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PR-2023-0503-114765



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

PURCHASE REQUEST

PPMP No. : 33-5-2630-2023-9-0-1

Dept./Office: CET

PR No.: GF-2023-05-00791

Date: 05-03-2023

Section/End-User: Mirzi Olga P. Degracia

Category: Electronics

Duration: 2022-07-01

to

Funding Source: General Fund - MOOE

Project Title/Code: VSU-IP-2022-7

2024-12-31

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Assorted Dupont and Jumper Wires Cables	set	1	3,000.00		3,000.00

Specification:

?Wire type: 28 AWG (7 strands @ 36 AWG)

?Material: Durable hard plastic and copper wire.

?Weight: 31g (1.1oz)

?Package: Female –Female Dupont Wires – 20pcs x 300mm, Male –Female Dupont Wires – 20pcs x 300mm, Male –Male Dupont Wires – 20pcs x 300mm, Female –Female Dupont Wires – 20pcs x 200mm, Male –Female Dupont Wires – 20pcs x 200mm, Male –Male Dupont Wires – 20pcs x 200mm, Female –Female Dupont Wires – 20pcs x 100mm, Male –Female Dupont Wires – 20pcs x 100mm, Male –Male Dupont Wires – 20pcs x 100mm, Female –Female Jumper Wires – 20pcs x 300mm, Male –Female Jumper Wires – 20pcs x 300mm, Male –Male Jumper Wires – 20pcs x 300mm, Female –Female Jumper Wires – 20pcs x 200mm, Male –Female Jumper Wires – 20pcs x 200mm, Male –Male Jumper Wires – 20pcs x 200mm, Female –Female Jumper Wires – 20pcs x 100mm, Male –Female Jumper Wires – 20pcs x 100mm, Male –Male Jumper Wires – 20pcs x 100mm

2	LCD Digital Display (16x2)	unit	3	300.00		900.00
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Specification:

- LCD display module with blue backlight.
- Wide viewing angle and high contrast.
- Built-in industry standard HD44780 equivalent LCD controller.
- LCM type: Characters
- Can display 2-lines X 16-characters.
- Voltage: 5V DC.

3	Microcontroller, System on a Chip (SOC) Computer, 8GB RAM	set	1	7,000.00		7,000.00
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Specification:

?SoC Type (processor): Broadcom BCM2711, 64-bit ARM Cortex-A72 (ARMv8), Quad-core, 28nm

?core type: cortex- A72 64-bit (ARMv8)

?No. of Cores: quad-core

?GPU: VideoCore VI

?Multimedia: H.265 (4Kp60 decode); H.264 (1080p60 decode, 1080p30 encode); OpenGL ES, 3.0 graphics

?CPU Clock: 1.5 GHz

?Memory/ OS Storage: micro SD

?Ram LPDDR4: 8GB

?Ethernet: Gigabit Ethernet

?USB Port: 2 x micro HDMI support Dual Display

?wifi: 802.11 b/g/n/ac (2.4GHz + 5GHz & Shielded)

?Bluetooth: 5.0 + BLE (Shielded)

?antenna

?PCB Antenna

?GPIO

?40 pins(fully backwards- compatible with Previous boards)

?Operating System: Raspbian

?5V Via USB Type C (up to 3A), 5V Via GPIO header (upto 3A), Power over Ethernet, Requires PoE HAT

?Enclosure

?Clear Case with Fan

?Included Components

?type-C USB cord and HDMI cord

4	MUX Breakout (8 Channel)	pcs	1	900.00		900.00
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Specification:

?Operating Voltage: 1.65V - 5.5V

?Operating Temperature: -40 - 85° C

?I2C Address: 0x70 (default) up to 0x77

?10x Qwiic Connector:8x Channels

?2x Pass Through (Daisy Chain)

5	Soldering Iron Kit, with carrying case	set	1	1,000.00		1,000.00
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Specification:

?Electronics 15 Pieces Set Adjustable Temperature Soldering Tool, 5 Soldering Tips, Desoldering Pump w/ heater, Soldering Iron Stand, Tweezers, with carrying bag

?Work Voltage: 220V

?Power: 60W

?Temp Range: 200? - 450 ?

?Tweezers: ESD-15, Length at least 4.7inches

?Soldering Iron Stand: Steel

?Tips Model: 900M series

?Desoldering Pump: Plastic and aluminum alloy

?Carrying bag: Fabric

6	Temperature and Humidity Sensor, DHT22	pcs	1	350.00		350.00
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Specification:

?Sensing element


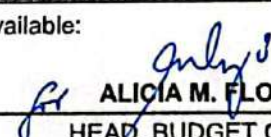


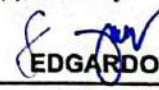
?polymer capacitor

?Power supply

?3.3 to 6V DC

?Operating range

?0-100% RH;

?-40 to 80 celsius Temp ?Dimension ?22 x 28 x 5 mm					
7	Triad Spectroscopy Sensor	set	3	5,000.00	15,000.00
Specification: ?Selectable interface: I2C or Serial (115200bps) ?18 frequencies of light sensing: 410nm to 940nm ?Special Features: ?Integrated 405nm UV, 5700k White, and 875nm IR LEDs ?Software control over each illumination LED as well as current control ?Optional external bulb or illumination control ?Programmed with latest firmware from AMS ?28.6 nW/cm2 per count ?Packing List: Triad Spectroscopy Sensor and Compatible Cord					
TOTAL					28,150.00
Purpose: For the designing of prototype					
Checked by: <div style="text-align: center;">  DIONESIO I. ESTUPA TWG Electronics </div>			Funds Available: <div style="text-align: center;">  ALICIA M. FLORES HEAD, BUDGET OFFICE </div>		
Signature: Printed Name: Designation:	Requested by: <div style="text-align: center;">  MIRZI OLGA P. DEGRACIA END USER </div>	Noted by: <div style="text-align: center;">  JANNET C. BENCURE UNIT HEAD, PROJECT LEADER </div>	Approved by: <div style="text-align: center;">  EDGARDO E. TULIN PRESIDENT, VSU </div>		