



May 17, 2023

BID BULLETIN No. 1

Project: Supply and Delivery of IT Tools (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
11	Fiber Optic (ODF/Patch Panel), 24 ports with wirings, rack mounted 1 year warranty	11	Fiber Optic (ODF/Patch Panel), Ports : 24 Ports with Wirings Sliding Type : Yes Rack Mounted : Yes Adaptor : SC-UPC Splice Box : Yes Warranty : 1 year warranty
14	Gigabit Switch - 16 Port Unmanaged Rackmount, Number of Ports : 16 x10/100/1000 Mbps ports Standards : • IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Quality of Service (QoS) • IEEE 802.3x Flow Control supported for full-duplex • Auto-negotiation • IEEE 802.3az Energy-Efficient Ethernet (EEE) Data Transfer Rates : • Ethernet: 10 Mbps/20 Mbps (half- duplex/full-duplex) Fast Ethernet: 100 Mbps/200 Mbps (half-duplex/full- duplex) • Gigabit Ethernet: 2000 Mbps (full- duplex) Features : Power saving by link status and cable length Security : Storm Control QoS (Quality of Service) : 802.1p priority, 8 queues Cable Diagnostics: Indicated through port LEDs	14	Gigabit Switch - 16 Port Unmanaged Rackmount, Device Interfaces : 16 x 10/100/1000 Mbps LAN ports Standards : IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.3x Flow Control • Support Layer 2 OSI Model Switching Capacity : 32Gbps Advanced Features : Auto-MDI/MDIX crossover for all ports • Secure store-and-forward switching scheme • Full/half-duplex for Ethernet/Fast Ethernet speeds • Supports 9,216 bytes jumbo frames • Back pressure at half-duplex operation • Wire-speed reception and transmission • Auto-negotiation for each port Data Transfer Rates : Ethernet: • 10 Mbps (half-duplex) • 20 Mbps (full-duplex) • Fast Ethernet: • 100 Mbps (half-duplex) • 200 Mbps (full-duplex) • Gigabit Ethernet • 2000 Mbps (full-duplex)

	<p>Protocol : CSMA/CD Switching Capacity : 32 Gbps Max. Forwarding Rate : 23.81 mpps Packet Buffer RAM : 512 KBytes per device Filtering Address Table : 8K MAC addresses per device Packet Filtering/Forwarding Rate : Ethernet: 14,880 pps per port, Fast Ethernet: 148,800 pps per port, Gigabit Ethernet: 1,488,000 pps per port MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward Indicator LEDs : Power LED (per device), Link/Activity/Speed LEDs (per port) DIP Switch : Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control 1-year warranty</p>		<p>Transmission Method : Store-and-forward LED Indicators : • 16*Link/Act indicator, 1*Power Indicator Media Interface Exchange : Auto-MDI/MDIX adjustment for all ports Warranty : 1 year local supplier warranty</p>
15	<p>Gigabit Switch - 24 Port Unmanaged Rackmount, Number of Ports : 24 x10/100/1000 Mbps ports Standards : • IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Quality of Service (QoS) • IEEE 802.3x Flow Control supported for full-duplex • Auto-negotiation • IEEE 802.3az Energy-Efficient Ethernet (EEE) Data Transfer Rates : • Ethernet: 10 Mbps/20 Mbps (half-duplex/full-duplex) • Fast Ethernet: 100 Mbps/200 Mbps (half-duplex/full-duplex) • Gigabit Ethernet: 2000 Mbps (full-duplex) Features : Power saving by link status and cable length Security : Storm Control QoS (Quality of Service) : 802.1p priority, 8 queues Cable Diagnostics: Indicated through port LEDs Protocol : CSMA/CD Switching Capacity : 48 Gbps Max. Forwarding Rate : 35.71 mpps Packet Buffer RAM : 512 KBytes per device Filtering Address Table : 8K MAC addresses per device Packet Filtering/Forwarding Rate : Ethernet: 14,880 pps per port, Fast Ethernet: 148,800 pps per port,</p>	15	<p>Gigabit Switch - 24 Port Unmanaged Rackmount, Device Interfaces : 24 x 10/100/1000 Mbps LAN ports Standards : IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.3x Flow Control • Support Layer 2 OSI Model Switching Capacity : 48Gbps Advanced Features : Auto-MDI/MDIX crossover for all ports • Secure store-and-forward switching scheme • Full/half-duplex for Ethernet/Fast Ethernet speeds • Supports 9,216 bytes jumbo frames • Back pressure at half-duplex operation • Wire-speed reception and transmission • Auto-negotiation for each port Data Transfer Rates : Ethernet: • 10 Mbps (half-duplex) • 20 Mbps (full-duplex) • Fast Ethernet: • 100 Mbps (half-duplex) • 200 Mbps (full-duplex) • Gigabit Ethernet • 2000 Mbps (full-duplex) Transmission Method : Store-and-forward LED Indicators : • 24*Link/Act indicator, 1*Power Indicator Media Interface Exchange : Auto-MDI/MDIX adjustment for all ports Warranty : 1 year local supplier warranty</p>

