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Tuesday, June 23, 2026 10:18 AM

Rowena PradoCHMSU

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Bid Supplement Abstract

Reference Number	13050951
Title	Procurement of Consolidated ICT Supplies and Equipment for the Four (4) Campuses
Category	Information Technology
Type	Addendum
Bid Supplement No.	13050951-01
Title	Procurement of Consolidated ICT Supplies and Equipment for the Four (4) Campuses
Area of Delivery/Location	Negros Occidental
Delivery Period/Contract Duration	45 Day/s
Contact Person	Rowena De la Vida Prado
Description	Please see attached Addendum No. 1, Revised BOQ, SOR, TS.

Note: Click the document name to view the attachment.

Document Name	Document Type	Content	Format
Addendum No. 1	Electronic	Supporting Documents	A4
Bill of Quantities	Electronic	Supporting Documents	A4
Schedule of Requirements	Electronic	Supporting Documents	A4
Technical Specifications	Electronic	Specifications	A4

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SUPPLEMENTAL/BID BULLETIN ADDENDUM NO. 1 13050951 / CHMSU 26-018-0610-G June 22, 2026

This Addendum No. 1 is issued for clarification of Bidders with regard to the specifications in the Bill of Quantities, Schedule of Requirements (Item No. 9 & Item No. 32) of the bidding documents for the **Procurement of Consolidated ICT Supplies and Equipment for the Four (4) Campuses per Reference Number 13050951 / CHMSU 26-018-0610-G**. This shall form an integral part of the Documents.

PARTICULARS (AS PUBLISHED)				MODIFICATION (SHOULD BE)			
BILL OF QUANTITIES				BILL OF QUANTITIES			
9	3	PCS	Extension Cord Set with Universal Outlet & Switch	9	3	PCS	Extension Cord Set with Universal Outlet & Switch
			Outlets: 4 Total - typically 3 convenience outlets + 1				Outlets: 4 Total - typically 3 convenience outlets + 1
			universal outlet (accepts various plug types)				universal outlet (accepts various plug types)
			Rated Power: 2,500 W maximum total load				Rated Power: 2,500 W maximum total load
			Rated Current: 10 A, Rated Voltage: 250 V				Rated Current: 10 A, Rated Voltage: 250 V
			Cord Length: 1.83 meters (approx. 6 feet)				Cord Length: 1.83 meters (approx. 6 feet)
			Switch: Master switch - controls all outlets				Switch: Master switch - controls all outlets
9	3	PCS	Extension Cord Set with Universal Outlet & Switch				Materials: - Rigid brass internal strips,
			Outlets: 4 Total - typically 3 convenience outlets + 1				- Copper outlet contacts for good grip and conductivity
			universal outlet (accepts various plug types)				Safety Features: - Real grounding system connection
			Rated Power: 2,500 W maximum total load				Built-in safety circuit breaker, - Built-in lightning protector
			Rated Current: 10 A, Rated Voltage: 250 V				(surge protection), - Fire-retardant enclosure material
			Cord Length: 1.83 meters (approx. 6 feet)				
			Switch: Master switch - controls all outlets				
			Materials: - Rigid brass internal strips,				
			- Copper outlet contacts for good grip and conductivity				
			Safety Features: - Real grounding system connection				
			Built-in safety circuit breaker, - Built-in lightning protector				
			(surge protection), - Fire-retardant enclosure material				
32	14	PCS	43" 4K LED TV	32	3	PCS	43" 4K LED TV



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SCHEDULE OF REQUIREMENTS

9	Extension Cord Set with Universal Outlet & Switch	3	3
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32	43" 4K LED TV	14	14
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TECHNICAL SPECIFICATIONS

9	Extension Cord Set with Universal Outlet & Switch
	Outlets: 4 Total - typically 3 convenience outlets + 1
	universal outlet (accepts various plug types)
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For guidance and information of all concerned.

For the BAC:


MA. RIZA T. MANALO, Ph.D.
BAC Chairperson 

Received by the Bidder: _____

_____ Date



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BIDS AND AWARDS COMMITTEE

Talisay City, Negros Occidental
Tel. Nos.: (034) 454-0529; 454-0584 Local 142
Mobile No.: 0920-5833046

Project Reference No: **CHMSU 26-018-0610-G**
Name of the Project: **PROCUREMENT OF CONSOLIDATED ICT SUPPLIES AND EQUIPMENT FOR THE FOUR (4) CAMPUSES**
Location of the Project: **FOUR (4) CAMPUSES**

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			LOT 1 - ICT SUPPLIES		
1	6	PCS	AVR 500VA PSL-500D W 3X220V, 1X110V Universal		
			CAPACITY: 500VA/300W		
			Input Voltage: 220/230/240Vac		
			Input Voltage Range: 220/230/240Vac: 172-276Vac		
			Input Frequency Range: 50 or 60 Hz		
			Output Steps of Regulation: 2 (1-step Boost & 1-step Buck)		
			Output Receptacles: Universal Nema*4pcs		
			Output Protection: Overload / short circuit: manual reset		
			circuit switch, Over-temperature: thermal switch		
			Indicators Regulating LED: Green		
			Environment Humidity: 0-95% (Non-condensing)		
			Noise Level: Less than 40dB at 1M		
			Dimension(W*H*D): 80*77*220MM		
2	2	PCS	Maintenance Box Chip Resetter		
			Compatible with Epson T04D1		
			Compatible with Epson T04D1		
			Function: Resets waste ink counter chip		
			Operation: Plug-in / press-to-reset		
			Power: Battery or USB (varies by model)		
			Use: Printer maintenance / servicing		
3	8	PCS	Printer Belt Encoder Strip		
			Compatible with Epson L3110		
			Material: Clear plastic with printed scale		
			Function: Carriage position sensing		
			Location: Inside printer, behind carriage rail		
			Importance: Ensures print alignment and accuracy		
4	10	BOT	Printer Cleaning Solution		
			Use: Print head, ink nozzle, ink tube cleaning		
			Compatible: Dye & pigment ink printers		
			Application: Manual cleaning / flushing		
			Purpose: Removes dried or clogged ink		
5	5	PCS	Printer Head Cable and Sensor		
			Compatible with Epson L120		
			Parts included:		
			Print head flat cable (FFC), Sensor (carriage / encoder sensor)		
			Function: Signal transmission & position detection		
			Use: Printer repair / replacement part		
			Material: Flexible ribbon cable + electronic sensor		

Signature of Bidder
Name of Firm
Date



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Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
6	5	PCS	Printer Head Cable and Sensor		
			Compatible with Epson L3110		
			Compatible models: Epson L3110		
			Parts included: Print head flat cable (FFC)		
			Sensor (carriage / encoder sensor)		
			Function: Signal transmission & position detection		
			Use: Printer repair / replacement part		
			Material: Flexible ribbon cable + electronic sensor		
7	20	PCS	USB Keyboard and Mouse Black		
			Keycaps: A-Shape, Round Edge		
			Hotkeys: 12 FN Multimedia Hotkeys		
			Character: Laser Engraving		
			Adjustable Keyboard Legs: Yes		
			Rating: 5 V / 30 Ma, Dimension: 454 × 153 × 32 mm		
			Weight: 585 g, Cable Length: 150 cm, Port: USB, Mouse: OP-720		
			Report Rate: 125 Hz, Sensor: Optical, Resolution: 1000 DPI		
			Rating: 5 V / 100 mA, Buttons No.: 3,		
			Ergonomic Design: Symmetric, Size: Middle / Big Hands		
			Dimension: 119 × 62 × 37 mm, Weight: 86 g		
			Cable Length: 150 cm, Port: USB		
			System Requirements: Windows XP/Vista/7/8/8.1/10/11		
			Features: FN Hot Keys, 5M Clicks Button Lifetime, 1000 DPI		
			Dust-resistant Wheel		
			Comfort Roundedge keycaps, Laser Inscribed keys		
			Adjustable keyboard height		
8	2	PCS	750 watts 80 Plus Bronze Power Supply		
			PART NO.: CP-9020237, AC INPUT: 100-240V		
			INPUT CURRENT: 10A-5A, FREQUENCY: 47~63Hz		
			TOTAL POWER: 750W		
9	3	PCS	Extension Cord Set with Universal		
			Outlet & Switch		
			Outlets: 4 Total - typically 3 convenience outlets + 1		
			universal outlet (accepts various plug types)		
			Rated Power: 2,500 W maximum total load		
			Rated Current: 10 A, Rated Voltage: 250 V		
			Cord Length: 1.83 meters (approx. 6 feet)		
			Switch: Master switch - controls all outlets		
			Materials: - Rigid brass internal strips,		
			- Copper outlet contacts for good grip and conductivity		
			Safety Features: - Real grounding system connection		
			Built-in safety circuit breaker, - Built-in lightning protector		
			(surge protection), - Fire-retardant enclosure material		

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Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
10	5	PCS	AVR 400-1000VA Single Phase 600W UPS		
			with AVR Uninterruptible Power Supply		
			General		
			Type: Line-Interactive UPS with AVR (Automatic Voltage		
			Regulation), Capacity: ~1000 VA / 600 W, Phase: Single-Phase AC		
			Form Factor: Tower style (upright design typical of		
			conventional UPS units), Weight & Size: About ~5.8 kg and		
			~95 × 320 × 160 mm, Weight & Size: About ~5.8 kg and		
			~95 × 320 × 160 mm, Input / Output		
			Input Voltage: Designed for 220 / 230 / 240 V AC		
			(50 / 60 Hz) single-phase grid inputs		
			Output Voltage: Regulated 220 / 230 / 240 V AC via AVR		
			and battery backup as needed		
			Automatic Voltage Regulation (AVR): Boost and buck to		
			correct high or low input voltages before switching to		
			battery, Sockets: Usually 4 × universal outlets to accommodate		
			different plug types, Battery,		
			Battery Type: Internal sealed lead-acid (typical for this class)		
			Battery Configuration: 1 × 12 V/9 Ah (common spec on		
			equivalent AID1000 models)		
			Charging: Fast charging with auto-charge even in OFF		
			mode, Cold Start: Can power on directly from battery in absence		
			of utility power, Indicators & Controls,		
			Front panel LED indicators for AC output (green), battery		
			status (yellow), and DC output (red)		
			Power On/Off button on front panel, Protection		
			Overload protection & short-circuit protection		
			Basic surge and undervoltage defense via AVR and in-built		
			control, Runtime		
			Offers several minutes of runtime depending on connected		
			load (e.g., around 7-8 minutes with ~180 W load) - actual		
			backup time varies by usage and battery condition.		
11	2	PCS	10 pcs screwdriver and precision screwdriver set		
			Basic Screwdrivers (6 pieces)		
			Used for general household tasks like furniture assembly,		
			appliances, etc., Slotted (Flathead) sizes - e.g., SL5×75mm,		
			SL5×100mm, SL6×150mm, Phillips sizes - e.g., PH1×75mm,		
			PH1×100mm, PH2×150mm, Precision Screwdrivers (4 small pieces)		
			Used for electronics, gadgets, eyeglasses, tiny screws.		
			Slotted - e.g., SL3 × 50 mm, Phillips - PH0 × 50 mm		

