



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

PURCHASE REQUEST

PPMP No. : **PPMP-2025-092424-0063**

Dept./Office: **ICTMC**

PR No.: **GF-2024-11-03136**

Date: **11-14-2024**

Section/End-User: **Marco L. Cabras**

Category: **Office Equipment**

Funding Source: **General Fund - CO**

Project Title/Code: **For ICT Equipment Upgrade**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	1 Lot Hybrid Solar Power System (Solar Generator)	lot	1	1,500,000.00	SEAN O. VILLAGONZALO	1,500,000.00

Specification:

2 set(s) Hybrid Solar power system (Solar generator)

Including installation, training and commissioning.

Can use solar, grid attached & battery as power source

* Smart Inverter 3 phase with 14Kw rated output power

- 10 years warranty optional to 20 years
- Can support multiple inverters in parallel to a single or 3 phase system
- Output AC Rated Grid voltage of 220v/230v
- Output AC Rated Grid frequency of 50/60 hz
- Rated grid output current 63.6A/60.9A
- Input grid AC voltage range of 187-253
- Max input current of 95.5A/91.3A
- Input AC grid side frequency range 45-55Hz/55-65Hz

Protection

- Surge protection
- DC reverse-polarity protection
- Ground fault monitoring
- Integrated AFCI 2.0
- Protection class/Over voltage category

Solar Panel

- N-type solar Panel
- Complete with mounting

Battery Lithium-Ion

- Lithium Ion Battery 40-60 V Battery voltage range
- Battery communication CAN/RS485

Complete wiring, cabinet, termination and mounting																			
2	CCTV Augmentation for Main Campus	lot	1	2,000,000.00	MARCO L. CABRAS	2,000,000.00													
<div>Specification:</div> <table><thead><tr><th>#</th><th>Description</th><th>Qty</th><th>Unit</th></tr></thead><tbody><tr><td>1</td><td><div>PTZ 4MP 25X 150M IR</div><div>4 MP 25X Powered by DarkFighter IR Network Speed Dome</div><div>1/2.8" Progressive Scan CMOS. High quality imaging with 4 MP resolution</div><div>Focuses on human and vehicle targets classification based on deep learning</div><div>Excellent low-light performance with powered-by-DarkFighter technology</div><div>25x optical zoom and 16x digital zoom provide close up views over expansive areas</div><div>WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus</div><div>Expansive night view with up to 150 m IR distance</div><div>24 VAC & PoE (802.3at)</div><div>Efficient H.265+/H.265 compression technology</div><div>With Mounting brackets, screws and adhesive</div><div>1 Year warranty</div><div>Must be compatible with Existing HiKVision NVR</div><div>Bullet Type IP Camera</div><div>4 MP ColorVu Fixed Bullet Network Camera CCTV IP Camera H.265+ POE IP67 Outdoor IP Camera</div><div>High quality imaging with 4 MP resolution</div><div>Efficient H.265+ compression technology</div><div>30 unit</div></td><td></td></tr><tr><td>2</td><td><div>Clear imaging against strong backlight due to 130 dB WDR technology</div><div>Focus on human and vehicle targets classification based on deep learning</div><div>24/7 colorful imaging</div><div>Water and dust resistant (IP67)</div><div>1 Year Warranty</div><div>Must be compatible with existing fleet</div><div>4MP Colorvu Lite PoE Audio Dome IP Network Camera H.265 Built-in Mic Network CCTV Camera</div><div>4 MP ColorVu MD 2.0 Fixed Dome Network Camera</div><div>High quality imaging with 4 MP resolution</div><div>24/7 colorful imaging</div><div>85 unit</div></td><td></td></tr><tr><td>3</td><td><div>Support Human and Vehicle Detection</div><div>Water and dust resistant (IP67) and vandal resistant (IK08)</div><div>Clear imaging even with strong back lighting due to 120 dB WDR</div><div>Efficient H.265+ compression technolog</div><div>100 unit</div></td><td></td></tr></tbody></table>							#	Description	Qty	Unit	1	<div>PTZ 4MP 25X 150M IR</div> <div>4 MP 25X Powered by DarkFighter IR Network Speed Dome</div> <div>1/2.8" Progressive Scan CMOS. High quality imaging with 4 MP resolution</div> <div>Focuses on human and vehicle targets classification based on deep learning</div> <div>Excellent low-light performance with powered-by-DarkFighter technology</div> <div>25x optical zoom and 16x digital zoom provide close up views over expansive areas</div> <div>WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus</div> <div>Expansive night view with up to 150 m IR distance</div> <div>24 VAC & PoE (802.3at)</div> <div>Efficient H.265+/H.265 compression technology</div> <div>With Mounting brackets, screws and adhesive</div> <div>1 Year warranty</div> <div>Must be compatible with Existing HiKVision NVR</div> <div>Bullet Type IP Camera</div> <div>4 MP ColorVu Fixed Bullet Network Camera CCTV IP Camera H.265+ POE IP67 Outdoor IP Camera</div> <div>High quality imaging with 4 MP resolution</div> <div>Efficient H.265+ compression technology</div> <div>30 unit</div>		2	<div>Clear imaging against strong backlight due to 130 dB WDR technology</div> <div>Focus on human and vehicle targets classification based on deep learning</div> <div>24/7 colorful imaging</div> <div>Water and dust resistant (IP67)</div> <div>1 Year Warranty</div> <div>Must be compatible with existing fleet</div> <div>4MP Colorvu Lite PoE Audio Dome IP Network Camera H.265 Built-in Mic Network CCTV Camera</div> <div>4 MP ColorVu MD 2.0 Fixed Dome Network Camera</div> <div>High quality imaging with 4 MP resolution</div> <div>24/7 colorful imaging</div> <div>85 unit</div>		3	<div>Support Human and Vehicle Detection</div> <div>Water and dust resistant (IP67) and vandal resistant (IK08)</div> <div>Clear imaging even with strong back lighting due to 120 dB WDR</div> <div>Efficient H.265+ compression technolog</div> <div>100 unit</div>	
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3	ELECTROMECHANICAL WORKS and Activation of Precision Airconditioning Unit for VSU's Data Center.	lot	1	1,700,000.00	JEROME G. GODOY	1,700,000.00													