	<p>Gigabit Ethernet: 1,488,000 pps per port MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward Indicator LEDs : Power LED (per device), Link/Activity/Speed LEDs (per port) DIP Switch : Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control 1-year warranty</p>		
18	<p>HDMI Cable, 1.5 meter Projection Technology: RGB liquid crystal shutter projection system Brightness: White Light Output (Normal/Eco): 3,600lm / 2,235lm Colour Light Output: 3,600lm USB Interface: 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) Analog Input: D-Sub 15pin: 1 (Blue molding) Composite: RCA x 1 (Yellow) Digital Input: 2 (1 supports MHL) Audio Input: 2 RCA (White / Red): 1 Wireless: in-built Contrast Ratio: 15,000:1 Screen Size (Projected Distance): Standard Size: 60" screen 1.8 - 2.17 m Zoom : Wide: 30" - 300" [0.87 - 9.02 m] Zoom : Tele: 30" - 300" [1.07 - 10.98m] Geometric Correction: Vertical/Horizontal Keystone: $\pm 30^\circ$ / $\pm 30^\circ$ Auto Keystone: Yes (Vertical only) Horizontal Slide Keystone Correction: Yes Quick Corner: Yes Sound Output: 2W Mono Wireless LAN Security: WPA2-PSK(AES) Supported Connection Mode: Wi-Fi Direct LCD: Size: 0.67" (D10) Native Resolution: WUXGA at least 1 year warranty"</p>	18	<p>HDMI Cable, 1.5 meter Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60 Hz – 1080vP 60 Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 1.5 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG" Warranty at least 1 year warranty</p>
19	<p>HDMI Cable (10 meters), Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60 Hz – 1080vP 60 Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 15 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG" Warranty at least 1 year warranty</p>	19	<p>HDMI Cable (10 meters), Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60 Hz – 1080vP 60 Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 10 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG" Warranty at least 1 year warranty</p>

20	<p>HDMI Cable (5 meters), Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 15 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30 AWG at least 1 year warranty</p>	<p>20 HDMI Cable (5 meters), Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60 Hz – 1080vP 60 Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 5 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG" Warranty at least 1 year warranty</p>
29	<p>Network Attached Storage with 4 TB HDD, with 4TB Hard Drive</p>	<p>29 Network Attached Storage with 4 TB HDD, CPU Quantity : 1 CPU Architecture: 64-bit CPU Frequency : 4-core 1.7 GHz Hardware Encryption Engine : Yes System Memory : 2 GB DDR4 non-ECC Drive Bays : 2 Compatible Drive Type : 3.5" SATA HDD, 2.5" SATA SSD Hot Swappable Drive : Yes RJ-45 1GbE LAN Port : 1 USB 3.2 Gen 1 Port : 3 USB / SD Copy : Yes Internal Drives: Btrfs, EXT4 External Drives : Btrfs, EXT4, EXT3, FAT, NTFS, HFS+, exFAT Warranty : Extended 4 years warranty</p> <p>NAS Hard Disk Capacity : 4TB Form Factor : 3.5" inch Rotational speed (RPM) : 5,400 RPM Interface : SATA 6Gb/s Warranty : 2 Years Local Supplier Warranty</p>
35	<p>Projector W/ Presenter Bundle, Projection Technology RGB liquid crystal shutter projection system White Light Output (Normal/Eco): 3,300lm / 2,050lm Colour Light Output: 3,300lm LCD "Size: 0.55" (D7) Native Resolution: SVGA" Lamp "Type: 210W UHE Life (Normal / Eco)*1: 6,000 hours / 10,000 hours" Connectivity "USB Interface: USB Type A: 1 (for USB Memory, USB Document Camera, for Wireless LAN Unit, Firmware Update) USB Type B: 1 (for USB Display, Mouse, K/B, Control, Firmware Update) Analog Input: D-Sub 15pin: 1 (Blue molding) Composite: RCA x 1 (Yellow)" Contrast Ratio 15,000:1 Screen Size "Standard Size: 60" screen 1.77 - 2.4 m</p>	<p>35 Projector W/ Presenter Bundle, Projection Technology: RGB liquid crystal shutter projection system (3LCD) Screen Size (Projected Distance): Standard Size: Tele: 30" to 300" [1.07 to 10.95 m] Wide: 30" to 300" [0.89 to 9.12 m] White Light Output (Normal/Eco): 3,800 lm Colour Light Output: 3,800 lm USB Interface: USB Type A: 1 (For Wireless LAN, Firmware Update, Copy OSD Settings) USB Type B: 1 (For Firmware Update, Copy OSD Settings) Analog Input: Composite: 1 RCA D-Sub 15pin: 1 Digital Input: HDMI: 1 (MHL not supported) Audio Input: 2 RCA: 1</p>