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Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			Torx - T6 & T8 × 50 mm,		
			Total: 10 pieces - 6 regular + 4 precision drivers.		
12	2	PCS	Crimping Tool		
			Electrical terminals: ring, spade, butt connectors		
			Networking cables: RJ45 (Ethernet), RJ11 (phone), RJ12		
			Modular plugs: crimping data connectors onto CAT5/6/7		
			cables		
			Some tools can crimp, cut, and strip wires in one tool.		
			Handheld plier-style: manual hydraulic, ratchet, or regular		
			Ratchet action: ensures full compression before release		
			Adjustable dies or multiple crimping positions		
			Insulated handles for safe electrical work (in some		
			models)		
13	2	PCS	HDD/SSD DOCKING STATION		
			Compatibility: 2.5" & 3.5" SATA HDD/SSD (SATA I/II/III).		
			Interface: USB 3.0 / USB 3.2 Gen 1 (up to 5 Gbps) - fast		
			transfers.		
			Clone Function: Some docks can copy drives without a PC		
			connected. Plug & Play: No drivers needed on most systems		
			(Windows, Mac, Linux).		
			Hot-Swappable: You can add/remove drives without		
			shutting down (varies by model).		
14	3	PCS	VGA TO HDMI		
			Direction: VGA input → HDMI output (unidirectional)		
			Video Support: Up to 1920×1080 (1080p) at 60 Hz on		
			most converters		
			Audio: Often includes a 3.5 mm stereo audio input to		
			embed audio into HDMI		
			Power: Many adapters are USB-powered if the VGA		
			source can't supply enough power for conversion		
			Compatibility: Works with older desktops/laptops with		
			VGA ports and HDTVs/Monitors with HDMI inputs		
15	6	PACKS	DOUBLE A BATTERY (AA)		
			Type: AA (Double-A)		
			Voltage: 1.5V (Alkaline) / 1.2V (Rechargeable)		
			Size: Approx. 50.5 mm length × 14.5 mm diameter		
			Capacity: Approx. 1,800–3,000 mAh (alkaline)		
			Chemical Type: Alkaline/Carbon Zinc/Ni-MH		
			(rechargeable)		
			Common Uses: Remote controls, toys, flashlights, radios,		

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Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			wireless mouse & keyboard		
16	6	PACKS	TRIPLE A BATTERY (AAA)		
			Voltage: 1.5V (Alkaline) / 1.2V (Rechargeable)		
			Size: Approx. 44.5 mm length × 10.5 mm diameter		
			Capacity: Approx. 800–1,200 mAh (alkaline)		
			Chemical Type: Alkaline/Carbon Zinc/Ni-MH		
			(rechargeable)		
			Common Uses: TV remotes, clocks, small LED lights,		
			wireless keyboard/mouse, calculators		
17	5	PCS	8GB DDR4 3200MHz RAM		
			Module Type: 288 Pin Unbuffered DIMM Non ECC		
			Capacity: 8GB, Frequency: 3200, Data Transfer: 25,600 MB/s		
			Bandwidth: (PC4 25600), Latency: CL22-22-22-52		
			Voltage: 1.2V		
18	3	PCS	USB Type-C to LAN Adapter		
			Operating System: Windows 11/10/8.1/8/7/XP, Mac OS,		
			iPad OS, Chrome OS, Linux		
			Data transfer rate: 1000 Megabits Per Second		
			Hardware interface: USB 3.1 Type C		
19	3	PCS	Male USB C to Female USB A Adapter, 1 m		
			• Male-to-female connector, • USB A-to-USB C connector		
			• Length of 1 m, • Black sheath color, • USB A type 3.0		
			• USB C type 3.1		
20	5	PCS	HDMI Male-to-Male Cable 10m		
			Supports 4K, 1080P full HD, 3D, Ethernet Channel,		
			48-bit Deep Color and Audio Return Channel (ARC),		
			audio video sync, HDCP compliant.		
			Widely compatible with Blu-ray player, computer,		
			AV receiver, Roku, PS 3/4. Xbox One/360,		
			Nintendo Wii, TV, HDTV, monitor, or projector.		
21	6	PCS	HDMI Male-to-Male Cable 5m		
			Supports 4K, 1080P full HD, 3D, Ethernet Channel,		
			48-bit Deep Color and Audio Return Channel (ARC),		
			audio video sync, HDCP compliant.		
			Widely compatible with Blu-ray player, computer,		
			AV receiver, Roku, PS 3/4. Xbox One/360,		
			Nintendo Wii, TV, HDTV, monitor, or projector.		
22	10	PCS	HDMI Male-to-Male Cable 15m		
			Supports 4K, 1080P full HD, 3D, Ethernet Channel,		
			48-bit Deep Color and Audio Return Channel (ARC),		

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Location of the Project: **FOUR (4) CAMPUSES**

BILL OF QUANTITIES

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Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			audio video sync, HDCP compliant.		
			Widely compatible with Blu-ray player, computer,		
			AV receiver, Roku, PS 3/4. Xbox One/360,		
			Nintendo Wii, TV, HDTV, monitor, or projector.		
23	2	PCS	Interphone Two-Way Radio Walkie Talkie (Black)		
			5W 16Ch 400-470MHz		
			Channel Capacity: 16, Channel Spacing: 25KHz		
			Operated Voltage: 3.7 V, Battery: 2800MAh Li-ion		
			Frequency Stability: 2.5ppm		
			Antenna Impedance : 50		
			Communication Range: in open area 1~3km. in		
			urban,300m~1km, Minimum of 1 year warranty		
24	1	PCS	M.2 NVMe SSD		
			Dual Bay Duplicator Material: Aluminum Alloy,		
			Size: 82.2mm(L)*62mm(W)*13.8mm(H),		
			Controller Solution: ASM2362+ASM2806A (10Gbps) ,		
			Transfer Rate: USB3.1 10Gbps,		
			Supported System: Mac OS, Windows, Linux, Android		
			Minimum of 1 year warranty		
25	4	BOXES	RJ45 (8P8C)		
			Number of Pins: 8		
			Cable Type: Twisted-pair copper (Cat5e / Cat6 / Cat6a),		
			10/100/1000 Mbps (up to 10 Gbps with Cat6a),		
			Transmission Medium: Ethernet (LAN)		
			Standard: IEEE 802.3,Termination: Crimp type		
			Shielding: UTP / STP (model dependent)		
26	2	PCS	Crimping Tool Pass Through		
			Supports RJ45 (Cat5, Cat5e, Cat6, Cat6a, Cat7)		
			and RJ11/RJ12 pass-through or standard modular plugs		
			Replaceable blade for the "crimp & trim" function;		
			also includes a cable jacket stripper and wire cutter		
			Ergonomic, non-slip grip.		
27	3	PCS	64GB USB Flash Drive		
			USB 3.2 Gen 1 (USB 3.0/USB 3.1 Gen 1 compatible)		
			Windows, macOS, Linux compatible, at least 5-year warranty		
28	4	PCS	All-in-One PC Power adapter 19v 65w 3.42A		
			Compatible with Acer Aspire C24-1851		
			Connector size: 5.5mm x 1.7mm		

Signature of Bidder
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Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			Terms and Conditions		
			• Warranty: Minimum of one (1) year warranty		
			• Delivery: Delivery shall be completed within		
			forty-five (45) calendar days upon receipt of		
			Purchase Order (PO) and/or Notice to Proceed (NTP)		
			• Green Initiative: Product must support energy-efficient or		
			environmentally friendly standards such as		
			Energy Star certification or equivalent, if applicable		
			• Condition: Item must be brand new, original,		
			and not refurbished		
			• Documentation: Supplier shall provide brochure, datasheet,		
			or manufacturer's specifications for verification of compliance		
			Sub-ABC = Php 147,888.00		
			LOT 2 - ICT EQUIPMENT		
29	5	PCS	PC Monitor 24"		
			Screen Size: 23.8 inches, Panel Type: IPS,		
			Resolution: 1920 x 1080 (Full HD), Refresh Rate: 100Hz		
			Backlight: WLED, Display Colors: 16.7M (8-bit), Aspect Ratio: 16:9		
			Contrast Ratio: 1000:1, Brightness: 230 cd/m², Color: Black		
30	4	PCS	LCD Projector		
			3LCD, 3-chip technology		
			Brightness: 3,200 lumens (normal), 2,240 lumens (eco)		
			Native Resolution: SVGA (800X600), 4:3 aspect ratio		
			Connectivity: HDMI, VGA, USB 2.0 Type A & B, Composite,		
			S-Video, Optional Wireless LAN		
			Contrast Ratio: 15,000:1		
			Lamp Life: 5,000 hours (normal), 10,000 hours (eco)		
			Keystone Correction: Auto Vertical, Manual Horizontal		
			Screen Size: 30" - 350", Minimum of 1 year warranty		
31	14	PCS	55" Smart TV 4K UHD		
			Ultra HD 3840×2160, CSPF Rating - 8.9, Power Input - 92 W		
			Power Consumption - 160 W		
			Standby Power Consumption - ≤ 0.5 W		
			Rated Power - AC 100- 240 V 50/60 Hz		
			Vivid motion 60Hz,		
			Dynamic contrast ratio 3,000,000:1, Aspect Ratio 16:9.		
32	3	PCS	43" 4K LED TV		
			Slim & Unibody Design, Metallic Finish Frame, 4K QLED Google TV		

