

Republic of the Philippines TARLAC STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

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July 13, 2023

SUPPLEMENTAL BID BULLETIN No. 1

Project: Supply and Delivery of IT Equipment (APP 2023)

This Bid Bulletin No. 1 is issued to clarify items and shall be an integral part of Bidding Documents.

Please be informed of the modification in the bidding documents.

POSTED TO PHILGEPS		MODIFICATION	
Section VII. Technical Specifications		Section VII. Technical Specifications	
Item No.	Description	Item No.	Description
2.	PRINTER, MULTIFUNCTION INKJET A3 WI-FI DUPLEX COLORED Print Method Precision Core Printhead Minimum Ink Droplet Volume 2.8 pl Control Panel 4.3 "TFT Color LCD Print Direction Bi-directional printing, Uni-directional printing Nozzle Configuration 400 x 2 nozzles Black, 128 x 2 nozzles per color (Cyan, Magenta, Yellow) Maximum Resolution 4,800 x 2,400 dpi (with Variable-Sized Droplet Technology) Print Speed Draft, A4 (Black / Color): Up to 32 ppm / 20 ppm Copy Speed ISO 29183, A4, Simplex (Black / Color): Up to 16 ipm / 8.8 ipm Scanner Type Flatbed color image scanner Sensor Type CIS Optical Resolution 1200 x 2400 dpi Paper Feed Method Friction feed Connectivity "USB: Hi-Speed USB 2.0 Network: Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct" Dimensions (+/- 10%) (W x D x H): 666 x 486 x 418 mm Warranty 1 year warranty	2.	WIDE FORMAT ALL-IN-ONE PRINTER Functions / Multitasking supported: Print, copy, scan, fax / Yes Print resolution: Black (best): Up to 1200 x 1200 rendered dpi;; Color (best): Up to 4800 by 1200 Print technology: Thermal Inkjet, Optical Thermal Inkjet Print cartridges number: 4 (1 each black, cyan, magenta, yellow) Borderless printing: Yes (up to A3/11 x 17-in) Color scanning: Yes Scan type / Technology: Flatbed, ADF / Contact Image Sensor (CIS) Scan resolution: Hardware: Up to 1200 x 1200 dpi; Optical: Up to 1200 dpi Scan Size: ADF: Two-sided (Duplex): 8.27 x 11.69 in; One-sided: 8.5 x 14 in Maximum; Flatbed: 11.69 x 17 in Copy speed: Black (ISO): Up to 18 cpm;; Color (ISO): Up to 13 cpm;; Black (draft): Up to 33 cpm;; Color (draft): Up to 31 cpm Copy resolution: Black (text and graphics): Up to 600 dpi; Up to 600 dpi; Color (text and graphics): Up to 600dpi Warranty: 4 Year Care Pack Business Priority Support with Onsite Exchange

3. COMPUTER, DESKTOP FOR CAD LABORATORY,

Processor : Intel® Core™ i9 (8 Core, 16 threads 16MB Cache, 5.0Ghz, 5 Ghz Turbo

OS: Pre-loaded OEM Windows 11
Pro 64bit English (Genuine Microsoft
OS Media Kit CD Included) Memory:
16 GB, 2x8 GB, DDR4-2666 MHz,
ECC/Non-ECCSDRAM Storage:
512GB NVMe Class 35 Solid State
Drive Video Card: Cores " 6144,
Boost Clock 1.77Ghz, Base Clock
1.58Ghz, Standard Memory Config:
8GB GDDR6X, Memory Interface
Width: 256-bit

Ports: 4 USB 2.0 Type A (2 Front / 2 Rear)

5 USB 3.1 Type A (5Gb) (1 Front / 4 Rear)

1 Front USB 3.1 Type C[™] (10Gb), data only

1 Front Universal Audio Jack 1 Front Internal SD Card reader (Optional) 2 Rear PS2

2 Rear Display Port 1 Rear Optional Port (VGA, HMDI 2.0, DP++ 1.2, Type C™ w/DP-Alt mode)

1 Rear RJ45 Network Connector 1
Rear Serial 1 Rear Audio Line out
Display: at least 21.5" Wide Screen
Monitor with LED Back Light; Display
Interface: Display Port (same brand
as system unit and compatible to the
unit's display output port)

Peripherals: Keyboard, Optical scroll mouse (must be same brand with system unit) Form Factor: Small

Form Factor UPS: Output Power Capacity:800W / 1.1kVA, Nominal Output Voltage: 230V, Nominal Input Voltage: 230V, Battery type:

Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof, Replacement Battery: Battery Compatible to the unit, Expected Battery Life (years): 2 - 4,

Surge Rating: 270+ Joules RoHS
Compliant, Height: 21.5 cm x Width:
13 cm x Depth: 33.6 cm, Warranty: 2
years, w/ 5 years on-site repair /
warranty on all labor and parts by an

authorized technical support.

