Procuring Entity: **University of the Philipines Baguio**

Project Name: **Supply and Delivery of Various IT Equipment, Peripherals and Accessories (LOT 1, LOT 2 & LOT 3) TWO FAILED BIDDING**

Agency Estimate: **PhP 5,976,500.00**
Subject: **BILL OF QUANTIES**

Item#	Code	Requesting Office	Item Description	Technical Specifications		STATEMENT OF COMPLIANCE TO TECHNICAL SPECIFICATIONS		QTY	UOM	Unit Cost	Total Cost	QUOTED UNIT PRICE	TOTAL QUOTED PRICE
						YES	NO						
1	14572, 14585, 14445, 14485, 14820	Laptop, 15.6-in	Type	Sleek, Performance Laptop Profile				23	sets	73,000.00	1,679,000.00		
			Processor	at least 4C/8T or 6C/12T, 3-8MB cache, upto 3-4Ghz									
			Memory	at least 8-16GB DDR4									
			Storage	at least 512GB SSD M.2 PCIe 3.0 NVMe or 256GB SSD+1TB HDD									
			GPU	at least 4GB discrete GPU									
			Display	at least 15.6" LED IPS FullHD 1080p, 400-500nits									
			Camera	at least 720p-1080p HD									
			Speakers	at least stereo									
			Mic	at least mono or stereo									
			Network	at least RJ45 LAN, WiFi 6/b/g/n, BT									
			OS	at least licensed Windows 10 64-bit									
			Productivity	at least non-subscription, licensed Office 2019									
			Peripherals	at least backlit keyboard with multi-touch trackpad									
			Ports	at least USB 3.x, USB C, 3.5mm combo audio, HDMI out									
			Other	at least 24-36 months manufacturer's warranty, with Backpack									
2	14515	LAPTOP	Type	Essential Laptop Profile				2	sets	52,000.00	104,000.00		
			Processor	at least 2C/4T or 4C/4T, 3-4MB cache, upto 3-4Ghz									
			Memory	at least 8GB DDR4									
			Storage	at least 256GB SSD M.2 PCIe 3.0 NVMe or 240GB SSD+1TB HDD									
			GPU	at least 2GB discrete GPU or multi-pipeline (48-80EU) iGPU or multi-core iGPU									
			Display	at least 14" LED IPS FullHD 1080p, 220-400nits									
			Camera	at least VGA or 720p HD									
			Speakers	at least stereo									
			Mic	at least mono									
			Network	at least RJ45 LAN, WiFi b/g/n, BT									
			OS	at least licensed Windows 10 64-bit									
			Productivity	at least non-subscription, licensed Office 2019									
			Peripherals	at least backlit keyboard with multi-touch trackpad									
			Ports	at least USB 3.x, USB C, 3.5mm combo audio, HDMI out									
			Other	at least 24 months manufacturer's warranty, with Backpack									
3	14445, 14485	Desktop Computer	Type	All-In-One Desktop or Regular Desktop Profile				10	sets	59,000.00	590,000.00		
			Processor	at least 2C/4T or 4C/4T, 2-4MB cache, upto 3-4Ghz									
			Memory	at least 8GB DDR4									
			Storage	at least 512GB SSD M.2 2280 PCIe 3.0 NVMe or 256GB SSD+1TB HDD									
			GPU	at least multi-pipeline (48-80EU) or multi-core iGPU									
			Display	at least 21.5" LED IPS FullHD 1080p									
			Camera	at least 720p HD									
			Speakers	at least stereo									
			Mic	at least mono									
			Network	at least RJ45 LAN, WiFi b/g/n, BT									
			OS	at least licensed Windows 10 64-bit									
			Productivity	at least non-subscription, licensed Office 2019									
			Peripherals	at least USB wired Mouse, USB wired Keyboard									
			Ports	at least USB 3.x, USB 2.x, 3.5mm combo audio, HDMI out, card reader									
			UPS	at least 800VA, 220V with universal outlets									
			Other	at least 24 months manufacturers warranty									
4	14509	Laptop-13"	Type	Sleek, Performance Laptop Profile				2	units	93,000.00	186,000.00		