Signature of Bidder _____
Name of Firm _____
Date _____



CARLOS HILADO MEMORIAL STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE

Talisay City, Negros Occidental
Tel. Nos.: (034) 454-0529; 454-0584 Local 142
Mobile No.: 0920-5833046

Project Reference No: **CHMSU 26-018-0610-G**
Name of the Project: **PROCUREMENT OF CONSOLIDATED ICT SUPPLIES AND EQUIPMENT FOR THE FOUR (4) CAMPUSES**
Location of the Project: **FOUR (4) CAMPUSES**

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			350 nits brightness (typ.), WCG up tp 93% DCI-P3		
			AIPQ Processor, HVA Screen (3x Contrast Enhancement)		
			MEMC 60Hz, 2.0CH 2*10W Speakers,		
			Game Bar / Game Mode / ALLM, Hands Free Voice ControlCPU:		
			Cortex A55*5 1.5Ghz, (normal) 1.9Ghz (DVFS),		
			GPU: G57 MC1, 800Mhz, Memory: 2GB + 16GB, Wi-Fi 5 (2.4G+5G)		
			Bluetooth 5.4		
			Terms and Conditions		
			• Warranty: Minimum of one (1) year warranty		
			• Delivery: Delivery shall be completed within		
			forty-five (45) calendar days upon receipt of Purchase Order (PO)		
			and/or Notice to Proceed (NTP)		
			• Green Initiative: Product must support energy-efficient or		
			environmentally friendly standards such as		
			Energy Star certification or equivalent, if applicable		
			• Condition: Item must be brand new, original,		
			and not refurbished		
			• Documentation: Supplier shall provide brochure, datasheet,		
			or manufacturer's specifications for verification of compliance		
			Sub-ABC = Php 579,000.00		
			LOT 3 - NETWORK SUPPLIES AND EQUIPMENT		
33	2	PAIRS	Optical Module Gigabit Single Mode		
			Single Core SFP 1.25G		
			Form Factor: SFP, Data Rate: 1.25 Gbps (Gigabit)		
			Fiber Type: Single-Mode (SMF)		
			Core: Single core (Bi-Directional / Simplex)		
			Connector: LC, Wavelength: 1310 nm / 1550 nm (used as a pair)		
			Transmission Distance: 10 km		
			(also available: 5 km / 20 km / 40 km / 80 km)		
			Port Type: LC simplex, Power Supply: 3.3 V		
			Hot-Pluggable: Yes, Standards: IEEE 802.3, SFP MSA		
			Operating Temperature: 0 °C to 70 °C		
			Compatibility: Cisco / Huawei / HP compatible, (model-dependent)		
34	4	PAIRS	SFP Dual Mode Module		
			These vary by module model but usually include:		
			Interface & Port Details		
			Dual-mode GE/SFP Ports - accept RJ-45 or pluggable SFP		

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Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			optics, Data Rate - typically 1 Gbps per port (can vary based on		
			module and optics), Module Format		
			Service modules like SM-X or EHWIC that fit specific		
			Cisco routers., Compatibility		
			Designed for Cisco ISR 4000 series and compatible		
			platforms with the appropriate module slot.		
			Environmental		
35	6	BOXES	CAT 6 LAN cable		
			Category: Cat 6 (Category 6)		
			Standard: Meets Cat 6 specifications for LAN cabling		
			(TIA/EIA etc.), Bandwidth: Up to 250 MHz		
			Data Speeds: Up to 1 Gbps at 100 m, and up to		
			10 Gbps at shorter runs (~≤55 m)		
			Conductors: 4 pairs of 100% copper wires		
			Connector: RJ-45 plug (standard Ethernet)		
			Jacket Material: Durable PVC		
			Compatibility: Works with routers, switches, modems,		
			gaming consoles, PCs, smart TVs		
36	8	PCS	5M FIBER PATCH CORD		
			(LC-LC/MM/DX/3.0/50um/5M/OM3)		
			Connector Type: LC to LC		
			Fiber Type: Multimode (MM), Fiber Standard: OM3		
			Core/Cladding Diameter: 50/125 μm		
			Cable Type: Duplex (DX), Cable Length: 5 meters		
			Cable Diameter: 3.0 mm, Jacket Material: LSZH		
			(Low Smoke Zero Halogen), Connector Polish: UPC		
			Color: Aqua (typical for OM3), Insertion Loss: ≤ 0.25 Db		
			Return Loss: ≥ 30–50 dB,Operating Temperature: -40 °C to +85 °C		
			Bandwidth Support: Up to 10/40/100 Gb Ethernet		
			depending on distance		
			Wavelength: 850 nm / 1300 nm		
37	8	PCS	Wireless Router		
			Device Interfaces, IEEE 802.11ac wireless LAN1		
			IEEE 802.11 a/b/g/n wireless LAN		
			10/100 fast Ethernet Internet port		
			Four 10/100 fast Ethernet LAN ports		
			Operating Frequency, 2.4 GHz band: 2400 - 2483.5 MHz		
			5 GHz band: 5150 - 5725 MHz		
			Security, WPA & WPA2 (Wi-Fi Protected Access)		
			WPS (Wi-Fi Protected Setup)		

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BILL OF QUANTITIES

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Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			Advanced Features		
			Web setup wizard		
			DMZ (Demilitarized Zone)		
			Firewall - Network Address Translation (NAT)		
			Wireless Repeater		
			Dimensions		
			190 x 133 x 83 mm (7.48 x 5.24 x 3.27 inches)		
			Weight		
			228.6 grams (8.06 ounces)		
			Power		
			Input: 100 to 240 V AC, 50/60 Hz		
			Temperature		
			Operating: 0 to 40 °C (32 to 104 °F)		
			Storage: -20 to 65 °C (-4 to 149 °F)		
38	4	PCS	Media Converter - RJ45 Rate 10/100/1000base		
			Certification CE, ISO, RoHS		
			Mac Address 1K, Frame Buffer Memory 512kb RAM		
			Port Type 1 RJ45 to Sc		
			SFP Rate 1000base		
			Power Supply External		
			UTP Cable Cat6(≤100m)		
39	2	PCS	Cable Manager		
			Product Type: Single-Sided Manager		
			Body Material: ABS		
			Orientation: Horizontal		
			Cover Material: PVC		
			Finger Material: ABS		
			Number of Rack Units: 2		
			Environment: Indoor		
			Color: Black		
			Standards Met: RoHS Compliant, UL 2416, CSA C22.2		
40	7	PCS	PoE Injector		
			Input Voltage (AC): 100- 240Vac (nominal)		
			Input Frequency Range: 47 Hz(min) ~ 63 Hz(max)		
			Output Voltage (DC): 48 V		
			Output Rating: 0.5A (24W)		
			Operating Temperature: -10°C ~ +40°C		
			Storage Temperature: -30°C ~ +80°C		
			Operating Humidity: 10%~95% non-condensing		
			Storage Humidity: 10%~95% non-condensing		

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Location of the Project: **FOUR (4) CAMPUSES**

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			Weight: 90 g, Certification: CE		
41	4	PCS	Unmanaged PoE Switch 8-ports with 4 PoE+ ports		
			(first 1-4 ports) and dedicated PoE power budget of 50 W		
			Bandwidth: 16 Gbps (non-blocking)		
			Performance: Full line rate and forwarding rate of 64B		
			frame at 1.488 Mpps for 1000M port, 0.1488 Mpps for		
			100M port, 0.01488 Mpps for 10M port		
			Quality of Service: 802.1p and DSCP		
			Status LEDs: Link, speed, activity, and PoE indicators		
			Power Supply: External, 54 VDC, 1.2 A		
			Power Saving: Cable connected detection Sleep mode		
			Power Consumption in Idle/Use (100% Traffic):		
			3.83 W / 7.0 W		
42	4	PCS	Network 24-port Layer 2+ Enterprise PoE switch,		
			24x1GE RJ45 Ports, 4x2.5 GE SFP Ports, PoE/PoE+		
			Ports & Interfaces		
			24x10/100/1000 BASE-T RJ45 ports with PoE/PoE+		
			support (IEEE 802.3af/at) - PoE power supplied to		
			endpoints such as APs, VoIP phones, and cameras.		
			4xSFP ports, supporting 1G/2.5G uplinks for higher-speed		
			backbone connections.		
			Dedicated RJ45 console port and USB management port		
			(typical hardware console/USB for configs).		
			Switching Performance		
			Switching capacity: ~82Gbps (line-rate throughput).		
			Forwarding rate: ~61Mpps (million packets per second).		
			MAC address table: 16,000 entries (supports large device		
			tables).		
			IPv4/IPv6 unicast routes: Supports static routing entries		
			for basic L3 forwarding (64 each).		
			PoE/Power		
			PoE/PoE+ output: Supports standard PoE (802.3af) and		
			PoE+ (802.3at) on all 24 RJ45 ports.		
			Total PoE budget: Up to approx. 370W (typical total power		
			deliverable to all PoE ports) - actual depends on		
			deployment and power source.		
			Management & Features		
			Layer 2+ managed functions: VLAN (incl. 802.1Q), QoS,		
			ACLs, STP/RSTP, LACP, IGMP/MLD Snooping.		
			Security & authentication: 802.1X, RADIUS, TACACS+,		

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FOUR (4) CAMPUSES
 Location of the Project: **FOUR (4) CAMPUSES**

page 12 of 12

BILL OF QUANTITIES

Date:

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	Unit Price	Total Price
			MAC filtering, DHCP Snooping.		
			Management interfaces: Web GUI, CLI, SNMP, and cloud-		
			based management with Ruijie Cloud/WIS for remote		
			monitoring and control.		
			Hardware & Physical		
			CPU: Single-core ~1.2 GHz processor.		
			Memory: 512 MB RAM, 64 MB flash.		
			Cooling: Dual fixed fans.		
			Rack-mountable: 1 RU metal chassis (19" rack		
			compatible).		
			Dimensions: ~ 440 × 220 × 43.6 mm.		
			Weight: ~ 2.5–2.8 kg.		
			Operating temp: 0°C to 45°C.		
			Humidity: 10% to 90%.		
			Terms and Conditions		
			• Warranty: Minimum of one (1) year warranty		
			• Delivery: Delivery shall be completed within		
			forty-five (45) calendar days upon receipt of Purchase Order (PO)		
			and/or Notice to Proceed (NTP)		
			• Green Initiative: Product must support energy-efficient or		
			environmentally friendly standards such as		
			Energy Star certification or equivalent, if applicable		
			• Condition: Item must be brand new, original,		
			and not refurbished		
			• Documentation: Supplier shall provide brochure, datasheet,		
			or manufacturer's specifications for verification of compliance		
			Sub-ABC = Php 416, 192.00		
			x-x-x-x-x-x-x-x-x-x-x-x-nothing follows-x-x-x-x-x-x-x-x-x-x		
			TOTAL ABC = Php 1,143,080.00		
			PR # 26-461-0526 05-26-2026/R. BUYCO		
			INCOME 248-164-26-05 05-28-2026		
			Note: All items should be delivered within Forty Five (45) calendar		
			days upon receipt of notice to proceed.		

