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

# PURCHASE REQUEST

PPMP No. : **PPMP-2025-092524-0551**

Dept./Office: **PRCRTC**

Section/End-User: **Blanche Franchette D. Llera**

Funding Source: **General Fund - MOOE**

PR No.: **GF-2024-10-01874**

Category: **OFFICE Equipment**

Project Title/Code: **VSU IP 2023-3**

Date: **10-02-2024**

Duration: **2025-01-01 to 2025-06-30**

| Item # | Item Description | Unit | Qty | Unit Cost | PAR/ICS | Total Cost |
|---|---|---|---|---|---|---|
| 1 | **1602 16x2 Character LCD Module Display HD44780 with I2C** | pcs | 4 | 350.00 | | 1,400.00 |
| | **Specification:** <br><br> • **Type:** 16x2 LCD display with I2C adapter <br> • **Chipset:** Based on the HD44780 parallel interface chipset <br> • **I2C Adapter:** Utilizes PCF8574 I2C chip for converting serial data to parallel data <br> • **Benefit:** Significantly reduces the number of I/O pins required on the microcontroller for data transmission <br> • **Text Color:** White <br> • **Backlight:** Blue LED backlight <br> • **Dimensions:** 80 mm x 36 mm x 18 mm | | | | | |
| 2 | **Arduino Mega 2560** | pcs | 4 | 3,500.00 | | 14,000.00 |
| | **Specification:** <br><br> • **Arduino Mega 2560 R3 Italy Microcontroller Board** <br> • **Microcontroller**: ATmega2560 <br> • **Input Voltage**: 7-12V <br> • **Digital I/O Pins**: 54 (including 14 PWM outputs) <br> • **Analog Inputs**: 16 <br> • **Flash Memory**: 256kB <br> • **Clock Speed**: 16MHz | | | | | |
| 3 | **Clip LED Magnifying Soldering Iron Stand Lens Magnifier** | pc | 1 | 500.00 | | 500.00 |
| | **Specification:** <br><br> • **Condition:** Brand New and High Quality <br> • **Features:** <br>    ○ Useful aid for soldering work or model making <br>    ○ Adjustable crocodile holding clamps <br>    ○ Bottom battery compartment with steel plate for enhanced stability <br>    ○ Ideal for situations requiring a third hand <br>    ○ Two LED lights for visibility in dark environments <br> • **Power Source:** Powered by three AAA batteries (not included) <br> • **Materials:** Metal, plastic, acrylic lens | | | | | |

- **Color:** Black
- **Magnification:**
  - Main Lens Magnification: 3.5X
  - Accessorial Lens Magnification: 12X
- **Dimensions:**
  - Main Lens Diameter: Approx. 6.5 cm
  - Accessorial Lens Diameter: Approx. 1.7 cm
  - Weld Holder Size: 3 x 9 cm (Diameter x Height)
  - Base Size: 10 x 6.5 x 2 cm (Length x Width x Height)
- **Weight:** About 350 g
- **Product List:**
  - Magnifier: 1 unit

| 4 | GSM Module | pcs | 4 | 500.00 | | 2,000.00 |
|---|---|---|---|---|---|---|

**Specification:**

- **GSM Module:** Sim900A V4.0 Kit Wireless Extension Module
- **Dimensions:** 15.8 x 17.8 x 2.4 mm
- **Frequency Support:**
  - Quad-band: 850/900/1800/1900 MHz
  - Capable of transmitting voice calls, SMS messages, and low power data
- **GPRS Support:**
  - Multi-slot class 12/10
  - Mobile station Class B
- **Compatibility:**
  - GSM 2/2+
  - Class 1: 1 W @ 1800/1900 MHz
  - Class 4: 2 W @ 850/900 MHz
- **Bluetooth Compatibility:** Bluetooth 3.0 + EDR
- **FM Support:** International band 76 ~ 109 MHz (50KHz correction level)
- **Control:** Over AT instruction set
- **Voltage:** 4.1 ~ 5V DC
- **Operating Temperature:** -40 ~ 85 °C

| 5 | Jump wire Cable Male to Male Flexible Jumper Wires for Breadboard DIY kit 16cm-24.8 cm | pcs | 260 | 5.00 | | 1,300.00 |
|---|---|---|---|---|---|---|