Specification:

1

Electromechanical Works for PACU and Condenser
 Hauling and positioning of PACU and condenser
 Supply & Installation of refrigerant pipe w/ insulation
 Supply & Installation of pipe supports
 Supply & installation of Electrical Wires from tapping point to PACU
 Supply & installation of Electrical and Control Wires with conduit from PACU to Condenser
 Supply & Installation of water line and drain line, tap to nearest point
 Flushing and Leak testing of pipes
 Vacuuming of the system
 Supply of Refrigerant
 Housekeeping works
 Supply and installation of Grounding System

2

Supply and installation of the following:
 MDP, UPS-DP, PACU-DP and its breakers
 Wiring from MDP to UPS-DP
 Wiring from UPS-DP to UPS location
 Wiring from MDP to PACU-DP
 Supply and install of 25kVA 3ph Xmer
 Supply and install input/output breakers of 25kVA 3ph Xmer

4	Laptop, 13.3", Retina Display, M1 Chip (8 Cores)	unit	5	75,000.00	NORMAN O. VILLAS	375,000.00
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Specification:**Display:**

- **Size:** 13.3 inches (diagonal)
- **Resolution:** 2560 x 1600 pixels
- **Brightness:** 400 nits
- **Color Support:** Wide color (P3), True Tone technology
- **Technology:** LED-backlit, IPS

Processor:

- **Chip:** M1
- **Cores:** 8-core CPU (4 performance, 4 efficiency), 8-core GPU
- **Neural Engine:** 16-core

Battery and Power:

- **Battery Life:** Up to 15 hours wireless web, Up to 18 hours Apple TV app movie playback
- **Battery:** 49.9 watt-hour lithium polymer
- **Adapter:** 30W USB-C Power Adapter

Charging and Expansion:

- **Ports:** Two Thunderbolt/USB 4 ports
- **Support:** Display Port, Thunderbolt 3 (up to 49Gb/s), USB 4 (up to 40Gb/s), USB 3.1 Gen 2 (up to 10Gb/s)

Memory:

- **Storage:** 512GB unified memory (configurable to 1TB or 2TB)

Keyboard and Trackpad:

- **Keyboard:** Backlit Magic Keyboard with 78 (US) or 79 (ISO) keys, ambient light sensor
- **Trackpad:** Force Touch trackpad with Multi-Touch gestures, pressure sensing capabilities
- **Touch ID:** Yes

Wireless:

- **Wi-Fi:** 802.11ax Wi-Fi 6, IEEE 802.11 a/b/g/n/ac compatible
- **Bluetooth:** 5.0

Camera:

- **FaceTime HD Camera:** At least 720p

Video Support:

- **Built-in Display:** Full native resolution at millions of colors
- **Thunderbolt 3 Video Output:** Native Display Port over USB-C, with support for VGA, HDMI, DVI, and Thunderbolt 2 via adapters

Audio:

- **Speakers:** Stereo, Wide stereo sound
- **Playback:** Dolby Atmos
- **Microphone:** Three-mic array with directional beamforming
- **Headphone Jack:** 3.5 mm

5	Network Backbone 10G Speed and Security Upgrade	lot	1	7,208,000.00	NORMAN O. VILLAS	7,208,000.00
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Specification:

Enterprise Campus Aggregation

Unifi ECS-Aggregation

Must be compatible with existing VSU Unifi Controller

1.8 Tbps high-density 100G/25G Layer 3 Etherlighting aggregation switch with MC-LAG support for high availability system design.