Signature of Bidder
Name of Firm
Date

Section VI. Schedules of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item #	Description	Quantity	Total	Delivered, Weeks/Months
	LOT 1 - ICT SUPPLIES			
1	AVR 500VA PSL-500D W 3X220V, 1X110V Universal	6	6	
	CAPACITY: 500VA/300W			
	Input Voltage: 220/230/240Vac			
	Input Voltage Range: 220/230/240Vac: 172-276Vac			
	Input Frequency Range: 50 or 60 Hz			
	Output Steps of Regulation: 2 (1-step Boost & 1-step Buck)			
	Output Receptacles: Universal Nema*4pcs			
	Output Protection: Overload / short circuit: manual reset			
	circuit switch, Over-temperature: thermal switch			
	Indicators Regulating LED: Green			
	Environment Humidity: 0-95% (Non-condensing)			
	Noise Level: Less than 40dB at 1M			
	Dimension(W*H*D): 80*77*220MM			
2	Maintenance Box Chip Resetter	2	2	
	Compatible with Epson T04D1			
	Compatible with Epson T04D1			
	Function: Resets waste ink counter chip			
	Operation: Plug-in / press-to-reset			
	Power: Battery or USB (varies by model)			
	Use: Printer maintenance / servicing			
3	Printer Belt Encoder Strip	8	8	
	Compatible with Epson L3110			
	Material: Clear plastic with printed scale			
	Function: Carriage position sensing			
	Location: Inside printer, behind carriage rail			
	Importance: Ensures print alignment and accuracy			
4	Printer Cleaning Solution	10	10	
	Use: Print head, ink nozzle, ink tube cleaning			
	Compatible: Dye & pigment ink printers			
	Application: Manual cleaning / flushing			
	Purpose: Removes dried or clogged ink			
5	Printer Head Cable and Sensor	5	5	
	Compatible with Epson L120			
	Parts included:			
	Print head flat cable (FFC), Sensor (carriage / encoder sensor)			
	Function: Signal transmission & position detection			
	Use: Printer repair / replacement part			
	Material: Flexible ribbon cable + electronic sensor			
6	Printer Head Cable and Sensor	5	5	
	Compatible with Epson L3110			
	Compatible models: Epson L3110			
	Parts included: Print head flat cable (FFC)			
	Sensor (carriage / encoder sensor)			
	Function: Signal transmission & position detection			
	Use: Printer repair / replacement part			
	Material: Flexible ribbon cable + electronic sensor			
7	USB Keyboard and Mouse Black	20	20	
	Keycaps: A-Shape, Round Edge			

	Hotkeys: 12 FN Multimedia Hotkeys			
	Character: Laser Engraving			
	Adjustable Keyboard Legs: Yes			
	Rating: 5 V / 30 Ma, Dimension: 454 × 153 × 32 mm			
	Weight: 585 g, Cable Length: 150 cm, Port: USB, Mouse: OP-720			
	Report Rate: 125 Hz, Sensor: Optical, Resolution: 1000 DPI			
	Rating: 5 V / 100 mA, Buttons No.: 3,			
	Ergonomic Design: Symmetric, Size: Middle / Big Hands			
	Dimension: 119 × 62 × 37 mm, Weight: 86 g			
	Cable Length: 150 cm, Port: USB			
	System Requirements: Windows XP/Vista/7/8/8.1/10/11			
	Features: FN Hot Keys, 5M Clicks Button Lifetime, 1000 DPI			
	Dust-resistant Wheel			
	Comfort Rounded keycaps, Laser Inscribed keys			
	Adjustable keyboard height			
8	750 watts 80 Plus Bronze Power Supply	2	2	
	PART NO.: CP-9020237, AC INPUT: 100-240V			
	INPUT CURRENT: 10A-5A, FREQUENCY: 47~63Hz			
	TOTAL POWER: 750W			
9	Extension Cord Set with Universal	3	3	
	Outlet & Switch			
	Outlets: 4 Total - typically 3 convenience outlets + 1			
	universal outlet (accepts various plug types)			
	Rated Power: 2,500 W maximum total load			
	Rated Current: 10 A, Rated Voltage: 250 V			
	Cord Length: 1.83 meters (approx. 6 feet)			
	Switch: Master switch - controls all outlets			
	Materials: - Rigid brass internal strips,			
	- Copper outlet contacts for good grip and conductivity			
	Safety Features: - Real grounding system connection			
	Built-in safety circuit breaker, - Built-in lightning protector			
	(surge protection), - Fire-retardant enclosure material			
10	AVR 400-1000VA Single Phase 600W UPS	5	5	
	with AVR Uninterruptible Power Supply			
	General			
	Type: Line-Interactive UPS with AVR (Automatic Voltage			
	Regulation), Capacity: ~1000 VA / 600 W, Phase: Single-Phase AC			
	Form Factor: Tower style (upright design typical of			
	conventional UPS units), Weight & Size: About ~5.8 kg and			
	~95 × 320 × 160 mm, Weight & Size: About ~5.8 kg and			
	~95 × 320 × 160 mm, Input / Output			
	Input Voltage: Designed for 220 / 230 / 240 V AC			
	(50 / 60 Hz) single-phase grid inputs			
	Output Voltage: Regulated 220 / 230 / 240 V AC via AVR			
	and battery backup as needed			
	Automatic Voltage Regulation (AVR): Boost and buck to			
	correct high or low input voltages before switching to			
	battery, Sockets: Usually 4 × universal outlets to accommodate			
	different plug types, Battery,			
	Battery Type: Internal sealed lead-acid (typical for this class)			
	Battery Configuration: 1 × 12 V/9 Ah (common spec on			
	equivalent AID1000 models)			
	Charging: Fast charging with auto-charge even in OFF			
	mode, Cold Start: Can power on directly from battery in absence			
	of utility power, Indicators & Controls,			
	Front panel LED indicators for AC output (green), battery			
	status (yellow), and DC output (red)			

	Power On/Off button on front panel, Protection			
	Overload protection & short-circuit protection			
	Basic surge and undervoltage defense via AVR and in-built control, Runtime			
	Offers several minutes of runtime depending on connected load (e.g., around 7-8 minutes with ~180 W load) - actual backup time varies by usage and battery condition.			
11	10 pcs screwdriver and precision screwdriver set	2	2	
	Basic Screwdrivers (6 pieces)			
	Used for general household tasks like furniture assembly, appliances, etc., Slotted (Flathead) sizes - e.g., SL5×75mm, SL5×100mm, SL6×150mm, Phillips sizes - e.g., PH1×75mm, PH1×100mm, PH2×150mm, Precision Screwdrivers (4 small pieces)			
	Used for electronics, gadgets, eyeglasses, tiny screws.			
	Slotted - e.g., SL3 × 50 mm, Phillips - PH0 × 50 mm			
	Torx - T6 & T8 × 50 mm,			
	Total: 10 pieces - 6 regular + 4 precision drivers.			
12	Crimping Tool	2	2	
	Electrical terminals: ring, spade, butt connectors			
	Networking cables: RJ45 (Ethernet), RJ11 (phone), RJ12			
	Modular plugs: crimping data connectors onto CAT5/6/7 cables			
	Some tools can crimp, cut, and strip wires in one tool.			
	Handheld plier-style: manual hydraulic, ratchet, or regular			
	Ratchet action: ensures full compression before release			
	Adjustable dies or multiple crimping positions			
	Insulated handles for safe electrical work (in some models)			
13	HDD/SSD DOCKING STATION	2	2	
	Compatibility: 2.5" & 3.5" SATA HDD/SSD (SATA I/II/III).			
	Interface: USB 3.0 / USB 3.2 Gen 1 (up to 5 Gbps) - fast transfers.			
	Clone Function: Some docks can copy drives without a PC connected. Plug & Play: No drivers needed on most systems (Windows, Mac, Linux).			
	Hot-Swappable: You can add/remove drives without shutting down (varies by model).			
14	VGA TO HDMI	3	3	
	Direction: VGA input → HDMI output (unidirectional)			
	Video Support: Up to 1920×1080 (1080p) at 60 Hz on most converters			
	Audio: Often includes a 3.5 mm stereo audio input to embed audio into HDMI			
	Power: Many adapters are USB-powered if the VGA source can't supply enough power for conversion			
	Compatibility: Works with older desktops/laptops with VGA ports and HDTVs/Monitors with HDMI inputs			
15	DOUBLE A BATTERY (AA)	6	6	
	Type: AA (Double-A)			
	Voltage: 1.5V (Alkaline) / 1.2V (Rechargeable)			
	Size: Approx. 50.5 mm length × 14.5 mm diameter			
	Capacity: Approx. 1,800–3,000 mAh (alkaline)			
	Chemical Type: Alkaline/Carbon Zinc/Ni-MH (rechargeable)			
	Common Uses: Remote controls, toys, flashlights, radios, wireless mouse & keyboard			
16	TRIPLE A BATTERY (AAA)	6	6	

