data point storage, up to 100 lots with max. 50,000 records/lot; interval: settable between 1 second and max log time of 180 minutes; type: automatic, manual, AutoHOLD; additional: 200 records USP
Input Channels	1 pH/ORP + 1 EC/TDS/Salinity/Resistivity
Display	color graphic LCD with on-screen help, graphing, and custom color configuration
Connectivity	USB
Environment	0 to 50°C (32 to 122°F; 273 to 323 K), RH max 95% non-condensing
Power Supply	12 VDC adapter (included)
Dimensions	160 x 231 x 94 mm (6.3 x 9.1 x 3.7")
Weight	1.2 kg (2.64 lbs.)
Ordering Information	HI5521 is supplied with HI1131 pH electrode, HI7662-T temperature probe, HI76312 conductivity probe, HI76404W electrode holder, HI70004 pH 4.01 buffer solution sachet, HI70007 pH 7.01 buffer solution sachet, HI700601 electrode cleaning solution sachet (2), HI7082 3.5M KCl electrolyte solution (30 mL), 12 VDC power adapter and instructions.
Warranty	2 years (probe 6 months)
Notes	*Uncompensated conductivity (or TDS) is the conductivity (or TDS) value without temperature compensation. **Reduced to actual probe limits