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PR-2022-1025-71665

Op 10/27/22



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

PURCHASE REQUEST

PR No.: GF-2022-10-02178

Date: 10-25-2022

Category: **IT Supplies and
Equipment**

Project Title/Code: **Completion and Refurbishing of
the Old Library Annex Building (ICT Equipment
Outlay)-2023**

Dept./Office: **DepStat**Section/End-User: **Monna E. Bengalan**Funding Source: **General Fund - CO**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Desktop Computer with Monitor, Assembled, Core i5 12Gen, 8GB RAM, GTX 1050Ti.	lot	1	2,790,000.00		2,790,000.00

Specification:

60 units of Desktop Computer

- Processor: Intel® i5-12400 Total Cores: 6, Threads: 12, Max Turbo Frequency: 4.40Ghz, Performance Core Base Frequency: 2.5Ghz, Cache: 18MB, Processor Graphics: Intel® UHD Graphics 730 or higher
- Motherboard: Intel® H610 Chipset for 12th Gen Intel® Core™ Series Processors, Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs, 6+1+1 Hybrid Digital VRM Design, Intel® GbE LAN, NVMe PCIe 3.0 x4 M.2, High Quality Audio Capacitors and Audio Noise Guard, mATX form factor or higher
- RAM: 8GB DDR4 3200 MHz CL16, Intel® XMP-ready and XMP Certified, Low-profile heat spreader design or higher
- SSD: 512 GB M.2 2280 Form Factor PCIe Gen3x4 Interface, read up to :1700 MB, write up: 1550 MB/s or higher
- Casing: mATX/ATX casing with transparent acrylic side panels and Cooler Fan Support: front panel 3*120mm/top 2*120mm/rear 1*120mm
- Graphics Processor: Nvidia GTX 1050 Ti 4GB GDDR5 128 bit(DVI/HDMI/DP)
- PSU:500w, True Rated Power Supply 80 plus Bronze Rated PSU for Micro ATX and ATX casing or higher
- Monitor: 24" In Plane Switching (IPS), Full HD 1920x1080 Resolution, Response Time: 5ms, Refresh Rate: 75Hz, Brightness: 250 cd/m2
- Keyboard and Mouse Combo: Spill-resistant design with up to Up to 5 million keystrokes keyboard and full-sized ambidextrous optical mouse
- Operating System: Genuine Windows 10 or higher

Provision of MATLAB EDUCATION (for academic use) license for 2 desktop units. - 90,0000

2	Laser Printer, 4 in 1 Print, Scan, Copy, Fax with WiFi Connectivity and Duplex Printing	unit	1	60,000.00		60,000.00
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Specification:

- General type: Colour Multifunctional for A4 format
- Technology: Colour Laser
- Engine speed: Up to 21 pages A4 per minute in colour and b/w

- Resolution: 1,200 x 1,200 dpi print at reduced speed, multibit technology for print quality up to 9,600 x 600 dpi (print), 600 x 600 dpi, 256 greyscales per colour (scan/copy)
- Warm-up time: Approx. 32 seconds or less
- Time to first print: Approx. 11/12.5 seconds or less in b/w / colour
- Time to first copy: Approx. 10/12 seconds or less in b/w / colour
- General memory: Standard 512 MB, Max. 1,536 MB
- Input capacity: 50-sheet multi-purpose tray, 60-220 g/m², A4, A5, A6, B5, Letter, Legal, Folio, Envelopes, Custom (70 x 148 to 216 x 356 mm), 250-sheet universal paper cassette, 60-163 g/m², A4, A5, A6, B5, Letter, Legal, Folio, Custom (105 x 148 to 216 x 356 mm)
- Max. input capacity with options: 550 sheets
- Duplex unit: Duplex as standard supports 60-120 g/m²
- Max. output capacity: 150 sheets face-down
- Document processor: 50-sheet, Simplex scan 50-160 g/m², Duplex scan 50-110 g/m², A4, A5, A6, B5, Letter, Legal, Custom (105 x 148 mm to 216 x 356 mm)
- Processor: Cortex A9, 800MHz
- Controller language: PRESCRIBE IIc Emulations PCL 6 (5c/XL), KPD L 3 (PostScript 3 compatible), PDF Direct Print, XPS Direct Print Fonts
- Applicable OS: All current Windows operating systems, MAC OS X Version 10.8 or higher, Unix, Linux
- Max. original size: A4/Legal
- Digital copy features: Auto Colour Mode, Scan-once-copy-many, electronic sort, 2in1, 4in1, ID-card copy, priority print, program, auto duplex copy, continuous scan, auto cassette change, copy density control
- Zoom range: 25 - 400 % in 1% steps
- Continuous copy: 1 - 999 (When optional memory is installed)
- Compression format: MMR/JPEG
- File type: TIFF, PDF, PDF/A, JPG, XPS
- Scan resolution: 600, 400, 300, 200 dpi (256 grey scales per colour)
- Scan speed: 30 ipm (300 dpi, A4, b/w), 23 ipm (300 dpi, A4, colour)
- FAX Compatibility: ITU-T Super G3
- Modem speed: Max. 33.6 kbps
- Scanning speed: 2 seconds or less
- Transmission speed: 3 seconds or less
- Standard interface: USB 2.0 (Hi-Speed), USB Host Inter-face, Gigabit Ethernet 10BaseT/100BaseTX/1000BaseT), Wireless LAN, Slot for optional SD/SDHC-Card