**Specification:**

- **Type:** Flexible Jumper Wires for Breadboard DIY kit
- **Quantity:** 65 pcs
- **Length Options:**
  - 49 pcs: 120 mm (4.3 inches)
  - 8 pcs: 160 mm (6.3 inches)
  - 4 pcs: 200 mm (7.9 inches)
  - 4 pcs: 240 mm (9.4 inches)
- **Usage:** Suitable for PCB projects, PC motherboards, and solderless breadboards
- **Color:** Random colors (black, yellow, green, blue, orange, etc.)
- **Quality:** 100% brand new and high quality

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | • **Package Included:** 1 row (65 pcs) Male to Male Jumper Wire Cable | | | | | | |
| 6 | Powerbank | unit | 1 | 2,500.00 | | | 2,500.00 |

**Specification:**

**Capacity:**

- 20,000mAh High Capacity
- Rated Capacity: 12,600mAh (5V 5.4A)

**Battery Type:**

- Lithium Polymer Battery

**Ports:**

- **USB-A (Single Port):**
  - 5V-2.4A (12W)
  - 9V-2A (18W)
  - 12V-1.5A (18W)
- **USB-A (Dual Port):**
  - 5V-3A
- **USB-C Port:**
  - 5V-3A (15W)
  - 9V-3A (27W)
  - 12V-3A (36W)
  - 15V-3A (45W)
  - 20V-2A (40W)

**Features:**

- Supports USB-C for both input and output, up to 45W
- Fast charging
- Warranty: Not less than 1 year

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7 | **RTC Module DS1302 Real Time Clock Module with battery** | pcs | 4 | 100.00 | | | 400.00 |

**Specification:**

- **RTC Module**: DS1302 Real Time Clock Module with Battery
- **Supply Voltage**: 3.3V - 5V
- **PCB Size**: 44 x 23 mm
- **Clock IC**: DS1302
- **Operating Temperature**: 0? - 70?

- **Features**:
  - Tracks second, minute, hour, day, week, month, and year
  - Ability to adjust for leap years
  - Wide working voltage: 2.0V - 5.5V
  - At 2.0V, current consumption is less than 300nA
  - Read/write clock or RAM data supports two transmission modes:
    - Single-byte
    - Many bytes group
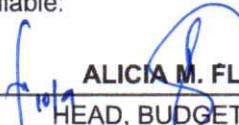  - Simple 3-line interface for easy installation
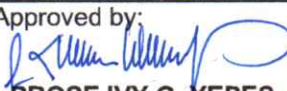
| 8 | USB cable 10 meters long USB a to Micro B | pc | 1 | 1,500.00 | | 1,500.00 |
|---|---|---|---|---|---|---|

**Specification:**

- **USB Cable**: System-S USB 2.0 Cable, Micro B Male to Type A Male
- **Length**: 10 meters (1000 cm)
- **Purpose**: Charging only, no data transfer
- **Speed**: Hi-Speed 480 Mbit/s transfer rate
- **Voltage**: 5 V
- **Maximum Current**: 2.4 A
- **Color**: Black
- **Dimensions**:
  - **A Plug**: 3.4 x 1.5 x 0.7 cm (L x W x H)
  - **Micro Plug**: 2.7 x 1.0 x 0.6 cm (L x W x H)

| | TOTAL | | | | | 23,600.00 |
|---|---|---|---|---|---|---|

Purpose: for project use

| Checked by: | | Funds Available: | |
|---|---|---|---|
| **NORMAN O. VILLAS** | | **ALICIA M. FLORES** 2025 | |
| TWG - IT Supplies and Equipment | | HEAD, BUDGET OFFICE | |

| | Prepared by: | Noted by: | Approved by: |
|---|---|---|---|
| Signature: | | | |
| Printed Name: | **BLANCHE FRANCHETTE D. LLERA** | **BLANCHE FRANCHETTE D. LLERA** | **PROSE IVY G. YEPES** |
| Designation: | | UNIT HEAD, PROJECT LEADER | PRESIDENT, VSU |