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PR-2022-0331-24776

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

PURCHASE REQUEST

Dept./Office: **CVM**

PR No.: **STF-2022-03-00351**

Date: **03-31-2022**

Section/End-User: **Noel C. Bustillo**

Category: **IT Supplies and Equipment**

Funding Source: **Special Trust Fund**

Project Title/Code: **CVM ART Lab.**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	**CCTV IP Camera**	piece	6	3,192.00		19,152.00
	Specification: ?2MP WDR, with Built-in Mic ?12v, DC ?30m IR range, ?1920x1080 Max. Resolution ?Dome Type ?2.8/4mm fixed lens					
2	**Unifi 500W PoE+ Switch**	unit	1	35,000.00		35,000.00
	Specification: ?24 ports PoE+ Switch 500W ?Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports ?Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band ?Total Non-Blocking Throughput: 26 Gbps ?Switching Capacity: 52 Gbps ?Forwarding Rate: 38.69 Mpps ?MAC Address Table: 16384 ?Maximum Aggregations: 6 ?Monitoring Sessions 1; Maximum VLANs 255 ?Power Method 100-240VAC/50-60 Hz, Universal Input ?Power Supply AC/DC, Internal, 500W DC ?Max. Power Consumption: Including PoE ?Output: 500W Excluding PoE Output: 30W; ?ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV ?Shock and Vibration ETSI300-019-1.4 Standard ?Operating Temperature -5 to 40° C (23 to 104° F) ?Operating Humidity 5 to 95% Noncondensing ?Certifications CE, FCC, IC ?PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-) ?Max. PoE+ Wattage per Port by PSE 34.2W ?Voltage Range 802.3at Mode 50–57V ?Max. Passive PoE Wattage per Port 17W					

?24V Passive PoE Voltage Range 20-27V
?Should be compatible with existing Unifi Controller of the University
?1-year warranty

3	**Wireless Access Point**	unit	3	9,900.00		29,700.00

Specification:

?Networking Interface (1) 10/100/1000 Ethernet Port
?Buttons Reset
?Power Method 802.3af PoE
?Power Supply UniFi Switch (PoE)
?Power Save Supported
?Beamforming Supported
?Maximum Power Consumption 10.5W
?Supported Voltage Range 44 to 57VDC
?TX Power
?2.4 GHz
?5 GHz
?23 dBm
?26 dBm
?MIMO
?2.4 GHz
?5 GHz
?2x2
?4x4
?Radio Rates
?2.4 GHz
?5 GHz
?300 Mbps
?1733 Mbps
?Antennas
?2.4 GHz
?5 GHz
?(2) Single-Port, Single-Polarity Antennas, 2.8 dBi each
?(2) Single-Port, Dual-Polarity Antennas, 3 dBi each
?Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac/ac-wave2
?Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES), 802.11w/PMF
?BSSID 8 per Radio
?Mounting Wall/Ceiling (Kits Included)
?Operating Temperature -10 to 70° C (14 to 158° F)
?Operating Humidity 5 to 95% Noncondensing
?Certifications CE, FCC, IC
?Advanced Traffic Management
?VLAN 802.1Q
?Advanced QoS Per-User Rate Limiting
?Guest Traffic Isolation Supported
?WMM Voice, Video, Best Effort, and Background
?Concurrent Clients 200+
?Supported Data Rates (Mbps)

	?Standard Data Rates ?802.11a 6, 9, 12, 18, 24, 36, 48, 54 Mbps ?802.11n 6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40) ?802.11ac 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80) ?58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 160) ?802.11b 1, 2, 5.5, 11 Mbps ?802.11g 6, 9, 12, 18, 24, 36, 48, 54 Mbps **?Should be compatible with existing UniFi Controller**					
	TOTAL					**83,852.00**

Purpose: College use

Checked by: **MICHAEL ANTHONY JAY B. REGIS** TWG - IT Supplies and Equipment	Funds Available: **ALICIA M. FLORES** HEAD, BUDGET OFFICE

	Requested by:	Noted by:	Approved by:
Signature:			
Printed Name:	**NOEL C. BUSTILLO**	**SANTIAGO T. PEñA JR.**	**EDGARDO E. TULIN**
Designation:	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU