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

PURCHASE REQUEST

PPMP No. : **9-5-188-2023-6-0-6**

Dept./Office: **DFST**

Section/End-User: **Ivy C. Emnace**

Funding Source: **General Fund - MOOE**

PR No.: **GF-2023-11-02799**

Category: **Laboratory Equipment**

Project Title/Code: **VSU-IP-2023-9**

Date: **11-14-2023**

Duration: **2023-07-01 to 2023-12-31**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Aseptic Filler Data Logger Specifications	unit	1	15,000.00		15,000.00

Specification:

Purpose:

The data logger is designed to monitor and record key parameters during the aseptic filling process, ensuring product integrity, quality, and compliance with industry standards.

Monitored Parameters:

Fill Volume: Measures and logs the volume of product filled into containers.

Temperature: Monitors and records the temperature of the product and the filling environment.

Pressure: Monitors pressure levels within the filling system.

Flow Rate: Measures and logs the flow rate of the product during filling.

Time: Records the duration of the filling process for each batch.

Accuracy:

Fill Volume: ±0.1% accuracy.

Temperature: ±0.5°C accuracy.

Pressure: ±1% accuracy.

Flow Rate: ±0.1 L/min accuracy.

Data Storage:

Storage Capacity: Minimum 2 GB internal memory.

Data Retention: Stores recorded data for at least 24 months.

Data Transfer: Supports USB and Ethernet interfaces for data download and remote access.

Power Supply:

Power Source: Operates on standard AC power supply (110-240V, 50/60Hz).

Backup Power: Includes a rechargeable backup battery for uninterrupted operation during power outages.

Display and Interface:

Display: LCD touchscreen for real-time data visualization and configuration.

Interface: Intuitive user interface for easy configuration and data retrieval.

Connectivity: Ethernet port for remote monitoring and control.

Enclosure:

Material: Stainless steel or corrosion-resistant industrial-grade casing.

Protection: IP67-rated enclosure for protection against dust and water ingress.

Alarms:

Alarms: Configurable high/low alarms for each parameter.

Compliance:

Regulatory Compliance: Complies with relevant industry standards and regulations, including FDA guidelines for aseptic processing equipment.

Software:

Data Analysis: Provides advanced software for data analysis, trend visualization, and batch-wise reporting.

Compatibility: Compatible with Windows, macOS, and Linux operating systems.

2	**Pasteurizer Data Logger Specifications**	unit	1	15,000.00		15,000.00

Specification:

Monitored Parameters:

Temperature: Measures and logs the temperature at various stages of pasteurization.

Time: Records the duration of the pasteurization process.

Pressure: Monitors pressure levels within the pasteurizer system.

Flow Rate: Measures and logs the flow rate of the liquid being pasteurized.

Accuracy:

Temperature: ±0.5°C accuracy.

Pressure: ±1% accuracy.

Flow Rate: ±0.1 L/min accuracy.

Data Storage:

Storage Capacity: Minimum 1 GB internal memory.

Data Retention: Stores recorded data for at least 12 months.

Data Transfer: Supports USB data transfer for easy retrieval and analysis.

Power Supply:

Power Source: Operates on standard AC power supply (110-240V, 50/60Hz).

Backup Power: Includes a rechargeable backup battery for uninterrupted operation during power outages.

Display and Interface:

Display: LCD screen for real-time data visualization.

Interface: Touch-screen interface for configuration and data retrieval.

Connectivity: USB interface for data download and configuration updates.