	Voltage: 1.5V (Alkaline) / 1.2V (Rechargeable)			
	Size: Approx. 44.5 mm length × 10.5 mm diameter			
	Capacity: Approx. 800–1,200 mAh (alkaline)			
	Chemical Type: Alkaline/Carbon Zinc/Ni-MH			
	(rechargeable)			
	Common Uses: TV remotes, clocks, small LED lights, wireless keyboard/mouse, calculators			
17	8GB DDR4 3200MHz RAM	5	5	
	Module Type: 288 Pin Unbuffered DIMM Non ECC			
	Capacity: 8GB, Frequency: 3200, Data Transfer: 25,600 MB/s			
	Bandwidth: (PC4 25600), Latency: CL22-22-22-52			
	Voltage: 1.2V			
18	USB Type-C to LAN Adapter	3	3	
	Operating System: Windows 11/10/8.1/8/7/XP, Mac OS, iPad OS, Chrome OS, Linux			
	Data transfer rate: 1000 Megabits Per Second			
	Hardware interface: USB 3.1 Type C			
19	Male USB C to Female USB A Adapter, 1 m	3	3	
	• Male-to-female connector, • USB A-to-USB C connector			
	• Length of 1 m, • Black sheath color, • USB A type 3.0			
	• USB C type 3.1			
20	HDMI Male-to-Male Cable 10m	5	5	
	Supports 4K, 1080P full HD, 3D, Ethernet Channel, 48-bit Deep Color and Audio Return Channel (ARC), audio video sync, HDCP compliant.			
	Widely compatible with Blu-ray player, computer, AV receiver, Roku, PS 3/4. Xbox One/360, Nintendo Wii, TV, HDTV, monitor, or projector.			
21	HDMI Male-to-Male Cable 5m	6	6	
	Supports 4K, 1080P full HD, 3D, Ethernet Channel, 48-bit Deep Color and Audio Return Channel (ARC), audio video sync, HDCP compliant.			
	Widely compatible with Blu-ray player, computer, AV receiver, Roku, PS 3/4. Xbox One/360, Nintendo Wii, TV, HDTV, monitor, or projector.			
22	HDMI Male-to-Male Cable 15m	10	10	
	Supports 4K, 1080P full HD, 3D, Ethernet Channel, 48-bit Deep Color and Audio Return Channel (ARC), audio video sync, HDCP compliant.			
	Widely compatible with Blu-ray player, computer, AV receiver, Roku, PS 3/4. Xbox One/360, Nintendo Wii, TV, HDTV, monitor, or projector.			
23	Interphone Two-Way Radio Walkie Talkie (Black)	2	2	
	5W 16Ch 400-470MHz			
	Channel Capacity: 16, Channel Spacing: 25KHz			
	Operated Voltage: 3.7 V, Battery: 2800MAh Li-ion			
	Frequency Stability: 2.5ppm			
	Antenna Impedance : 50			
	Communication Range: in open area 1~3km. in urban,300m~1km, Minimum of 1 year warranty			
24	M.2 NVMe SSD	1	1	
	Dual Bay Duplicator Material: Aluminum Alloy,			
	Size: 82.2mm(L)*62mm(W)*13.8mm(H),			
	Controller Solution: ASM2362+ASM2806A (10Gbps) ,			
	Transfer Rate: USB3.1 10Gbps,			
	Supported System: Mac OS, Windows, Linux, Android			
	Minimum of 1 year warranty			

25	RJ45 (8P8C)	4	4	
	Number of Pins: 8			
	Cable Type: Twisted-pair copper (Cat5e / Cat6 / Cat6a),			
	10/100/1000 Mbps (up to 10 Gbps with Cat6a),			
	Transmission Medium: Ethernet (LAN)			
	Standard: IEEE 802.3, Termination: Crimp type			
	Shielding: UTP / STP (model dependent)			
26	Crimping Tool Pass Through	2	2	
	Supports RJ45 (Cat5, Cat5e, Cat6, Cat6a, Cat7)			
	and RJ11/RJ12 pass-through or standard modular plugs			
	Replaceable blade for the "crimp & trim" function;			
	also includes a cable jacket stripper and wire cutter			
	Ergonomic, non-slip grip.			
27	64GB USB Flash Drive	3	3	
	USB 3.2 Gen 1 (USB 3.0/USB 3.1 Gen 1 compatible)			
	Windows, macOS, Linux compatible, at least 5-year warranty			
28	All-in-One PC Power adapter 19v 65w 3.42A	4	4	
	Compatible with Acer Aspire C24-1851			
	Connector size: 5.5mm x 1.7mm			
	Terms and Conditions			
	• Warranty: Minimum of one (1) year warranty			
	• Delivery: Delivery shall be completed within			
	forty-five (45) calendar days upon receipt of			
	Purchase Order (PO) and/or Notice to Proceed (NTP)			
	• Green Initiative: Product must support energy-efficient or			
	environmentally friendly standards such as			
	Energy Star certification or equivalent, if applicable			
	• Condition: Item must be brand new, original,			
	and not refurbished			
	• Documentation: Supplier shall provide brochure, datasheet,			
	or manufacturer's specifications for verification of compliance			
	Sub-ABC = Php 147,888.00			
	LOT 2 - ICT EQUIPMENT			
29	PC Monitor 24"	5	5	
	Screen Size: 23.8 inches, Panel Type: IPS,			
	Resolution: 1920 x 1080 (Full HD), Refresh Rate: 100Hz			
	Backlight: WLED, Display Colors: 16.7M (8-bit), Aspect Ratio: 16:9			
	Contrast Ratio: 1000:1, Brightness: 230 cd/m², Color: Black			
30	LCD Projector	4	4	
	3LCD, 3-chip technology			
	Brightness: 3,200 lumens (normal), 2,240 lumens (eco)			
	Native Resolution: SVGA (800X600), 4:3 aspect ratio			
	Connectivity: HDMI, VGA, USB 2.0 Type A & B, Composite,			
	S-Video, Optional Wireless LAN			
	Contrast Ratio: 15,000:1			
	Lamp Life: 5,000 hours (normal), 10,000 hours (eco)			
	Keystone Correction: Auto Vertical, Manual Horizontal			
	Screen Size: 30" - 350", Minimum of 1 year warranty			
31	55" Smart TV 4K UHD	14	14	
	Ultra HD 3840x2160, CSPF Rating - 8.9, Power Input - 92 W			
	Power Consumption - 160 W			
	Standby Power Consumption - ≤ 0.5 W			
	Rated Power - AC 100- 240 V 50/60 Hz			
	Vivid motion 60Hz,			

	Dynamic contrast ratio 3,000,000:1, Aspect Ratio 16:9.			
32	43" 4K LED TV	3	3	
	Slim & Unibody Design, Metallic Finish Frame, 4K QLED Google TV			
	350 nits brightness (typ.), WCG up to 93% DCI-P3			
	AIPQ Processor, HVA Screen (3x Contrast Enhancement)			
	MEMC 60Hz, 2.0CH 2*10W Speakers,			
	Game Bar / Game Mode / ALLM, Hands Free Voice ControlCPU:			
	Cortex A55*5 1.5Ghz, (normal) 1.9Ghz (DVFS),			
	GPU: G57 MC1, 800Mhz, Memory: 2GB + 16GB, Wi-Fi 5 (2.4G+5G)			
	Bluetooth 5.4			
	Terms and Conditions			
	• Warranty: Minimum of one (1) year warranty			
	• Delivery: Delivery shall be completed within			
	forty-five (45) calendar days upon receipt of Purchase Order (PO)			
	and/or Notice to Proceed (NTP)			
	• Green Initiative: Product must support energy-efficient or			
	environmentally friendly standards such as			
	Energy Star certification or equivalent, if applicable			
	• Condition: Item must be brand new, original,			
	and not refurbished			
	• Documentation: Supplier shall provide brochure, datasheet,			
	or manufacturer's specifications for verification of compliance			
	Sub-ABC = Php 579,000.00			
	LOT 3 - NETWORK SUPPLIES AND EQUIPMENT			
33	Optical Module Gigabit Single Mode	2	2	
	Single Core SFP 1.25G			
	Form Factor: SFP, Data Rate: 1.25 Gbps (Gigabit)			
	Fiber Type: Single-Mode (SMF)			
	Core: Single core (Bi-Directional / Simplex)			
	Connector: LC, Wavelength: 1310 nm / 1550 nm (used as a pair)			
	Transmission Distance: 10 km			
	(also available: 5 km / 20 km / 40 km / 80 km)			
	Port Type: LC simplex, Power Supply: 3.3 V			
	Hot-Pluggable: Yes, Standards: IEEE 802.3, SFP MSA			
	Operating Temperature: 0 °C to 70 °C			
	Compatibility: Cisco / Huawei / HP compatible, (model-dependent)			
34	SFP Dual Mode Module	4	4	
	These vary by module model but usually include:			
	Interface & Port Details			
	Dual-mode GE/SFP Ports - accept RJ-45 or pluggable SFP			
	optics, Data Rate - typically 1 Gbps per port (can vary based on			
	module and optics), Module Format			
	Service modules like SM-X or EHWIC that fit specific			
	Cisco routers., Compatibility			
	Designed for Cisco ISR 4000 series and compatible			
	platforms with the appropriate module slot.			
	Environmental			
35	CAT 6 LAN cable	6	6	
	Category: Cat 6 (Category 6)			
	Standard: Meets Cat 6 specifications for LAN cabling			
	(TIA/EIA etc.), Bandwidth: Up to 250 MHz			
	Data Speeds: Up to 1 Gbps at 100 m, and up to			
	10 Gbps at shorter runs (~≤55 m)			
	Conductors: 4 pairs of 100% copper wires			