(48) 25G SFP28 and (6) 100G QSFP28 ports

2 unit

Multi-Chassis Link Aggregation (MC-LAG) support*

Layer 3 automatic failover (VRRP) support**

BGP Dynamic Routing***

(2) included hot-swappable power modules, with 1+1 redundancy

(5) included hot-swappable fan modules, with 4+1 redundancy

3M 100G Direct Attach Cable Must be compatible with Unifi Enterprise Campus Aggregation UnifiECS 6 unit

USW-Pro-Aggregation

Must be compatible with existing Unifi Controller

A 32-port, Layer 3 switch made for high-capacity 10G SFP+ and 25G SFP28 connections.

(28) 10G SFP+ ports

(4) 25G SFP28 ports

15 unit

DC power backup-ready

Layer 3 switching

10G Single-Mode Optical Module

20 packs

UACC-OM-SM-10G-D-20

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a duplex

LC UPC connector.

10 packs

Max data rate: 10 Gbps

Compatible with SFP+ and SFP interfaces

Duplex LC UPC connector

Supports single-mode fiber connections up to 10 km

25G Single-Mode Optical Module

UACC-OM-SFP28-LR

SFP28 transceiver that supports 25G connections up to 10 km using single-mode fiber with a duplex

LC UPC connector.

30 unit

Max data rate: 25 Gbps

Compatible with SFP28, SFP+, and SFP interfaces

Duplex LC UPC connector

Supports single-mode fiber connections up to 10 km

1G Bidirectional Single-Mode Optical Module

UACC-OM-SM-1G-S-20

FP transceiver that supports 1G connections up to 3 km using single-mode fiber with a simplex LC

UPC connector.

20 packs

Max data rate: 1 Gbps

Compatible with SFP interfaces

Simplex LC UPC connector

Supports single-mode fiber connections up to 3 km*

10G Bidirectional Single-Mode Optical Module

20 packs

UACC-OM-SM-10G-S-20

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a simplex

LC UPC connector.

2 packs

Max data rate: 10 Gbps

Compatible with SFP+ and SFP interfaces

Simplex LC UPC connector

Supports single-mode fiber connections up to 10 km*

OS2 Duplex LC UPC Fiber Patch Cable
3 Meters

100 units

USW-Pro-24-POE

60 units

GYTC8S 24 CORES FIGURE 8 3KM/ ROLL, 8 FIBERS PER TUBE, ARMORED, W/ MESSENGER
2.4mm

4 Reel

Unifi Lite 8 PoE

Must be compatible with existing VSU unifi controller

8-port, Layer 2 PoE switch supporting silent fanless cooling.

(4) GbE PoE+, (4) GbE ports

52W total PoE availability*

Wall mountable

Mechanical

Dimensions 99.6 x 163.7 x 31.7 mm (4 x 6.4 x 1.3")

Weight 295 g (10.4 oz)

Enclosure material Polycarbonate

Hardware

Management interface Ethernet In-Band

Networking interface (8) GbE RJ45 ports

PoE interface (4) PoE/PoE+ (Pins 1, 2+; 3, 6-)

Total non-blocking throughput 8 Gbps

Switching capacity 16 Gbps

Forwarding rate 11.904 Mpps

Power method 54V DC, 1.1A power adapter

Power supply 54V, external, 60W

Supported voltage range 50—57V DC

Max. power consumption 8W (Excluding PoE output)

Total available PoE 52W*

*With an external 60W power adapter.