			Processor	at least M1 8C with 16C neural engine									
			Memory	at least 8GB unified									

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			Storage	at least 256GB SSD								
			GPU	at least 8C GPU								
			Display	at least 13.3" Retina LED IPS, 500 nits, 1600p								
			Camera	at least 720p HD								
			Speakers	at least stereo speakers with wide sound and ATMOS support								
			Mic	at least 3-mic array								
			Network	at least LAN, WiFi 6/a/b/g/n/ac, BT								
			OS	at least Mac OS 11.3								
			Productivity	at least non-subscription Office 2019								
			Peripherals	at least backlit Magic Keyboard with Force Touch trackpad, Touch Bar								
			Ports	at least USB 4.x, Thunderbolt, 3.5mm combo audio								
			Other	at least 12 months manufacturer's warranty								
5	14820	Laptop computer 16"	Type	Sleek, High-Performance Laptop Profile			1	set	167,000.00	167,000.00		
			Processor	at least i7 6C, upto 4.5Ghz, 12MB cache								
			Memory	at least 16GB unified								
			Storage	at least 512GB SSD								
			GPU	at least 4GB discrete GPU + UHD graphics								
			Display	at least 16" Retina LED IPS, 500 nits, 1920p								
			Camera	at least 720p HD								
			Speakers	at least hi-fi 6-speaker with force cancelling woofers								
			Mic	at least studio quality 3-mic array								
			Network	at least LAN, WiFi 6/a/b/g/n/ac, BT								
			OS	at least Mac OS 11.3								
			Productivity	at least non-subscription Office 2019								
			Peripherals	at least backlit Magic Keyboard with Force Touch trackpad, Touch Bar								
			Ports	at least USB 4.x, Thunderbolt, 3.5mm combo audio								
			Other	at least 12 months manufacturer's warranty								
6	14572, 14585	Desktop Computer	Type	All-In-One Desktop or High-Performance Desktop Profile			7	sets	80,000.00	560,000.00		
			Processor	at least 4C/4T, 4C/8T or 6C/6T, 4-8MB cache, upto 3-4Ghz								
			Memory	at least 8-16GB DDR4								
			Storage	at least 512GB SSD M.2 2280 PCIe 3.0 NVMe or 256GB SSD+1-2TB HDD								
			GPU	at least 2GB discrete GPU								
			Display	at least 23.8" LED IPS FullHD 1080p								
			Camera	at least 720p-1080p HD								
			Speakers	at least stereo								
			Mic	at least mono or stereo								
			Network	at least RJ45 LAN, WiFi b/g/n, BT								
			OS	at least licensed Windows 10 64-bit								
			Productivity	at least non-subscription, licensed Office 2019								
			Peripherals	at least USB wired Mouse, USB wired Keyboard								
			Ports	at least USB 3.x, USB 2.x, 3.5mm combo audio, HDMI out, HDMI in, card reader								
			UPS	at least 1000VA, 220V with universal outlets, UPS								
			Other	at least 24-36 months manufacturers warranty, NBD support								
7	14518, 14509	Desktop computer	Type	All-In-One, Sleek Desktop Profile			4	sets	95,000.00	380,000.00		
			Processor	at least M1 8C with 16C neural engine								
			Memory	at least 8GB unified								
			Storage	at least 256GB SSD								
			GPU	at least 7C GPU								
			Display	at least 23.5" 4.5K Retina, 500 nits, 2520p								
			Camera	at least 1080p HD								
			Speakers	at least hi-fi 6-speaker with force cancelling woofers								
			Mic	at least studio quality 3-mic array								
			Network	at least LAN, WiFi 6/a/b/g/n/ac, BT								
			OS	at least Mac OS 11.3								
			Productivity	at least non-subscription Office 2019								
			Peripherals	at least USB wired Mouse, USB wired Keyboard								