	Connector: RJ-45 plug (standard Ethernet)			
	Jacket Material: Durable PVC			
	Compatibility: Works with routers, switches, modems, gaming consoles, PCs, smart TVs			
36	5M FIBER PATCH CORD (LC-LC/MM/DX/3.0/50um/5M/OM3)	8	8	
	Connector Type: LC to LC			
	Fiber Type: Multimode (MM), Fiber Standard: OM3			
	Core/Cladding Diameter: 50/125 µm			
	Cable Type: Duplex (DX), Cable Length: 5 meters			
	Cable Diameter: 3.0 mm, Jacket Material: LSZH (Low Smoke Zero Halogen), Connector Polish: UPC			
	Color: Aqua (typical for OM3), Insertion Loss: ≤ 0.25 Db			
	Return Loss: ≥ 30–50 dB, Operating Temperature: -40 °C to +85 °C			
	Bandwidth Support: Up to 10/40/100 Gb Ethernet depending on distance			
	Wavelength: 850 nm / 1300 nm			
37	Wireless Router	8	8	
	Device Interfaces, IEEE 802.11ac wireless LAN1			
	IEEE 802.11 a/b/g/n wireless LAN			
	10/100 fast Ethernet Internet port			
	Four 10/100 fast Ethernet LAN ports			
	Operating Frequency, 2.4 GHz band: 2400 - 2483.5 MHz			
	5 GHz band: 5150 - 5725 MHz			
	Security, WPA & WPA2 (Wi-Fi Protected Access)			
	WPS (Wi-Fi Protected Setup)			
	Advanced Features			
	Web setup wizard			
	DMZ (Demilitarized Zone)			
	Firewall - Network Address Translation (NAT)			
	Wireless Repeater			
	Dimensions			
	190 x 133 x 83 mm (7.48 x 5.24 x 3.27 inches)			
	Weight			
	228.6 grams (8.06 ounces)			
	Power			
	Input: 100 to 240 V AC, 50/60 Hz			
	Temperature			
	Operating: 0 to 40 °C (32 to 104 °F)			
	Storage: -20 to 65 °C (-4 to 149 °F)			
38	Media Converter - RJ45 Rate 10/100/1000base	4	4	
	Certification CE, ISO, RoHS			
	Mac Address 1K, Frame Buffer Memory 512kb RAM			
	Port Type 1 RJ45 to SFP			
	SFP Rate 1000base			
	Power Supply External			
	UTP Cable Cat6(≤100m)			
39	Cable Manager	2	2	
	Product Type: Single-Sided Manager			
	Body Material: ABS			
	Orientation: Horizontal			
	Cover Material: PVC			
	Finger Material: ABS			
	Number of Rack Units: 2			
	Environment: Indoor			
	Color: Black			
	Standards Met: RoHS Compliant, UL 2416, CSA C22.2			

40	PoE Injector	7	7	
	Input Voltage (AC): 100- 240Vac (nominal)			
	Input Frequency Range: 47 Hz(min) ~ 63 Hz(max)			
	Output Voltage (DC): 48 V			
	Output Rating: 0.5A (24W)			
	Operating Temperature: -10°C ~ +40°C			
	Storage Temperature: -30°C ~ +80°C			
	Operating Humidity: 10%~95% non-condensing			
	Storage Humidity: 10%~95% non-condensing			
	Weight: 90 g, Certification: CE			
41	Unmanaged PoE Switch 8-ports with 4 PoE+ ports	4	4	
	(first 1-4 ports) and dedicated PoE power budget of 50 W			
	Bandwidth: 16 Gbps (non-blocking)			
	Performance: Full line rate and forwarding rate of 64B frame at 1.488 Mpps for 1000M port, 0.1488 Mpps for 100M port, 0.01488 Mpps for 10M port			
	Quality of Service: 802.1p and DSCP			
	Status LEDs: Link, speed, activity, and PoE indicators			
	Power Supply: External, 54 VDC, 1.2 A			
	Power Saving: Cable connected detection Sleep mode			
	Power Consumption in Idle/Use (100% Traffic): 3.83 W / 7.0 W			
42	Network 24-port Layer 2+ Enterprise PoE switch, 24x1GE RJ45 Ports, 4x2.5 GE SFP Ports, PoE/PoE+	4	4	
	Ports & Interfaces			
	24x10/100/1000 BASE-T RJ45 ports with PoE/PoE+ support (IEEE 802.3af/at) - PoE power supplied to endpoints such as APs, VoIP phones, and cameras.			
	4xSFP ports, supporting 1G/2.5G uplinks for higher-speed backbone connections.			
	Dedicated RJ45 console port and USB management port (typical hardware console/USB for configs).			
	Switching Performance			
	Switching capacity: ~82Gbps (line-rate throughput).			
	Forwarding rate: ~61Mpps (million packets per second).			
	MAC address table: 16,000 entries (supports large device tables).			
	IPv4/IPv6 unicast routes: Supports static routing entries for basic L3 forwarding (64 each).			
	PoE/Power			
	PoE/PoE+ output: Supports standard PoE (802.3af) and PoE+ (802.3at) on all 24 RJ45 ports.			
	Total PoE budget: Up to approx. 370W (typical total power deliverable to all PoE ports) - actual depends on deployment and power source.			
	Management & Features			
	Layer 2+ managed functions: VLAN (incl. 802.1Q), QoS, ACLs, STP/RSTP, LACP, IGMP/MLD Snooping.			
	Security & authentication: 802.1X, RADIUS, TACACS+, MAC filtering, DHCP Snooping.			
	Management interfaces: Web GUI, CLI, SNMP, and cloud-based management with Ruijie Cloud/WIS for remote monitoring and control.			
	Hardware & Physical			
	CPU: Single-core ~1.2 GHz processor.			
	Memory: 512 MB RAM, 64 MB flash.			
	Cooling: Dual fixed fans.			

[illegible]

Section VII. Technical Specifications

Item	Specification	Statement of Compliance
		Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a.2) and/or GCC Clause 2.1(a.2).
	LOT 1 - ICT SUPPLIES	
1	AVR 500VA PSL-500D W 3X220V, 1X110V Universal	
	CAPACITY: 500VA/300W	
	Input Voltage: 220/230/240Vac	
	Input Voltage Range: 220/230/240Vac: 172-276Vac	
	Input Frequency Range: 50 or 60 Hz	
	Output Steps of Regulation: 2 (1-step Boost & 1-step Buck)	
	Output Receptacles: Universal Nema*4pcs	
	Output Protection: Overload / short circuit: manual reset	
	circuit switch, Over-temperature: thermal switch	
	Indicators Regulating LED: Green	
	Environment Humidity: 0-95% (Non-condensing)	
	Noise Level: Less than 40dB at 1M	
	Dimension(W*H*D): 80*77*220MM	
2	Maintenance Box Chip Resetter	
	Compatible with Epson T04D1	
	Compatible with Epson T04D1	
	Function: Resets waste ink counter chip	
	Operation: Plug-in / press-to-reset	
	Power: Battery or USB (varies by model)	
	Use: Printer maintenance / servicing	

3	Printer Belt Encoder Strip	
	Compatible with Epson L3110	
	Material: Clear plastic with printed scale	
	Function: Carriage position sensing	
	Location: Inside printer, behind carriage rail	
	Importance: Ensures print alignment and accuracy	
4	Printer Cleaning Solution	
	Use: Print head, ink nozzle, ink tube cleaning	
	Compatible: Dye & pigment ink printers	
	Application: Manual cleaning / flushing	
	Purpose: Removes dried or clogged ink	
5	Printer Head Cable and Sensor	
	Compatible with Epson L120	
	Parts included:	
	Print head flat cable (FFC), Sensor (carriage / encoder sensor)	
	Function: Signal transmission & position detection	
	Use: Printer repair / replacement part	
	Material: Flexible ribbon cable + electronic sensor	
6	Printer Head Cable and Sensor	
	Compatible with Epson L3110	
	Compatible models: Epson L3110	
	Parts included: Print head flat cable (FFC)	
	Sensor (carriage / encoder sensor)	
	Function: Signal transmission & position detection	
	Use: Printer repair / replacement part	
	Material: Flexible ribbon cable + electronic sensor	
7	USB Keyboard and Mouse Black	
	Keycaps: A-Shape, Round Edge	
	Hotkeys: 12 FN Multimedia Hotkeys	
	Character: Laser Engraving	
	Adjustable Keyboard Legs: Yes	
	Rating: 5 V / 30 Ma, Dimension: 454 × 153 × 32 mm	
	Weight: 585 g, Cable Length: 150 cm, Port: USB, Mouse: OP-720	
	Report Rate: 125 Hz, Sensor: Optical, Resolution: 1000 DPI	
	Rating: 5 V / 100 mA, Buttons No.: 3,	
	Ergonomic Design: Symmetric, Size: Middle / Big Hands	
	Dimension: 119 × 62 × 37 mm, Weight: 86 g	
	Cable Length: 150 cm, Port: USB	
	System Requirements: Windows XP/Vista/7/8/8.1/10/11	
	Features: FN Hot Keys, 5M Clicks Button Lifetime, 1000 DPI	
	Dust-resistant Wheel	
	Comfort Rounded keycaps, Laser Inscribed keys	
	Adjustable keyboard height	
8	750 watts 80 Plus Bronze Power Supply	
	PART NO.: CP-9020237, AC INPUT: 100-240V	
	INPUT CURRENT: 10A-5A, FREQUENCY: 47~63Hz	
	TOTAL POWER: 750W	
9	Extension Cord Set with Universal	
	Outlet & Switch	
	Outlets: 4 Total - typically 3 convenience outlets + 1	
	universal outlet (accepts various plug types)	
	Rated Power: 2,500 W maximum total load	
	Rated Current: 10 A, Rated Voltage: 250 V	
	Cord Length: 1.83 meters (approx. 6 feet)	
	Switch: Master switch - controls all outlets	