3. DESKTOP COMPUTER FOR CAD LABORATORY

Processor: Intel core i7 12th gen or latest equivalent

OS: Genuine / Original Windows 11
Pro 64bit English (Original OS
Recovery USB Kit by the Manufacturer
Included)

Memory: 16 GB, 2x8 GB, DDR4-2666 MHz, ECC/Non-ECCSDRAM Storage: 512GB NVMe Solid State

Video Card: Cores " 6144, Boost Clock 1.77Ghz, Base Clock 1.58Ghz, Standard Memory Config: 8GB GDDR6X, Memory Interface Width: 256-bit Ports:

4 USB 2.0 Type A (2 Front / 2 Rear) 5 USB 3.1 Type A (5Gb) (1 Front / 4

1 Front USB 3.1 Type C[™] (10Gb), data only

1 Front Universal Audio Jack
1 Front Internal SD Card reader

1 Front Internal SD Card reader (Optional)

2 Rear PS2

2 Rear Display Port

1 Rear Optional Port (VGA, HMDI 2.0, DP++ 1.2, Type C™ w/DP-Alt mode)
1 Rear RJ45 Network Connector

1 Rear RJ45 Network Connector
1 Rear Serial 1 Rear Audio Line out

Display: atleast 21" IPS Display, 1920x1080 Resolution (same brand as system unit and compatible to the unit's display output port)

Peripherals: Keyboard, Optical scroll mouse (must be same brand with system unit) Form Factor: Small Form Factor

Warranty: w/ 5 years on-site repair / warranty on all labor and parts by an authorized technical support on desktop computer set.

Uninterrupted Power Supply
Rated power in W: 650 W
Rated power in VA: 1200 VA
Input Connection Type: IEC 60320

C14

Output connection : 4 x universal, 1 x IEC 60320 C13

Battery type : Lead-acid battery

Mounting support Floor Network frequency 50/60 Hz +/- 5 Hz auto-sensing

Input voltage limits 140 to 300 V 230 V AC

Output frequency 50/60 Hz +/- 1 Hz. sync to mains

UPS type Line interactive

Wave type: Stepped approximation to a-sinewave IP degree of protection: IP20 Battery voltage: 12 V Battery capacity 9.0 Ah Battery life 2 to 3 year(s) Surge energy rate 273: J Mercury free : Yes Warranty: 2 years Local Supplier Warranty on UPS 4. DESKTOP FOR LABORATORY. DESKTOP COMPUTER FOR Processor: Intel i5 11th Generation **LABORATORY** or latest Equivalent OS: Pre-loaded Genuine Windows 11 Pro 64bit Processor: Intel i5 12th Generation Memory: 16 GB, 2x8 GB, DDR4, or latest Equivalent 2666 MHz OS: Genuine / Original Windows 11 Storage: 512GB Solid State Drive + Pro 64bit English (Original OS 1TB HDD Recovery USB Kit by the Manufacturer Video Card: at lest with 6GB of Video Included) Memory, 192-bit interface width Memory: 16 GB, 2x8 GB, DDR4, 2666 Ports: at least 1 RJ-45 port 10/100/1000 Mbps (rear) at least 6 Storage: 512GB NVME Solid State USB Ports (USB 2.0/3.0) Ports (front Drive and rear) Video Card: at least with 6GB of Video 1 Universal Audio Jack (front) 1 Line-Memory, 192-bit interface width out re-tasking Line-in audio port Ports:at least 1 RJ-45 port 10/100/1000 (rear) with Display Output ports (rear) Mbps (rear) at least 6 USB Ports (USB 2.0/3.0) Display: at least 24" Wide Screen IPS Monitor; Display Interface: Ports (front and rear) Display Port (same brand as system 1 Universal Audio Jack (front) unit and compatible to the unit's 1 Line-out re-tasking Line-in audio port primary display output port) (rear) with Display Output ports (rear) Peripherals: Keyboard, Optical scroll Display: atleast 21" IPS Display, mouse (must be same brand with system unit) Warranty, w/ 5 years 1920x1080 Resolution (same brand as next business day on-site repair / system unit and compatible to the unit's warranty on all labor and parts by an primary display output port) authorized technical support. UPS Peripherals: Keyboard, Optical scroll Line Interactive UPS Interface LED mouse (must be same brand with On / Off button IEC C14 (Input cord system unit) Warranty: w/ 5 years next business is provided) Data Line Protection (4) Universal day on-site repair / warranty on all labor and parts by an authorized inoutlets Rating (VA/W): 1200VA/600W country / local technical support on Format: Tower desktop computer set. Technology: Line interactive Input **Uninterrupted Power Supply** voltage ranges without using batteries: 160V - 290V Output voltage: 230V Output Rated power in W: 650 W frequency: Auto sensing, 50Hz Rated power in VA: 1200 VA default Data line surge protection Input Connection Type: IEC 60320 (internet/tel/fax): Yes Input: IEC C14 C14 (Input cord IEC C13 - BS1363 is Output connection: 4 x universal, 1 provided) x IEC 60320 C13 Outputs: (4) Universal Outlets Battery type: Lead-acid battery Communication Ports: USB **Mounting support Floor** Warranty: 2 years Local Supplier Network frequency 50/60 Hz +/- 5 Hz auto-sensing Warranty Input voltage limits 140 to 300 V 230 V AC