Max. PoE wattage per port by PSE PoE+: 30W

Button Factory reset

Ambient operating temperature -15 to 40° C (5 to 104° F)

Ambient operating humidity 10 to 90% noncondensing

Certifications CE, FCC, IC

30 units

Switching Features

Layer 2 features IGMP snooping

STP / RSTP with priorities and port-level disable

Port isolation

Storm control

Voice VLAN

Port mirroring

LACP port aggregation

Multicast / broadcast rate limiting

MAC address blocking

Flow control

802.1X control

Jumbo frames

Proprietary loop protection

DHCP snooping / guarding

Egress rate limit

LLDP-MED

Port restricted by MAC

Device isolation with ACLs

Layer 3 features –

LEDs

System Status

Ethernet PoE

Speed/link/activity

Outdoor STP Cat 5e Outdoor Category 5e cable designed to resist harsh weather damage and electromagnetic interference.

Specifications

Box dimensions 330 x 330 x 340 mm (13 x 13 x 13.4")

Box weight 12.6 kg (27.78 lb)

Cable length 305 m (1000 ft)

Cable color White

Cable type Category 5e

Shielding type STP

Flame rating VW-1 (UL1581)

UV resistance ASTM G 151/154

Conductor wire gauge 24 AWG

Conductor type Solid bare copper

Jacket material Thermoplastic elastomer (TPE)

Jacket diameter 6 mm (0.24")

Bend radius Min. 24 mm (0.94")

Storage temperature -30 to 75°C (-22 to 167°F)

Installation temperature -20 to 60°C (-4 to 140°F)

Ambient operating temperature -40 to 80°C (-40 to 176°F)

Anti-crosstalk divider No

Ripcord Yes

Standards TIA/EIA-568-B.2

ISO/IEC 11801

30 boxes

6	Replacement batteries for APC various APC UPS	lot	1	1,300,000.00	JEROME G. GODOY	1,300,000.00
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Specification:

Quantity	UPS Model	Replacement Battery
2	SMC3000RMI2U	APCRBC151
4	SMT3000I	APCRBC55
6	SMT1000RMI2U	APCRBC132
6	SMT1500RMI2U	APCRBC133
2	SMC1000I-2U	APCRBC124
2	SRV2KRI	APCRBCV201
3	SRV3KRI	APCRBCV202
1	SUA1000I	RBC6
2	Back-UPS Pro 1500	APCRBC124

7	Upgrade of Wireless Network for VITA Campuses	lot	1	7,068,182.00	NORMAN O. VILLAS	7,068,182.00
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Specification:

300 units of Unifi NanoHD

- **Networking Interface:**
 - 1 x 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:** 23 dBm
 - **5 GHz:** 26 dBm
- **MIMO:**
 - **2.4 GHz:** 2x2
 - **5 GHz:** 4x4
- **Radio Rates:**
 - **2.4 GHz:** 300 Mbps
 - **5 GHz:** 1733 Mbps
- **Antennas:**
 - **2.4 GHz:** (2) Single-Port, Single-Polarity Antennas, 2.8 dBi each
 - **5 GHz:** (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% Non-condensing
- **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):**
 - **802.11a:** 6, 9, 12, 18, 24, 36, 48, 54 Mbps
 - **802.11b:** 1, 2, 5.5, 11 Mbps
 - **802.11g:** 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)
 - **802.11ac (VHT 160):** 58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2)

- **Compatibility:** Should be compatible with existing UniFi Controller

8	Upgrade of Wireless Network for VSU Main	lot	1	6,729,920.00	NORMAN O. VILLAS	6,729,920.00
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Specification:

Hardware

Networking interface (1) 1/2.5 GbE RJ45 port

Management interface Ethernet
Bluetooth

Power method PoE+

Power supply UniFi PoE switch
48V, 0.5A PoE adapter (Optional)

Supported voltage range 44—57V DC

Max. power consumption 22W

Max. TX power 22 dBm

2.4 GHz 26 dBm

5 GHz 26 dBm

6 GHz 26 dBm

MIMO 2 x 2 (DL/UL MU-MIMO)

2.4 GHz 4 x 4 (DL/UL MU-MIMO)

5 GHz 4 x 4 (DL/UL MU-MIMO)

6 GHz 4 x 4 (DL/UL MU-MIMO)

Max. data rate 573.5 Mbps (BW40)

2.4 GHz 4.8 Gbps (BW160)

5 GHz 4.8 Gbps (BW160)

6 GHz 4.8 Gbps (BW160)

Antenna gain 3.2 dBi

2.4 GHz 5.3 dBi

5 GHz 6 dBi

6 GHz 6 dBi

LEDs White/blue

Button Reboot and factory-reset

Mounting Wall, ceiling (Included)

Ambient operating temperature -30 to 60° C (-22 to 140° F)

Ambient operating humidity 5 to 95% noncondensing

Certifications CE, FCC, IC

Software

WiFi standards 802.11a/b/g/n/ac/ax (WiFi 6/6E)