	Materials: - Rigid brass internal strips,	
	- Copper outlet contacts for good grip and conductivity	
	Safety Features: - Real grounding system connection	
	Built-in safety circuit breaker, - Built-in lightning protector	
	(surge protection), - Fire-retardant enclosure material	
10	AVR 400-1000VA Single Phase 600W UPS	
	with AVR Uninterruptible Power Supply	
	General	
	Type: Line-Interactive UPS with AVR (Automatic Voltage	
	Regulation), Capacity: ~1000 VA / 600 W, Phase: Single-Phase AC	
	Form Factor: Tower style (upright design typical of	
	conventional UPS units), Weight & Size: About ~5.8 kg and	
	~95 × 320 × 160 mm, Weight & Size: About ~5.8 kg and	
	~95 × 320 × 160 mm, Input / Output	
	Input Voltage: Designed for 220 / 230 / 240 V AC	
	(50 / 60 Hz) single-phase grid inputs	
	Output Voltage: Regulated 220 / 230 / 240 V AC via AVR	
	and battery backup as needed	
	Automatic Voltage Regulation (AVR): Boost and buck to	
	correct high or low input voltages before switching to	
	battery, Sockets: Usually 4 × universal outlets to accommodate	
	different plug types, Battery,	
	Battery Type: Internal sealed lead-acid (typical for this class)	
	Battery Configuration: 1 × 12 V/9 Ah (common spec on	
	equivalent AID1000 models)	
	Charging: Fast charging with auto-charge even in OFF	
	mode, Cold Start: Can power on directly from battery in absence	
	of utility power, Indicators & Controls,	
	Front panel LED indicators for AC output (green), battery	
	status (yellow), and DC output (red)	
	Power On/Off button on front panel, Protection	
	Overload protection & short-circuit protection	
	Basic surge and undervoltage defense via AVR and in-built	
	control, Runtime	
	Offers several minutes of runtime depending on connected	
	load (e.g., around 7-8 minutes with ~180 W load) - actual	
	backup time varies by usage and battery condition.	
11	10 pcs screwdriver and precision screwdriver set	
	Basic Screwdrivers (6 pieces)	
	Used for general household tasks like furniture assembly,	
	appliances, etc., Slotted (Flathead) sizes - e.g., SL5×75mm,	
	SL5×100mm, SL6×150mm, Phillips sizes - e.g., PH1×75mm,	
	PH1×100mm, PH2×150mm, Precision Screwdrivers (4 small pieces)	
	Used for electronics, gadgets, eyeglasses, tiny screws.	
	Slotted - e.g., SL3 × 50 mm, Phillips - PH0 × 50 mm	
	Torx - T6 & T8 × 50 mm,	
	Total: 10 pieces - 6 regular + 4 precision drivers.	
12	Crimping Tool	
	Electrical terminals: ring, spade, butt connectors	
	Networking cables: RJ45 (Ethernet), RJ11 (phone), RJ12	
	Modular plugs: crimping data connectors onto CAT5/6/7	
	cables	
	Some tools can crimp, cut, and strip wires in one tool.	
	Handheld plier-style: manual hydraulic, ratchet, or regular	
	Ratchet action: ensures full compression before release	

	Adjustable dies or multiple crimping positions	
	Insulated handles for safe electrical work (in some models)	
13	HDD/SSD DOCKING STATION	
	Compatibility: 2.5" & 3.5" SATA HDD/SSD (SATA I/II/III).	
	Interface: USB 3.0 / USB 3.2 Gen 1 (up to 5 Gbps) - fast transfers.	
	Clone Function: Some docks can copy drives without a PC connected. Plug & Play: No drivers needed on most systems (Windows, Mac, Linux).	
	Hot-Swappable: You can add/remove drives without shutting down (varies by model).	
14	VGA TO HDMI	
	Direction: VGA input → HDMI output (unidirectional)	
	Video Support: Up to 1920×1080 (1080p) at 60 Hz on most converters	
	Audio: Often includes a 3.5 mm stereo audio input to embed audio into HDMI	
	Power: Many adapters are USB-powered if the VGA source can't supply enough power for conversion	
	Compatibility: Works with older desktops/laptops with VGA ports and HDTVs/Monitors with HDMI inputs	
15	DOUBLE A BATTERY (AA)	
	Type: AA (Double-A)	
	Voltage: 1.5V (Alkaline) / 1.2V (Rechargeable)	
	Size: Approx. 50.5 mm length × 14.5 mm diameter	
	Capacity: Approx. 1,800–3,000 mAh (alkaline)	
	Chemical Type: Alkaline/Carbon Zinc/Ni-MH (rechargeable)	
	Common Uses: Remote controls, toys, flashlights, radios, wireless mouse & keyboard	
16	TRIPLE A BATTERY (AAA)	
	Voltage: 1.5V (Alkaline) / 1.2V (Rechargeable)	
	Size: Approx. 44.5 mm length × 10.5 mm diameter	
	Capacity: Approx. 800–1,200 mAh (alkaline)	
	Chemical Type: Alkaline/Carbon Zinc/Ni-MH (rechargeable)	
	Common Uses: TV remotes, clocks, small LED lights, wireless keyboard/mouse, calculators	
17	8GB DDR4 3200MHz RAM	
	Module Type: 288 Pin Unbuffered DIMM Non ECC	
	Capacity: 8GB, Frequency: 3200, Data Transfer: 25,600 MB/s	
	Bandwidth: (PC4 25600), Latency: CL22-22-22-52	
	Voltage: 1.2V	
18	USB Type-C to LAN Adapter	
	Operating System: Windows 11/10/8.1/8/7/XP, Mac OS, iPad OS, Chrome OS, Linux	
	Data transfer rate: 1000 Megabits Per Second	
	Hardware interface: USB 3.1 Type C	
19	Male USB C to Female USB A Adapter, 1 m	
	• Male-to-female connector, • USB A-to-USB C connector	
	• Length of 1 m, • Black sheath color, • USB A type 3.0	
	• USB C type 3.1	
20	HDMI Male-to-Male Cable 10m	
	Supports 4K, 1080P full HD, 3D, Ethernet Channel,	

	48-bit Deep Color and Audio Return Channel (ARC),	
	audio video sync, HDCP compliant.	
	Widely compatible with Blu-ray player, computer,	
	AV receiver, Roku, PS 3/4. Xbox One/360,	
	Nintendo Wii, TV, HDTV, monitor, or projector.	
21	HDMI Male-to-Male Cable 5m	
	Supports 4K, 1080P full HD, 3D, Ethernet Channel,	
	48-bit Deep Color and Audio Return Channel (ARC),	
	audio video sync, HDCP compliant.	
	Widely compatible with Blu-ray player, computer,	
	AV receiver, Roku, PS 3/4. Xbox One/360,	
	Nintendo Wii, TV, HDTV, monitor, or projector.	
22	HDMI Male-to-Male Cable 15m	
	Supports 4K, 1080P full HD, 3D, Ethernet Channel,	
	48-bit Deep Color and Audio Return Channel (ARC),	
	audio video sync, HDCP compliant.	
	Widely compatible with Blu-ray player, computer,	
	AV receiver, Roku, PS 3/4. Xbox One/360,	
	Nintendo Wii, TV, HDTV, monitor, or projector.	
23	Interphone Two-Way Radio Walkie Talkie (Black)	
	5W 16Ch 400-470MHz	
	Channel Capacity: 16, Channel Spacing: 25KHz	
	Operated Voltage: 3.7 V, Battery: 2800MAh Li-ion	
	Frequency Stability: 2.5ppm	
	Antenna Impedance : 50	
	Communication Range: in open area 1~3km. in	
	urban,300m~1km, Minimum of 1 year warranty	
24	M.2 NVMe SSD	
	Dual Bay Duplicator Material: Aluminum Alloy,	
	Size: 82.2mm(L)*62mm(W)*13.8mm(H),	
	Controller Solution: ASM2362+ASM2806A (10Gbps) ,	
	Transfer Rate: USB3.1 10Gbps,	
	Supported System: Mac OS, Windows, Linux, Android	
	Minimum of 1 year warranty	
25	RJ45 (8P8C)	
	Number of Pins: 8	
	Cable Type: Twisted-pair copper (Cat5e / Cat6 / Cat6a),	
	10/100/1000 Mbps (up to 10 Gbps with Cat6a),	
	Transmission Medium: Ethernet (LAN)	
	Standard: IEEE 802.3, Termination: Crimp type	
	Shielding: UTP / STP (model dependent)	
26	Crimping Tool Pass Through	
	Supports RJ45 (Cat5, Cat5e, Cat6, Cat6a, Cat7)	
	and RJ11/RJ12 pass-through or standard modular plugs	
	Replaceable blade for the "crimp & trim" function;	
	also includes a cable jacket stripper and wire cutter	
	Ergonomic, non-slip grip.	
27	64GB USB Flash Drive	
	USB 3.2 Gen 1 (USB 3.0/USB 3.1 Gen 1 compatible)	
	Windows, macOS, Linux compatible, at least 5-year warranty	
28	All-in-One PC Power adapter 19v 65w 3.42A	
	Compatible with Acer Aspire C24-1851	
	Connector size: 5.5mm x 1.7mm	