Output frequency 50/60 Hz +/- 1 Hz sync to mains **UPS type Line interactive** Wave type: Stepped approximation to a sinewave IP degree of protection: IP20 Battery voltage: 12 V Battery capacity 9.0 Ah Battery life 2 to 3 year(s) Surge energy rate 273: J Mercury free: Yes Warranty: 2 years Local Supplier Warranty on UPS DESKTOP, COMPUTER HIGH 5. HIGH PERFORMANCE DESKTOP 5. **PERFORMANCE** Processor: Intel Core i7 12th Processor: Intel® Core™ i7 12th Generation Generation; Memory: 16GB 2x8GB Memory: 16GB 2x8GB DDR4 Memory DDR4 Memory: Storage: 1 TB NVME SSD Storage: 1 TB SSD; Graphics: Graphics: Dedicated Graphics Card. Dedicated Graphics Card, Boost Boost Clock: at least 1,785 Mhz, Clock: at least 1,785 Mhz, Standard Standard Memory Config: 6GB Memory Config: 6GB GDDR6. GDDR6, Memory Interface Width 192-Memory Interface Width 192-bit; OS: Windows 11 Pro 64-bit; OS: Genuine / Original Windows 11 Pro Connectivity: Front: 1 usb 2.0 port 64bit English (Original OS Recovery with PowerShare, 1 USB 2.0 port, 1 **USB** Kit by the Manufacturer Included) USB 3.2 Gen 2x2 Type-C® port, 1 Connectivity: Front: 1 usb 2.0 port with PowerShare, 1 USB 2.0 port, 1 USB 3.2 universal audio Jack Rear: 3 USB Gen 2x2 Type-C® port, 1 universal 3.2 Gen 1 ports, 1 USB 3.2 Gen 2 port, 2 USB 2.0 ports with smart audio Jack Power On 3 DisplayPort 1.4 Ports 1 Rear: 3 USB 3.2 Gen 1 ports, 1 USB 3.2 re-tasking line-out/line-in audio port 1 Gen 2 port, 2 USB 2.0 ports with smart RJ45 Ethernet port; WIFI Power On 3 DisplayPort 1.4 Ports 1 re-Connectivity - Yes built-in WiFi Card; tasking line-out/line-in audio port 1 **RJ45** Ethernet port Display - at least 24" Wide Screen IPS monitor, 1920 x 1080 resolution. WiFI Connectivity - Yes built-in WiFi **Display Position Adjustments:** Card Display - atleast 24" Wide Screen IPS Height-adjustable stand (130MM), monitor, 1920 x 1080 resolution, Tilt (-5° to 21°), Swivel (-45° to 45°), Pivot (-90° to 90°); Display Display Position Adjusments: Height-Interface: Display Port (same brand adjustable stand (130MM), Tilt (-5° to as system unit and compatible to the 21°), Swivel (-45° to 45°), Pivot (-90° to unit's primary display output port); 90°)(same brand as system unit and Peripherals - Keyboard, Optical scroll compatible to the unit's primary display mouse (must be same brand with output port) system unit); Warranty: with 5 years Peripherals - Keyboard, Optical scroll on-site repair/ warranty on all labor mouse (must be same brand with and parts by an authorized technical system unit) Warranty: w/ 5 years next business support; UPS - rating: 1200VA /600 Watts, output voltage: 230V, output day on-site repair / warranty on all frequency auto sensing, 50 Hz labor and parts by an authorized in-Default Warranty: at least 2 years country / local technical support on local supplier warranty desktop computer set. **Uninterrupted Power Supply** Rated power in W: 650 W Rated power in VA: 1200 VA Input Connection Type: IEC 60320 C14 Output connection: 4 x universal, 1