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			Ports	at least USB 4.x, USB 3.x, Thunderbolt, 3.5mm combo audio								
			UPS	at least 800VA, 220V with universal outlets								
			Other	at least 12 months manufacturers warranty								
8	14509, 14820	Desktop computer- 27"	Type	All-In-One, Sleek Desktop Profile			3	set	145,000.00	435,000.00		
			Processor	at least 6C, upto 4.8Ghz								
			Memory	at least 8GB								
			Storage	at least 512GB SSD								
			GPU	at least 4GB discrete GPU								
			Display	at least 27" 5K Retina, 500 nits, 2880p								
			Camera	at least 1080p HD								
			Speakers	at least hi-fi 6-speaker with force cancelling woofers								
			Mic	at least studio quality 3-mic array								
			Network	at least LAN, WiFi 6/a/b/g/n/ac, BT								
			OS	at least Mac OS 11.3								
			Productivity	at least non-subscription Office 2019								
			Peripherals	at least USB wired Mouse, USB wired Keyboard								
			Ports	at least USB 4.x, USB 3.x, Thunderbolt, 3.5mm combo audio								
			UPS	at least 1500VA, 220V with universal outlets								
9	14957	Desktop	Type	All-In-One Desktop or High-Performance Desktop Profile			6	set	105,000.00	630,000.00		
			Processor	at least 4C/8T, 6C/6T or 6C/12T, 6-10MB cache, upto 3-4.5Ghz								
			Memory	at least 16GB DDR4								
			Storage	at least 512-1024GB SSD M.2 2280 PCIe 3.0 NVMe+2-4TB HDD								
			GPU	at least 4-8GB discrete GPU								
			Display	at least 23.8"-27" LED IPS FullHD 1080p 144-165Hz								
			Camera	at least 720p-1080p HD								
			Speakers	at least stereo or dual-stereo								
			Mic	at least mono or stereo								
			Network	at least LAN, WiFi b/g/n, BT								
			OS	at least licensed Windows 10 64-bit								
			Productivity	at least non-subscription, licensed Office 2019								
			Peripherals	at least USB wired Mouse, USB wired Keyboard								
			Ports	at least USB 3.x, USB 2.x, 3.5mm combo audio, HDMI out, HDMI in, card reader								
			UPS	at least 1500VA, 220V with universal outlets								
			Other	at least 36 months manufacturers warranty, NBD support								
10	14820	AX3000 WiFi Router	Type	AX3000 Dual Band, Gigabit, 2T2R MU-MIMO, WiFi 6, OFDMA			6	units	8,000.00	48,000.00		
			LAN Ports	at least 4x RJ45 10/100/1000Mbps								
			WAN Ports	at least 1x RJ45 10/100/1000Mbps								
			WiFi	at least 802.11 b/g/n/a/ac/ax								
			Antennas	at least 4x external omni-directional, beam-forming, high-power FEM								
			Power Supply	at least 12V 2A, auto-voltage								
			Signal Rates	at least upto 2402Mbps (5Ghz), upto 574Mbps (2.4Ghz)								
			Firewall / Security	at least DoS, SPI, IP and MAC address binding, ALG								
			Wireless Security	at least WPA2 (PSK and enterprise)								
			WAN Types	at least Dynamic IP, Static IP, PPPoE, PPTP, L2TP								
			Management	at least with web-based Access Control, Local Management, Remote Management								
			Supported Protocols	at least IPv4 and IPv6, QoS								
			Guest Network	at least one each for 2.4Ghz and 5Ghz								
			Firmware	at least user upgradable, web interface								
			Other	at least 12 months manufacturers warranty, Dual-core CPU, LAG								
11	14445	Managed, 24 port Gigabit Switch		High quality, branded, Layer 2/3, Fully managed, 24 port Gigabit Switch, with 2 autosensing 10/100/1000 trunk ports, 2 fixed Gigabit Ethernet SFP ports			2	units	35,000.00	70,000.00		