	Terms and Conditions	
	• Warranty: Minimum of one (1) year warranty	
	• Delivery: Delivery shall be completed within	
	forty-five (45) calendar days upon receipt of	
	Purchase Order (PO) and/or Notice to Proceed (NTP)	
	• Green Initiative: Product must support energy-efficient or	
	environmentally friendly standards such as	
	Energy Star certification or equivalent, if applicable	
	• Condition: Item must be brand new, original,	
	and not refurbished	
	• Documentation: Supplier shall provide brochure, datasheet,	
	or manufacturer's specifications for verification of compliance	
	Sub-ABC = Php 147,888.00	
	LOT 2 - ICT EQUIPMENT	
29	PC Monitor 24"	
	Screen Size: 23.8 inches, Panel Type: IPS,	
	Resolution: 1920 x 1080 (Full HD), Refresh Rate: 100Hz	
	Backlight: WLED, Display Colors: 16.7M (8-bit), Aspect Ratio: 16:9	
	Contrast Ratio: 1000:1, Brightness: 230 cd/m ² , Color: Black	
30	LCD Projector	
	3LCD, 3-chip technology	
	Brightness: 3,200 lumens (normal), 2,240 lumens (eco)	
	Native Resolution: SVGA (800X600), 4:3 aspect ratio	
	Connectivity: HDMI, VGA, USB 2.0 Type A & B, Composite,	
	S-Video, Optional Wireless LAN	
	Contrast Ratio: 15,000:1	
	Lamp Life: 5,000 hours (normal), 10,000 hours (eco)	
	Keystone Correction: Auto Vertical, Manual Horizontal	
	Screen Size: 30" - 350", Minimum of 1 year warranty	
31	55" Smart TV 4K UHD	
	Ultra HD 3840x2160, CSPF Rating - 8.9, Power Input - 92 W	
	Power Consumption - 160 W	
	Standby Power Consumption - ≤ 0.5 W	
	Rated Power - AC 100- 240 V 50/60 Hz	
	Vivid motion 60Hz,	
	Dynamic contrast ratio 3,000,000:1, Aspect Ratio 16:9.	
32	43" 4K LED TV	
	Slim & Unibody Design, Metallic Finish Frame, 4K QLED Google TV	
	350 nits brightness (typ.), WCG up tp 93% DCI-P3	
	AIPQ Processor, HVA Screen (3x Contrast Enhancement)	
	MEMC 60Hz, 2.0CH 2*10W Speakers,	
	Game Bar / Game Mode / ALLM, Hands Free Voice ControlCPU:	
	Cortex A55*5 1.5Ghz, (normal) 1.9Ghz (DVFS),	
	GPU: G57 MC1, 800Mhz, Memory: 2GB + 16GB, Wi-Fi 5 (2.4G+5G)	
	Bluetooth 5.4	
	Terms and Conditions	
	• Warranty: Minimum of one (1) year warranty	
	• Delivery: Delivery shall be completed within	
	forty-five (45) calendar days upon receipt of Purchase Order (PO)	
	and/or Notice to Proceed (NTP)	
	• Green Initiative: Product must support energy-efficient or	
	environmentally friendly standards such as	

	Energy Star certification or equivalent, if applicable	
	• Condition: Item must be brand new, original, and not refurbished	
	• Documentation: Supplier shall provide brochure, datasheet, or manufacturer's specifications for verification of compliance	
	Sub-ABC = Php 579,000.00	
	LOT 3 - NETWORK SUPPLIES AND EQUIPMENT	
33	Optical Module Gigabit Single Mode Single Core SFP 1.25G	
	Form Factor: SFP, Data Rate: 1.25 Gbps (Gigabit)	
	Fiber Type: Single-Mode (SMF)	
	Core: Single core (Bi-Directional / Simplex)	
	Connector: LC, Wavelength: 1310 nm / 1550 nm (used as a pair)	
	Transmission Distance: 10 km	
	(also available: 5 km / 20 km / 40 km / 80 km)	
	Port Type: LC simplex, Power Supply: 3.3 V	
	Hot-Pluggable: Yes, Standards: IEEE 802.3, SFP MSA	
	Operating Temperature: 0 °C to 70 °C	
	Compatibility: Cisco / Huawei / HP compatible, (model-dependent)	
34	SFP Dual Mode Module	
	These vary by module model but usually include:	
	Interface & Port Details	
	Dual-mode GE/SFP Ports - accept RJ-45 or pluggable SFP optics, Data Rate - typically 1 Gbps per port (can vary based on module and optics), Module Format	
	Service modules like SM-X or EHWIC that fit specific Cisco routers., Compatibility	
	Designed for Cisco ISR 4000 series and compatible platforms with the appropriate module slot.	
	Environmental	
35	CAT 6 LAN cable	
	Category: Cat 6 (Category 6)	
	Standard: Meets Cat 6 specifications for LAN cabling (TIA/EIA etc.), Bandwidth: Up to 250 MHz	
	Data Speeds: Up to 1 Gbps at 100 m, and up to 10 Gbps at shorter runs (~≤55 m)	
	Conductors: 4 pairs of 100% copper wires	
	Connector: RJ-45 plug (standard Ethernet)	
	Jacket Material: Durable PVC	
	Compatibility: Works with routers, switches, modems, gaming consoles, PCs, smart TVs	
36	5M FIBER PATCH CORD (LC-LC/MM/DX/3.0/50um/5M/OM3)	
	Connector Type: LC to LC	
	Fiber Type: Multimode (MM), Fiber Standard: OM3	
	Core/Cladding Diameter: 50/125 µm	
	Cable Type: Duplex (DX), Cable Length: 5 meters	
	Cable Diameter: 3.0 mm, Jacket Material: LSZH (Low Smoke Zero Halogen), Connector Polish: UPC	
	Color: Aqua (typical for OM3), Insertion Loss: ≤ 0.25 Db	
	Return Loss: ≥ 30–50 dB, Operating Temperature: -40 °C to +85 °C	
	Bandwidth Support: Up to 10/40/100 Gb Ethernet	
	depending on distance	

	Wavelength: 850 nm / 1300 nm	
37	Wireless Router	
	Device Interfaces, IEEE 802.11ac wireless LAN1	
	IEEE 802.11 a/b/g/n wireless LAN	
	10/100 fast Ethernet Internet port	
	Four 10/100 fast Ethernet LAN ports	
	Operating Frequency, 2.4 GHz band: 2400 - 2483.5 MHz	
	5 GHz band: 5150 - 5725 MHz	
	Security, WPA & WPA2 (Wi-Fi Protected Access)	
	WPS (Wi-Fi Protected Setup)	
	Advanced Features	
	Web setup wizard	
	DMZ (Demilitarized Zone)	
	Firewall - Network Address Translation (NAT)	
	Wireless Repeater	
	Dimensions	
	190 x 133 x 83 mm (7.48 x 5.24 x 3.27 inches)	
	Weight	
	228.6 grams (8.06 ounces)	
	Power	
	Input: 100 to 240 V AC, 50/60 Hz	
	Temperature	
	Operating: 0 to 40 °C (32 to 104 °F)	
	Storage: -20 to 65 °C (-4 to 149 °F)	
38	Media Converter - RJ45 Rate 10/100/1000base	
	Certification CE, ISO, RoHS	
	Mac Address 1K, Frame Buffer Memory 512kb RAM	
	Port Type 1 RJ45 to Sc	
	SFP Rate 1000base	
	Power Supply External	
	UTP Cable Cat6(≤100m)	
39	Cable Manager	
	Product Type: Single-Sided Manager	
	Body Material: ABS	
	Orientation: Horizontal	
	Cover Material: PVC	
	Finger Material: ABS	
	Number of Rack Units: 2	
	Environment: Indoor	
	Color: Black	
	Standards Met: RoHS Compliant, UL 2416, CSA C22.2	
40	PoE Injector	
	Input Voltage (AC): 100- 240Vac (nominal)	
	Input Frequency Range: 47 Hz(min) ~ 63 Hz(max)	
	Output Voltage (DC): 48 V	
	Output Rating: 0.5A (24W)	
	Operating Temperature: -10°C ~ +40°C	
	Storage Temperature: -30°C ~ +80°C	
	Operating Humidity: 10%~95% non-condensing	
	Storage Humidity: 10%~95% non-condensing	
	Weight: 90 g, Certification: CE	
41	Unmanaged PoE Switch 8-ports with 4 PoE+ ports	
	(first 1-4 ports) and dedicated PoE power budget of 50 W	
	Bandwidth: 16 Gbps (non-blocking)	
	Performance: Full line rate and forwarding rate of 64B	

	frame at 1.488 Mpps for 1000M port, 0.1488 Mpps for	
	100M port, 0.01488 Mpps for 10M port	
	Quality of Service: 802.1p and DSCP	
	Status LEDs: Link, speed, activity, and PoE indicators	
	Power Supply: External, 54 VDC, 1.2 A	
	Power Saving: Cable connected detection Sleep mode	
	Power Consumption in Idle/Use (100% Traffic):	
	3.83 W / 7.0 W	
42	Network 24-port Layer 2+ Enterprise PoE switch,	
	24x1GE RJ45 Ports, 4x2.5 GE SFP Ports, PoE/PoE+	
	Ports & Interfaces	
	24x10/100/1000 BASE-T RJ45 ports with PoE/PoE+	
	support (IEEE 802.3af/at) - PoE power supplied to	
	endpoints such as APs, VoIP phones, and cameras.	
	4xSFP ports, supporting 1G/2.5G uplinks for higher-speed	
	backbone connections.	
	Dedicated RJ45 console port and USB management port	
	(typical hardware console/USB for configs).	
	Switching Performance	
	Switching capacity: ~82Gbps (line-rate throughput).	
	Forwarding rate: ~61Mpps (million packets per second).	
	MAC address table: 16,000 entries (supports large device	
	tables).	
	IPv4/IPv6 unicast routes: Supports static routing entries	
	for basic L3 forwarding (64 each).	
	PoE/Power	
	PoE/PoE+ output: Supports standard PoE (802.3af) and	
	PoE+ (802.3at) on all 24 RJ45 ports.	
	Total PoE budget: Up to approx. 370W (typical total power	
	deliverable to all PoE ports) - actual depends on	
	deployment and power source.	
	Management & Features	
	Layer 2+ managed functions: VLAN (incl. 802.1Q), QoS,	
	ACLs, STP/RSTP, LACP, IGMP/MLD Snooping.	
	Security & authentication: 802.1X, RADIUS, TACACS+,	
	MAC filtering, DHCP Snooping.	
	Management interfaces: Web GUI, CLI, SNMP, and cloud-	
	based management with Ruijie Cloud/WIS for remote	
	monitoring and control.	
	Hardware & Physical	
	CPU: Single-core ~1.2 GHz processor.	
	Memory: 512 MB RAM, 64 MB flash.	
	Cooling: Dual fixed fans.	
	Rack-mountable: 1 RU metal chassis (19" rack	
	compatible).	
	Dimensions: ~ 440 x 220 x 43.6 mm.	
	Weight: ~ 2.5–2.8 kg.	
	Operating temp: 0°C to 45°C.	
	Humidity: 10% to 90%.	
	Terms and Conditions	
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	• Delivery: Delivery shall be completed within	
	forty-five (45) calendar days upon receipt of Purchase Order (PO)	
	and/or Notice to Proceed (NTP)	

[illegible]