x IEC 60320 C13

			Battery type: Lead-acid battery Mounting support Floor Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive Wave type: Stepped approximation to a sinewave IP degree of protection: IP20 Battery voltage: 12 V Battery capacity 9.0 Ah Battery life 2 to 3 year(s) Surge energy rate 273: J Mercury free: Yes Warranty: 2 years Local Supplier Warranty on UPS
6.	COMPUTER, LAPTOP HIGH PERFORMANCE, Processor - M1 Max chip with 10-core CPU, 32-core GPU, and 16-core Neural Engine Memory - 64GB unified memory Storage - 1TB SSD storage Graphics - 32-core GPU, and 16-core Neural Engine * Operating System - MacOS Connectivity - Two thunderbolt / USB 4 ports with support for: - Charging - Display port - Thunderbolt 3 (up to 40Gbps) - USB 4 (up to 40Gbps) - USB 3.1 Gen 2 (up to 10 Gbps) WIFI Connectivity - 802.11ax WIFI 6 wireless networking IEEE 802.11 a/b/g/n/ac compatible Bluetooth 5.0 wireless technology Display- Liquid Retina XDR display - 14.2-inch (diagonal) Liquid Retina XDR display 1 3024-by-1964 native, resolution at 254 pixels per inch * Camera - 1080p FaceTime HD camera, Advance image signal processor with computational video * Peripherals - Wireless Rechargeable magic mouse, Carrying bag Warranty - with protection plan 3 years, repair or replacement coverage, both parts and labor, from authorized technicians or service centers	6.	HIGH PERFORMANCE LAPTOP Processor - latest chip with 8-core CPU, 10-core GPU, and 16-core Neural Engine Memory - 16GB unified memory * Storage - 256GB SSD storage * Graphics - 32-core GPU, and 16-core Neural Engine * Operating System - MacOS * Connectivity - Two thunderbolt / USB 4 ports with support for: - Charging - Display port - Thunderbolt 3 (up to 40Gbps) - USB 4 (up to 40Gbps) - USB 3.1 Gen 2 (up to 10 Gbps) WiFi Connectivity - 802.11ax WiFi 6 wireless networking IEEE 802.11 a/b/g/n/ac compatible Bluetooth 5:0 wireless technology * Display- Retina Display, 13.3-inch (diagonal) LED-backlit display with IPS technology; 2560-by-1600 native resolution at 227 pixels per inch with support for millions of colors * Camera - 720p FaceTime HD camera Advanced image signal processor with computational video * Peripherals - Wireless Rechargeable magic mouse, Carrying bag * Warranty - with protection plan 3 years, repair or replacement coverage, both parts and labour, from authorized technicians or service centers

11. COMPUTER, DESKTOP FOR OFFICE

Processor: Intel i5 10th Gen or latest equivalent

OS: Pre-loaded OEM Windows 11
Pro 64bit English (Genuine Microsoft
OS Media Kit CD Included, DVD or
Flash drive from OEM, or document
proof of OS genuity) Memory: 8 GB,
2X4GB DDR4, 2666 MHz, ECC/NonECCSDRAM

Storage: 512GB SSD Graphics: Integrated Graphics Ports: at least 1 RJ-45 port 10/100/1000 Mbps (rear) at least 6 USB Ports (USB 2.0/3.0) Ports (front and rear) 1 Universal Audio Jack (front) 1 Line-out retasking Line-in audio port (rear) with Display Output ports (rear) Display: at least 21.5" Wide Screen Monitor with LED Back Light; Display Interface: Display Port; (same brand as system unit and compatible to the unit's primary display output port) Peripherals: Keyboard, Optical scroll mouse (must be same brand with system unit) Form Factor: Small Form Factor

