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PR-2022-1219-82879



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

PURCHASE REQUEST

PPMP No. : 24-5-2430-2022-10-0-34

Dept./Office: **PRCRTC**PR No.: **GF-2022-12-02475**Date: **12-19-2022**Section/End-User: **Raymond G. Sumaria**Category: **Office Equipment**Funding Source: **General Fund - MOOE**Project Title/Code: **VSU-IP_2021.4**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	12V Black Linear Actuator 900N 225Lbs Electric Linear Motor Moving Distance Stroke 400mm	unit	1	3,900.00		3,900.00
Specification: Material: Aluminum alloy Load capacity: 900N/225Lbs Speed: 7mm/s Rated speed: 3800RPM Input Voltage: 12V DC Stroke Length: 400mm/16 inch Duty cycle: 10% Technical Parameters: Rated power: 20W, maximum 30W. Push bar Each side contains a travel limit switch. When the telescopic bar runs to the top or to the top, it will automatically disconnect the electricity. Ambient temperature -20°C to +75°C. Standard protection class: IP54. Low noise design, noise level less than 42dB. Please do not disassemble the machine. Product features: drive other objects to push, pull, rise, drop. Product Applications: TV lift tables, massage beds, electric beds, medical chairs, electric equipment, micro-devices, electric sofas, camera frames, cameras and more.						
2	4 Channel Relay Module 5V DC 10A 250V AC Low Level Trigger with Optocoupler	pcs	3	450.00		1,350.00
Specification: 4 Channel 5V 10A Relay Module with Optocoupler The 4 channel Relay Module SPDT (Single Pole Double Throw) can control up to 4 separate devices individually. Relays are typically used to switch devices which uses a higher voltage than what most micro-controllers such as an Arduino or Raspberry Pi can handle. This particular relay module can control typical household appliance up to 10A. Specs: - 250VAC 10A, 28VDC 10A - Indicator LEDs - 5V control voltage						
3	High Torque Nema 17 Bipolar STEPPER MOTOR 92Oz.In/65Ncm 2.1 A Extruder Motor	set	1	1,200.00		1,200.00

Specification:

Very High Torque NEMA 17 bipolar 1.65 inch x1.65 inch x2.36 inch 4-wire This is one of strongest bipolar Nema 17 stepper motor with 1.8 deg. step angle (200 steps/revolution). Each phase draws 2.1A, allowing for a holding torque up to 65Ncm(92oz.in).
Electrical Specification: Motor Type: Bipolar Stepper Step Angle: 1.8 deg. Holding Torque: 65Ncm(92oz.in) Rated Current/phase: 2.1A Phase Resistance: 1.6ohms Inductance: 3mH+/-20%(1KHz) Physical Specification: Frame Size: 42 x 42mm Body Length: 60mm Shaft Diameter: 5mm Shaft Length: 24mm D-cut Length: 15mm Number of Leads: 4 Lead Length: 500mm Weight: 500g Colour: Black material: metal Connection: Black(A+), Green(A-), Red(B+), Blue(B-)

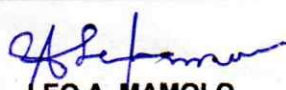



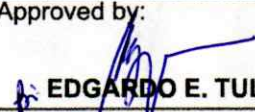
4	Nema 23 23HS5628 Stepper Motor 57 Motor 2.8A With TB6600 Stepper Motor Driver	sets	1	2,500.00		2,500.00
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Specification:

Certification:ce el:23HS5628 Current/Phase:2.8A Step Angle(degrees):1.8 Holding Torque:12600g.cm Phase:2
Shaft:8mm/6.35mm Type:Hybrid Color:black+sier Material:metal+plastic Package Contents: 1* 23HS5628 motor 1* TB6600
Stepper motor driver 1* 30CM cable
Only the above package content, other products are not included.
Note: Light shooting and different displays may cause the color of the item in the picture a little different from the real thing. The measurement allowed error is +/- 1-3cm. 8.0MM black & silver

	TOTAL					8,950.00
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Purpose: For machine fabrication

Checked by:  LEO A. MAMOLO		Funds Available:  ALICIA M. FLORES	
TWG - Office Equipment		HEAD, BUDGET OFFICE	
Signature:	Requested by: 	Noted by: 	Approved by: 
Printed Name:	RAYMOND G. SUMARIA	DANIEL LESLIE S. TAN	EDGARDO E. TULIN
Designation:	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU