



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

SCAN HERE



PR-2023-0816-138718

PURCHASE REQUEST

PPMP No. : **24-5-2171-2023-7-0-25**

PR No.: **GF-2023-08-01796**

Date: **08-16-2023**

Dept./Office: **PRCRTC**

Category: **IT Supplies and Equipment**

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

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

Funding Source: **General Fund - MOOE**

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

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Arduino UNO microcontroller, Microchip AT mega328P	unit	12	1,500.00		18,000.00
Specification: Arduino UNO microcontroller, Microchip AT mega328P						
2	BH1750 Ambient Light Sensor	pc	12	1,800.00		21,600.00
Specification: • It can support an intel-integrated bus interface (I2C). • Spectral responsibility is approximate to the eye response of humans. • Logic input voltage – 1.8V. • Low current by power down function. • High and wide range resolution – 1 to 65535 lx • Light noise rejection – 50Hz/60Hz • Supply voltage- 4.5V. • Operating temperature- 40°C to 85°C. • Storage temperature- 40°C to 100°C. • Power dissipation- 400mA. • SDA sink current I_{max}- 7mA. • Maximum VCC voltage- 3.6V. • I2C reference voltage- 1.65V. • Supply current- 120 to 190 microamps. • Measurement accuracy- 1.44 times. • SCL clock frequency- 400KHz. • I2C bus free time- 1.3microseconds.						
3	DS3231 RTC Specifications	pc	12	350.00		4,200.00
Specification: I2C interface: Fast (400kHz) I2C Interface EEPROM: AT24C32 32Kbit Serial I2C Time Format: HH: MM: SS (12/24 hr)						

Date Format: YY-MM-DD-dd

Accuracy: $\pm 2\text{ppm}$ from 0°C to $+40^{\circ}\text{C}$

Accuracy: $\pm 3.5\text{ppm}$ from -40°C to $+85^{\circ}\text{C}$

1Hz output pin: SQW

32KHz output pin: 32K

Voltage Supply: 2.2V to 5.5V for RTC

Operating Voltage (VCC): 2.7V ~ 5.5V (including 24C32)

Operating Temperature Ranges: For Industrial (-40°C to $+85^{\circ}\text{C}$) and Commercial (0°C to $+70^{\circ}\text{C}$)

Battery Holder: 2032 Coin Battery

Size: 38 x 22 x 14 mm

Weight: 8 gm (including Battery)

4	ELEGOO Converter Adapter for Arduino With UL FCC CE Certification	pc	12	1,300.00		15,600.00
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Specification:

Model: TSL-0901

Input: 100V~240V , 50~60Hz

Output: DC 9V 1A / 1000mA

DC plug size Outer Diameter: 5.5mm . Inner Diameter: 2.5mm(compatible with 2.1mm)

Plug Specifications: US Plug

Power Supply with LED indicator

Line length: 1.5M

The adapters Connector: inside positive (+). outside negative (-)

5	Ethernet Cable	meter	25	350.00		8,750.00
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Specification:

- Category 6
- Max Data Rate: 1Gbps
- Bandwidth: 250 MHz

6	Laptop 15.6" (i7)	pc	1	50,000.00		50,000.00
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Specification:

?Processor : Intel Core i7-1005G1 Processor 4M Cache, up to 3.40 GHz or higher?Operating System : Windows 11 Home

?Memory : 16 GB Onboard memory, 1 x SO-DIMM socket , total up to 32 GB SDRAM ?Display : 15.6" LED-backlit HD (1366x768)

60Hz Anti-Glare Panel with 45% NTSC ?Graphics : Integrated Intel UHD Graphics ?Storage : 1 TB PCIe Gen3 x2 SSD or higher

?Networking : Integrated Wi-Fi 5 (802.11 ac) Bluetooth 5.0 ?Battery : 2 -Cell 32 Wh lithium-polymer battery

7	Micro SD Card Adapter Module	pc	12	400.00		4,800.00
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Specification:

- Operating Voltage: 4.5V - 5.5V DC

- Current Requirement: 0.2-200 mA
- 3.3 V on-board Voltage Regulator
- Supports FAT file system
- Supports micro SD up to 2GB
- Supports Micro SDHC up to 32GB

TOTAL

122,950.00

Purpose: For Project Use

Checked by:

DIONESIO I. ESTUPA

Funds Available:

ALICIA M. FLORES

TWG - IT Supplies and Equipment

HEAD, BUDGET OFFICE

Signature:

Printed Name:

Designation:

Requested by:

BLANCHE FRANCHETTE D. LLERA

END USER

Noted by:

BLANCHE FRANCHETTE D. LLERA

UNIT HEAD, PROJECT LEADER

Approved by:

EDGARDO E. TULIN

PRESIDENT, VSU

8/1/20