VISAYAS STATE UNIVERSITY

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Louella C. Ampac
Financial Management Director
Visayas State University
Visca, City of Baybay, Leyte

Thru:
Beatriz S. Belonias
VP for Academic Affairs

Good day.

I would like to thank your good office for the Php 581,740.00 budget that you've allocated to our department for FY 2023 (Lab share and sub-allotment). However, the said budget is insufficient to replace our aging laboratory computers especially now that most application program interface (API), machine learning and artificial intelligence (AI) tools, parallel processing platforms, web frameworks, software development kit (SDK) and scientific computing tools are computationally and memory intensive.

Based on the recent inventory of our laboratory technician together with our faculty who specialized on computer hardware, one (1) laboratory i.e. Room 203 is practically useless since the twenty-four (24) computers present are powered obsolete by Intel® Atom™ purchased circa 2012. Furthermore, although the forty-eight (48) computers on laboratory Rooms 202 and 103 are Intel ® Core ™ i3 and i5 series with 4 GB or RAM, these are several generations behind from the current 13th generation Core i-series. These computers are more than 6 years old already. If it were not for the solid state drive that was installed as upgrade to these machines, the utility of those machines would seriously be hampered. Finally, we need to upgrade the local wireless connectivity on the laboratories because most students who would bring laptops to class would unplug the ethernet cables that are already fixed on desktop computer(s).

In line with this, we would like to request for additional budget based on the itemized list of priority equipment enumerated in Table 1.

Table 1. Itemized details of the equipment for purchase

Item and Specification (Based on SPPMIS)	Quantity	Unit Price (Based on SPPMIS)	Total Price	Purpose
Desktop Computer, Assembled, 12th Gen Core i3, 8GB RAM with Monitor and 600W Bronze PSU, No OS • Processor: Intel i3-12100 4C/8T 3.30 GHz up to 4.30 GHz, with 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 3200MHz or higher • SSD: 250 GB SATA III, read speeds up to 550 MB/s or higher • Generic mATX casing • 600W 80 plus Bronze Certified PSU • Monitor o Size: 21.5" o Panel Type: VA o Resolution: 1920x1080 (FHD) o Refresh Rate: 75Hz o Response Time: 5MS o Interface: VGA, HDMI o With a slim and 3-sided frameless design o Flicker Free and Low Blue Mode eye	24	27,000	648,000	Replacement of computers for room 203

protection technology ○ VESA mount compatibility				
Graphics Processor, RTX 3050 • Core code and process: GA106/8nm • Unified shader: 2560 • Core frequency: 1552/1777MHz • Memory capacity and specifications: 8G/128bit/GDDR6 • Bus Interface: PCI-Express 4.0 x8 • Output interface: HDMI 2.1*1 + DP 1.4a*3	20	19,000	380,000	Computing accelerators for laboratory room 203
Ethernet Switch, 48-Port Gigabit Rackmount • 48 10/100/1000Mbps RJ45 ports • Innovative energy-efficient technology saves power consumption • Supports MAC address self-learning and auto MDI/MDIX • Standard 19-inch rack-mountable steel case • Standards and Protocols IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x • Interface 48 10/100/1000Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX) • Network Media 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) • 100BASE-TX/1000BASE-T: UTP category 5, 5e or above cable (maximum 100m) • Physical Security Lock No • Switching Capacity 96Gbps • Packet Forwarding Rate 71.4Mpps	3	16,000	48,000	Network switches for laboratory Room

• MAC Address Table 16K • Buffer Memory 12Mb • Jumbo Frame 12KB • Transfer Method Store-and-Forward • Certification FCC, CE, RoHS				
Wifi 5 Mesh Router • Wi-Fi 5: IEEE 802.11ac/n/a 5 GHz, IEEE 802.11n/b/g 2.4 GHz • AC1300: 5 GHz: 867 Mbps (802.11ac), 2.4 GHz: 400 Mbps (802.11n) • Mesh Technology • 4× Antennas (Internal) • Beamforming • Qualcomm 717 MHz Quad-core CPU • Supports WAN/LAN auto-sensing • WPA-Personal • WPA2-Personal • Certification: CE, FCC, IC, NCC, BSMI, IDA, RCM, JPA, JRF, VCCI, KC, RoHS	7	5,000	35,000	Local wireless connectivity for Room 101, 102, 103, 201a, 201b, 202, 203
Network Attached Storage, 8 Bay, AMD Ryzen V1500B CPU • CPU Model AMD Ryzen V1500B • CPU Frequency 4-core 2.2 GHz • System Memory 4 GB DDR4 ECC SODIMM • Maximum Memory Capacity 32 GB (16 GB x 2) • Drive Bays 8 • Hot Swappable Drive: yes • RJ-45 1GbE LAN Port 4 (with Link Aggregation / Failover support) • File system: Btrfs, EXT4 • Certification: FCC, CE, BSMI, EAC, CCC, KC, VCCI, RCM	1	70,000	70,000	Storage cluster for Laboratory

Aircon, Window Type, 2HP, Non-inverter • Cooling Capacity: 2.0 HP or 19,100 kJ/h • Power Input: W 1,680 • EER: kJ/hW: 11.4 • Noise Level Indoor (Low): dB A 48 • Power Source V/Phase Hz 230 V, 1Ø Phase - 60 Hz • Refrigerant R32 • Non-inverter, Two (2) Fan Speed • Automatic Condensate removal • 4-way air deflection system • Slide out chassis • Removable, washable intake grille • Easy to clean air filter	2	40,000	80,000	Replacement of unserviceable Aircon unit on laboratory rooms
Cable Duct, Slotted PVC, 40mm x 40mm	16	600	9,600	Cable management for Laboratory rooms
Cable Duct, Slotted PVC, 60mm x 60mm	5	750	3750	Cable management for Laboratory rooms
Cable Duct, Slotted PVC, 25x40mm	15	450	6,750	Cable management for Laboratory rooms
LED Tube with housing (T8), 18 watts, 4ft (Daylight)	50	500	25,000	Replacement of busted lights on laboratory rooms
Tox, 1" box of 50	130	5	650	Cable management for Laboratory rooms
Tapping Screw Black 1" box of 50	50	5	250	Cable management for Laboratory rooms
Total			1,307,000	

Hoping for your favorable response regarding this matter.

Respectfully yours,

MAGDALENE C. UNAJAN
Head, DCST

Noted by:

JANNET C. BENCURE
Dean, CET

Recommend Approval (1st priority acquisition)
/sgd.
BEATRIZ S. BELONIAS
VPAA
Funds available : changed to
₱ 581,740 fund 2023
access to STF CO-PY 2021 ICT
if more than 50K
& less than 50K to STF-MOOE F2F
- grp your PR accdg to amt.