3	Network infrastructure (Statistics, Physics & Math)	lot	1	1,150,000.00		1,150,000.00
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Specification:

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Network Switches (2 units)

Units-HP 1930 (Based on VSU existing HP fleet of network equipment)

- 24 ports

- Layer 3

Network Switches (10 units)

Unifi PoE 24 port Switch (Based on existing Unifi switch fleet of networking equipment)

- Unifi USWPro 24 port PoE
- Gigabit speed
- (1) 1.3" LCM color touchscreen with AR switch management
- (24) GbE RJ45 ports
- (2) 10G SFP+ ports
- (1) USP RPS DC Input
- Layer 3 Switching feature
- Total Non-Blocking Throughput: 44Gbps
- Switching Capacity: 88 Gbps
- Forwarding Rate: 65:472 Mpps
- USP RPS DC Input 100-240 VAC, 50/60 Hz, 11.5VDC, 2.61A
- Max Power Consumption 30W

Network WiFi Access Points (15 units)

Unifi Nano HD

Existing fleet of VSU WiFi Access Points

Network IP Phones (9 units)

Cisco CP-6821 same existing fleet of VSU IP Phones

IP Network Camera (15 units)

Hikvision, Dome type camera, 4 Mega Pixel IP67 (Same brand of Existing VSU fleet camera)

Uninterruptible Power Supply (8 units)

1000 watts, 1500VA, Universal type of outlet, built-in AVR

Data Cabinet 6U (2 units)

ISO compliant

Networkable Public Address System (1 LOT)

Multi-interface Unit complete with compatible amplifier and power supply system.

- Power Source: 230 V AC, 50/60Hz
- Audio Input: 2 inputs (2P/input), Max 0dBV, under 600Ohms balanced, with a semi-fixed volume for adjustment (0 to 25 dB), Control: 2 inputs (2P/input), no-voltage make contact input, open voltage 12VDC, short-circuit current 10mA Removable terminal block (8 pins).
- Audio Output: 2 outputs (2P/output). Max 0 dBV, under 600Homs balanced, Control: 2 outputs (2P/output), contact capacity: 24V DC/0.5A, Removable terminal block (8 port)
- Contact input: 16 inputs, no-voltage make contact input open voltage 12V DC. Short-circuit current 10mA removable terminal block (18 pins) (1 common terminal for 4 inputs).
- Contact Output 16 outputs, relay contact output, contact capacity 24V DC/0.5a, Removable terminal block (18 pins).

Network Section:

- Network I/F: 10BASE-T/100BASE-TX (automatic negotiation)
- Network Protocol: TCP/IP, UDP, ARP, ICMP, HTTP, RTP, IGMP
- Audio Packet Transmission System: Unicast, Multicast
- Voice Packet Loss Recovery: Silence insertion
- Audio Delay Time: 80ms, 320 ms(controllable on the software)

Compatible amplifier system complete with Power supply, reflex horn speaker and wire.

- EN54 certified
- UL Certified
- 6 Zone
- Fully compatible to Multi-interface unit
- rated output: 360Watts
- Frequency Response: 50Hz to 20Khz +/- 3dB
- Distortion : under 0.7% (at rated output 1kHz)
- Signal to Noise Ratio: Over 85 dB
- Inputs: Input 1 - 3: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 Ω , electronically balanced, combined XLR connector

(female)/phone jack

Input 4: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 Ω , electronically balanced, removable terminal block (14 $\times$ 2 pins)

BGM 1 - 2: -10 dB*, 10 k Ω , unbalanced, RCA pin jack

External amplifier input: 100 V line, removable terminal block (14 pins)

- Output: Speaker output 1 - 2: Max. (360 W) per output

Speaker output 3 - 6: Max. (120 W) per output

Speaker output 1 - 6: Total within 360 W, removable terminal block (14 pins)

Allowable minimum load: 500 Ω (20 W) at 100 V line for speaker line failure detection

Direct output: Direct output from internal or external amplifier, removable terminal block (16 pins) Recording output BGM/Paging: 0 dB*, 10 k Ω , unbalanced, RCA pin jack

- RM Link : Input 1 - 2: Connecting the RM-300MF/RM-200M Remote Microphone.