	<p>Zoom : Wide: 30" - 350" [0.88 - 10.44 m] Zoom : Tele: 23" - 260" [0.88 - 10.44 m]" Vertical/Horizontal Keystone ±30° / ±30° Auto Keystone Yes (Vertical only) Dimensions (+/- 10%) (W x H x D) 302 x 77 x 234 mm Inclusions Presenter & Tripod Screen Warranty: at least 1 year warranty Presenter Laser Class Class 2 Laser Max Output Less than 1mW Wireless technology 2.4 GHz wireless technology Battery type 2 AAA batteries Dimensions (+/- 10%) H x W x D: 37.8 mm x 115.5 mm x 27.4 mm at least 1 year warranty</p>		<p>LCD: Native Resolution: XGA (1024 x 768) Size: 0.55" (C2fine) Warranty : 1 year local supplier warranty Presenter Laser Class Class 2 Laser Max Output Less than 1mW Wireless technology 2.4 GHz wireless technology Battery type 2 AAA batteries Warranty: at least 1 year warranty</p>
37	<p>SINGLE FUNCTION LASER PRINTER, Print Speed Black Normal: Up to 22 ppm First Page Out Black: As fast as 7.3 sec Print Quality Black (Best) Up to 600 x 600 dpi, FastRes 1200 (1200 dpi quality) Duty Cycle (Monthly, A4) Up to 10,000 pages Print Technology Laser Processor Speed 600 MHz Connectivity, standard "1 Hi-Speed USB 2.0 Wireless" Paper handling input, standard 150-sheet input tray, 10-sheet priority tray Paper handling output, standard 100-sheet output tray Dimensions (+/- 10%) Maximum: 364.7 x 466.6 x 332.4 mm 1 year warranty</p>	37	<p>SINGLE FUNCTION LASER PRINTER, Print Speed Black Normal: Up to 20ppm First Page Out Black: As fast as 8.3 sec Print Quality Black (Best) Up to 1,200 x 1,200 dpi, Duty Cycle (Monthly, A4) Up to 10,000 pages Print Technology Laser Processor Speed 400 MHz Connectivity Standard: Hi-Speed USB 2.0, Wireless Paper handling input, standard 150-sheet input tray, 10-sheet priority tray Paper handling output, standard 100-sheet output Warranty : 1 year local supplier warranty</p>
38	<p>Smart Switch, Gigabit Stackable Smart Managed Switch with 10G Uplinks Switch</p>	38	<p>Smart Switch, Gigabit Stackable Smart Managed Switch with 10G Uplinks Switch Port Standards & Functions : IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation Number of Ports : 16 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+ Network Cables : UTP Cat. 5, Cat. 5e (100 m max.) EIA/TIA 568 100-ohm STP (100 m max.)</p>

			<p>Full/Half Duplex : Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed</p> <p>Media Interface Exchange : Auto or configurable MDI/MDIX</p> <p>Switching Capacity : 76Gbps</p> <p>Transmission Method : Store-and-forward</p> <p>Maximum 64 bytes Packet Forwarding Rate : 56.54 Mpps</p> <p>Diagnostic LEDs : Power/Stacking ID/Fan (per device),</p> <p>Link/Activity/Speed (per 10/100/1000 Mbps port), Link/Activity/Speed (per Gigabit SFP port), Link/Activity/Speed (per 10G SFP+ port)</p> <p>Warranty : 1 year local supplier warranty</p>
39	Splitter, HDMI Splitter	39	<p>Splitter, HDMI Splitter</p> <ul style="list-style-type: none"> • Ports: 5 • Interface Type: HDMI A Female, DC Power Port • Version: HDMI 1.4 • Interface Technology: Gold-plated • Resolution: 4K 30Hz • Transmission Direction: HDMI TO HDMI (INPUT To OUTPUT) • Shell Material: Aluminum Alloy + ABS • Power Supply: DC 5V 1A • Bandwidth: 10.2 Gbps <p>Features:</p> <ul style="list-style-type: none"> • 1 Splitter to 4 HDMI Outputs • 4k at 30 Hz Resolution • Aluminum Alloy Casing • Up to 30 Meters Transmission <p>Warranty : 1 year local supplier warranty</p>


DR. MURPHY P. MOHAMMED
Chairperson