Warranty: w/ 5 years next business day on-site repair / warranty on all labor and parts by an authorized technical support. UPS Line Interactive UPS With Automatic Voltage Regulation (AVR), UPS can ride through under & over voltage without utilizing battery Rely on batteries anytime: UPS can start up on batteries without mains (Cold Start) UPS is equipped with data line surge protection (internet/fax) to avoid back door damages coming through phone lines

Ease of connection to any equipment (PC, HD TV, internet gateway) with universal outlets Interface

LED

On / Off button

IEC C14 (Input cord is provided)

Data Line Protection (4) Universal outlets

Rating (VA/W): 650VA/360W

Format: Tower

Technology: Line interactive Input voltage ranges without using

batteries : 160V - 290V Output voltage : 230V

Output frequency: Auto sensing,

50Hz default

Data line surge protection (internet/tel/fax): Yes

Input: IEC C14 (Input cord IEC C13 -

BS1363 is provided)

OFFICE COMPUTER

Processor: Intel i5 12th Gen or latest equivalent

OS: Genuine / Original Windows 11 Pro 64bit English (Original OS Recovery USB Kit by the Manufacturer Included) Memory: 8 GB, 2X4GB DDR4, 2666

MHz, ECC/Non-ECCSDRAM Storage: 512GB NVME SSD Graphics: Integrated Graphics

Ports: at least 1 RJ-45 port 10/100/1000

Mbps (rear)

at least 6 USB Ports (USB 2.0/3.0) Ports (front and rear)

1 Universal Audio Jack (front)

1 Line-out re-tasking Line-in audio port (rear)

with Display Output ports (rear)

Display: atleast 24" Wide Screen Monitor with LED Back Light (same brand as system unit and compatible to the unit's primary display output port) Peripherals: Keyboard, Optical scroll mouse (must be same brand with system unit)

Form Factor: Small Form Factor Warranty: w/ 5 years next business day on-site repair / warranty on all labor and parts by an authorized incountry / local technical support on desktop computer set.

Uninterrupted Power Supply Rated power in W : 650 W Rated power in VA : 1200 VA

Input Connection Type : IEC 60320 C14

Output connection: 4 x universal, 1

x IEC 60320 C13

Battery type: Lead-acid battery

Mounting support Floor

Network frequency 50/60 Hz +/- 5 Hz auto-sensing

Input voltage limits 140 to 300 V 230 V AC

Output frequency 50/60 Hz +/- 1 Hz sync to mains

UPS type Line interactive

Wave type: Stepped approximation

to a sinewave

IP degree of protection: IP20
Battery voltage: 12 V
Battery capacity 9.0 Ah

Battery life 2 to 3 year(s) Surge energy rate 273 : J Mercury free : Yes

Warranty: 2 years Local Supplier

Warranty on UPS

	Outputs: (4) Universal Outlets Communication Ports: USB Warranty: 2 years Local Supplier Warranty w/ 1 unit of universal socket adapter		
12.	COMPUTER, LAPTOP FOR OFFICE Processor - 8-core CPU with 4 performance cores and 4 efficiency cores, Memory - 8GB unified memory Storage - 256 SSD Graphics - 8-core GPU, and 16-core Neural Engine Operating OS - MacOS Connectivity - Two Thunderbolt / USB 4 ports with Support for: * Charging * Display port * Thunderbolt 3 (up to 40 Gbps) * USB 4 (up to 40 Gbps) * USB 3.1 Gen 2 (up to 10 Gbps) Wireless Connectivity - 802.11 ax WIFI 6 Wireless networking, IEEE 802.11 a/b/g/n/ac compatible Bluetooth 5.0 wireless technology Display - 13.3 - inch (diagonal) LED-backlit display with IPS technology; 2560-by-1600 native resolution at 227 pixels per inch with Supported scaled resolutions: 1680 by 1050, 1440 by 900, 1024 by 640 500 nits brightness Wide color (P3) True Tone Technology Camera - 720p FaceTime HD Camera Peripherals - Carrying bag Warranty - with protection plan for 3 years, repair or replacement coverage both parts and labor, from authorized technicians or service centers	12.	Processor: AMD Ryzen 7 or latest equivalent Memory: 8GB DDR4 Graphics: Built-in Graphics Storage: 512GB SSD OS: Windows 11 Pro 64-bit, Genuine Display: 15.6-inch Display. 1920x1080 Resolution Peripherals: Carrying Bag Warranty: 3 years on-site repair / warranty on all labor and parts by an authorized technical support.

DR. MURPHY P. MOHAMMED
Chairperson

A. Divisors

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