RJ45 female connector

Maximum distance: Total 800 m (874.89 yd) between this unit and remote microphones

Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)

- Network I/F: 10BASE-T / 100BASE-TX (selectable by automatic negotiation), RJ45 female connector

Maximum distance: 100 m (109.36 yd) between this unit and a switching hub

Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)

- VM Link: Output: Connecting the VM-3240E or VM-3360E, RJ45 female connector

Maximum distance: 800 m (874.89 yd)

Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)

• Ext PA Link: Connecting the VP-2421, RJ45 female connector Maximum distance: 5 m (16.4 ft) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)

• General Control: Input 1 - 8: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA or less, removable terminal block (14 $\times$ 2 pins)

Output 1 - 8: Isolated open collector output, withstand voltage: 30 V DC, operating current: 10 mA or less, removable terminal block (14 $\times$ 2 pins)

• Emergency Control System: Input 1 - 5: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA or less, RJ45 female connector Input 6: Isolated voltage input, Inactive: -24 V $\pm$ 20 %, Active: +24 V $\pm$ 20 %, RJ45 female connector Status out: Relay contact output, withstand voltage: 40 V DC, operating current: 2 - 300 mA, RJ45 female connector.

- ATT Control: Relay contact 1-6, 125 V AC or 30 V DC, total under 5 A, removable terminal block (16 pins)

• Power Input/Output: Power in: Connecting the VX-2000DS only (operating range: 20 - 40 V DC) PS out: 28 V DC/24 A, M4 screw terminal, distance between barriers: 11 mm (0.43")

- DC 24V Output: 24 V DC, Maximum feeding current 0.3 A
- DS Link: Connecting the VX-2000DS, RJ45 female connector Maximum distance: 5 m (16.4 ft)

Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)

- Operating Temperature: -5 ? to +45 ? (23 ?F to 113 ?F)
- Complete with input transformer
- Accessory: Power cable (2 m (6.56 ft)) ...1, Setting software-CD ...1, Link cable (3 m (9.84 ft)) ...2, Removable terminal plug (14 pins)...3, Removable terminal plug (16 pins) ...1, Emergency microphone (hand-held type) ...1
- Compatible with the existing network services using TCP/IP protocol.

Reflex Horn Speaker (12 Units), 30 watts

Speaker wire (10 Spool) for horn speaker complete with mounting bracket,

- WAN capable ready for Multi-campus with multi-building application.
- 6 zones
- Campus wide time annunciator, BGM and bldg EVAC(hourly) via PA system. Per building or all the buildings.

4	Projector, Ultra portable Wireless Full HD	unit	2	79,000.00		158,000.00
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Specification:

?Projection Technology: RGB liquid crystal shutter projection system
 ?Auto Iris:10,000:1
 ?White Light Output (Normal): at least 3,200lm
 ?Colour Light Output:(Normal / Eco): at least 3,200lm / 1,900lm
 ?Network: Wireless LAN; In-built
 ?Analog Input: D-Sub 15 pin; 1(Blue);Composite; RCA x 1
 ?Digital Input: HDMI; 1(MHL)
 ?Audio Input: Stereo Mini Jack: 1
 ?Others: USB Type A: 1 (for USB Memory, USB Document Camera, Firmware Update)
 ?USB Type B: 1 (for USB Display, mouse, K/B/, Control, Firmware Update)
 ?Supported Speed for Each Mode: IEEE 802.11b: 11 Mbps
 ?IEEE 802.11g: 54 Mbps
 ?IEEE 802.11n: 130.0 Mbps
 ?Wireless LAN Security: Quick Mode: WPA2-PSK
 ?Advanced Mode: WPA2-PSK, WPA/WPA2-PSK, WPA2-EAP
 ?Supported EAP type: PEAP, PEAP-TLS, EAP-TLS, EAP-Fast, LEAP
 ?Supported Connection Mode: Infrastructure, Access Point
 ?Operating Temperature:5°C - 40°C < 41°F - 104°F> (0 m / 0 ft to 2,286m / 7,500ft)
 ?5°C - 35°C < 41°F - 95°F> (over 2,286m / 7,500ft) (20% - 80% humidity, No condensation)
 ?Operating Altitude:0m - 3,000m (0ft - 9,843 ft) (over 1,500m / 4,921ft: with high altitude mode)
 ?Start-Up Period: About 7.2 seconds, Warm-up period: 30 seconds
 ?Cool Down Period: Instant off

?Sound Output: Monaural: 1W X 1
 ?Direct Power On/Off: Yes/Yes
 ?Dimension Excluding Feet (W x H x D):292mm x 44mm x 213mm
 ?Fan Noise (Normal / Eco):39 dB / 30dB
 ?Supported Speed for Each Mode: IEEE 802.11g (2.4GHz): 54Mbps
 ?IEEE 802.11n (2.4GHz): 130.0 Mbps
 ?IEEE 802.11a (5GHz): 54 Mbps
 ?IEEE 802.11n (5GHz): 270.0 Mbps
 ?IEEE 802.11ac (5GHz): 780 Mbps
 ?Supported Connection Mode: Wi-Fi Direct

TOTAL

4,158,000.00

Purpose: For office and training use

Checked by:


MICHAEL ANTHONY JAY B. REGIS

Funds Available:


ALICIA M. FLORES *20110-201*
 HEAD, BUDGET OFFICE *ICT*

TWG - IT Supplies and Equipment

Signature:

Printed Name:

Designation:

Requested by:


MONNA E. BENGALAN

END USER

Noted by:


MAY ANN E. PALEN

UNIT HEAD, PROJECT LEADER

Approved by:


EDGARDO E. TULIN

PRESIDENT, VSU