Wireless security WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)

BSSID 8 per radio

VLAN 802.1Q

Advanced QoS Per-user rate limiting

Guest traffic isolation Supported

Concurrent clients	600+
Zero-wait DFS	Yes*
	*Supported with upcoming firmware versions.
Supported Data Rates (Mbps)	
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n	6.5 Mbps to 600 Mbps (MCS0 - MCS31, HT 20/40)
802.11ac	6.5 Mbps to 3.4 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)
802.11ax (WiFi 6/6E)	7.3 Mbps to 4.8 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)

Should be compatible with existing Wireless Controller and Existing fleet of Unifi Access Points

9	Video Conferencing System	unit	5	175,000.00	NORMAN O. VILLAS	875,000.00
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Specification:

Ultra-HD imaging system supports: 4K, 1440p, 1080p, 900p, 720p, and SD at 30fps 1080p, 720p at 30 fps and 60 fps Smooth motorized pan, tilt and zoom Pan: $\pm 90^\circ$ Tilt: $+50^\circ$ / -90° 15x HD zoom 90° field of view Adaptive pan and tilt speed up to 70° /second (slows when zoomed in for easier control) Automatic inversion detection to correct image orientation and camera controls when mounted upside down Autofocus 3 camera presets Kensington® security slot Video mute/unmute LED indicator Standard tripod thread Lens parks at -90° in sleep mode for assured

High-performance 3" (76mm) driver Patent pending suspension system eliminates vibration-induced camera shake and audio interference Mini XLR cable (9.6 ft (2.95m)) connects to Rally Display Hub for both signal and power

Camera to Display Hub 6.5 ft (2m) USB 3.1 Type C to USB Type C 3.1 Conference Room Computer to Display or Table Hub 6.5 ft (2m) USB 3.1 Type A to USB Type B Display Hub to Table Hub 16.4 ft (5m) CAT6A Ethernet cable (supports customer-supplied cables up to 164 ft (50 m) Display Hub to Speaker (x2) 9.6 ft (2.95m) Mini XLR (supports customersupplied extension cables up to 9.8 ft (3m)) Conference Room Computer to Displays (x2) 6.5 ft (2m) HDMI A Mic Pod 9.6 ft (2.95m): Hardwired with 12 pin connector Power Outlets to Power Supplies (x2) 3.2 ft (1m) Power Supplies to Table Hub / Display Hub (x2) 4.9 ft (1.5m)

Pickup range: 15 ft / 4.5m diameter Four microphones with eight beamforming elements Mute button with LED status indicator Captive cable: 9.6 ft (2.95m) Daisy chain up to 7 Rally Mic Pods Recommended participants: Rally (one Mic Pod): 10 Rally Plus (two Mic Pods): 16 Additional participants per Mic Pod: 6 Recommended participants for Rally with 7 Mic Pods: 46

HDMI Type A (x2) (connects to displays) Power input USB C (connects to Rally Camera) USB Type B (connects to meeting room computer) RJ45 (connects to Table Hub) Mini XLR (x2) (connects to Rally Speakers) Powers one or two Rally Speakers

RightLight with Wide Dynamic Range (WDR) RightSight automatic camera control1 RightSound Mic Matrix RightSound Anti-Vibration Speakers

Plug-and-play USB connectivity Certified for Skype for Business and ready for Teams Certified for Google Hangouts Meet
 Hardware Zoom Certified Cisco Compatible Compatible with BlueJeans, BroadSoft®, Vidyo™, and other video conferencing,
 recording, and broadcasting applications that support USB cameras

RF remote control (line of sight not required) CR2032 batteries (included)

Speaker: 1 (Rally) or 2 (Rally Plus) Mic Pod: 1 (Rally) or 2 (Rally Plus) Table Hub Display Hub 2 x Power Supplies Remote Control
 USB C to C cable USB A to B cable CAT6A 2 x HDMI A to A cable Documentation

UVC/plug-and-play compatible Windows® 10, 8.1, 7 macOS® 10.10 or later Chrome OS

	TOTAL					28,756,102.00
Purpose: For ICT-MIS use						
Checked by:				Funds Available:		
NORMAN O. VILLAS				ALICIA M. FLORES		
TWG - Office Equipment				HEAD, BUDGET OFFICE		
Signature: Printed Name: Designation:	Prepared by:		Noted by:		Approved by:	
	MARCO L. CABRAS		SEAN O. VILLAGONZALO		PROSE IVY G. YEPES	
			UNIT HEAD, PROJECT LEADER		PRESIDENT, VSU	