12	14853	Wi-fi router - Network standard		IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac;			4	units	5,000.00	20,000.00		
				Coverage: large homes; Memory: 16MB flash 128 MB RAM								
13	14485	Projector, XGA	White Brightness	at least 4,000 ANSI Lumens			2	units	45,000.00	90,000.00		

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			Color Brightness	at least 4,000 Lumens CLO								
			Resolution	at least 1024x768								
			Aspect Ratio	at least 4:3 (XGA)								
			Contrast	at least 15,000:1 (full on/off)								
			Display Type	at least 2 cm 3LCD Chips								
			Color Processing	at least 10-bit								
			Video Modes	at least 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i								
			Data Modes	at least MAX 1600x1200								
			Lamp Type	at least 210W UHE bulb								
			Lamp Life	at least 6,000 hours / 12,000 hours (Eco)								
			Included Lens	at least 1.6x manual zoom , manual focus								
			Throw Distance	at least 1.4 m - 8.4 m Calculate Throw Distance								
			Image Size	at least 77 cm - 762 cm								
			Throw Ratio	at least 1.38:1 - 2.24:1 (D:W)								
			Digital Zoom	Yes								
			Projector Size	at least 10 cm x 31 cm x 29 cm (HxWxD)								
			Weight	at least 3.0 kg								
			Audible Noise	at least 37 dB / 28 dB (Eco)								
			Internal Speakers	at least 16.0 Watts Mono								
			Power	at least 326 Watts 100V - 240V								
14	14485	Printer, 3-in-1, PSC,	Type	All-in-One, Print, Scan, Copy, Fax, Color Inkjet w/ ADF, CISS			1	unit	17,000.00	17,000.00		
			Print Speed	at least upto 33ppm (black) / 15ppm (color) for Draft A4								
			Copy Speed	at least upto 7.7ipm (black) / 3.8ipm (color) for A4 Simplex Flatbed								
			Print Resolution	at least 5760 x 1440 dpi with variable-sized droplet technology								
			Nozzle Configuration	at least 180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow)								
			Display / Console	at least 1.44" Color LCD								
			Scanner Optical Resolution	at least 1200 x 2400 dpi, 48-bit color								
			Scanner Speed	at least 200dpi Black: 12 sec / 4.5 ipm, 200dpi Colour: 29 sec / 4.5 ipm								
			ADF Paper Capacity	at least 30 pages (A4), 10 pages (Legal)								
			Maximum Copy Resolution	at least 600 x 600 dpi								
			OS	at least compatible with Windows and Mac OS								
			Photo Printing	at least borderless upto 4R, 90s printout								
			Ink Tank System	at least spill-free and error-free refilling								
			Connectivity	at least USB 2.x, WiFi, WiFi Direct and LAN								
			Other	at least 12 months manufacturer's warranty								
15	14509	Extenal memory drive 10TB	Extenal memory drive 10TB USB3.0 (desktop external hard drive), at least 160MB/s data transfer, at least 2x front facing USB3.0 intelligent hub ports, at least 10TB capacity				4	pcs	15,000.00	60,000.00		
16	14518	DLP projector, HDMI cable	White Brightness	at least 4,000 ANSI Lumens			2	units	45,000.00	90,000.00		
			Color Brightness	at least 4,000 Lumens CLO								
			Resolution	at least 1024x768								
			Aspect Ratio	at least 4:3 (XGA)								
			Contrast	at least 15,000:1 (full on/off)								
			Display Type	at least 2 cm 3LCD Chips								
			Color Processing	at least 10-bit								
			Video Modes	at least 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i								
			Data Modes	at least MAX 1600x1200								
			Lamp Type	at least 210W UHE bulb								
			Lamp Life	at least 6,000 hours / 12,000 hours (Eco)								
			Included Lens	at least 1.6x manual zoom , manual focus								
			Throw Distance	at least 1.4 m - 8.4 m Calculate Throw Distance								
			Image Size	at least 77 cm - 762 cm								
			Throw Ratio	at least 1.38:1 - 2.24:1 (D:W)								
			Digital Zoom	Yes								
			Projector Size	at least 10 cm x 31 cm x 29 cm (HxWxD)								
			Weight	at least 3.0 kg								
			Audible Noise	at least 37 dB / 28 dB (Eco)								

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				Internal Speakers at least 16.0 Watts Mono Power at least 326 Watts 100V - 240V								
17	14853	Desktop speaker		TOTAL POWER OUTPUT:RMS 8W x 2 + 12W x 1			2	units	3,500.00	7,000.00		
				THD + N:10%								
				SNR:≥85dBA								
				DISTORTION:≤0.5%								
				INPUT SENSITIVITY:Satellites: 450mV ± 50mV								
				Subwoofer: 70mV ± 20mV								
				NPUT IMPEDANCE:10KΩ								
				SUBWOOFER / BASS UNIT:5 inch (131mm), Magnetically shielded, 4Ω								
				TWEETER UNIT:2¾ inch (70mm), Magnetically shielded, 4Ω								
				CONTROL PANEL:Bass trimmer, Power switch, FM tuner								
				DIMENSION:Satellites: 120mm × 151mm × 125mm								
				Subwoofer: 164mm × 220mm × 280mm (WxHxD)								
				WEIGHT:≈4.20Kg (net) / ≈5.20Kg (gross)								
18	14853	Headphones		Features: Adjustable Headband			2	units	3,000.00	6,000.00		
				Impedance: 21 Ohm								
				Sound Pressure Level: 100 dB								
				Minimum Frequency Response: 20 Hz								
				Maximum Frequency Response: 20 kHz								
19	14853	Microphone with stand		Transducer:Condenser Microphone			2	units	6,000.00	12,000.00		
				Use:Computer Microphone								
				Set Type:Multi-Microphone Kits								
				Polar Patterns:Cardioid								
				Communication:Wired								
				Package:Yes								
				Stype:Professional USB Microphone								
				Microphone-core:Dia.16mm Condenser								
				Frequency Response:20Hz-20kHz								
				Sampling Rate:192kHz/24bit								
				Sensitivity:-47dB~-29dB+/-3dB								
				Maximum SPL:125dB								
				USB Cable:USB A to B, 2.5M								
				Mute control:Touch panel								
				Monitor:Available								
				Microphone gain:Knob								
20	14853	Optical mouse		Connection modes: wired USB ;USB type: 3.0 compatibility: Windows XP/VISTA/7/8/10;			40	units	500.00	20,000.00		
				Macos: Yes;Features: 3 buttons including 2D non-slip scroll wheel; DPI: 1600								
21	14853	Printer,all in one A3 printer		Print method: PrecisionCore Print head; Maximum print resolution: 4800x1200 dpi;Copy			1	unit	50,000.00	50,000.00		
				resolution: 600x600 dpi								

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22	14853	RAM (Random Access	JEDEC standard 1.5v(1.425v~1.575v) power supply ; VDDQ :1.5v(1.425v~15.75v),			15	pcs	5,000.00	75,000.00		
			High quality (additional specs added)								
23	14853	Uninterruptible power supply	Type	High quality, Line-Interactive UPS with MPC, built-in AVR, universal outlets, LED display/indicators, audible alarm			25	units	6,500.00	162,500.00		
			Output capacity	at least 1500VA / 900W								
			Interface	at least six (6) universal outlets								
			Controller	at least Microprocessor based digital control								
			Display	at least LED display or LCD display								
			Regulation	at least with buck and boost voltage stabilizer								
			Input	at least with wide input voltage range (165-295V AC), frequency auto-sensing								
			Output	at least with wide output voltage range (200-240V AC), frequency auto-sensing								
			Battery	at least 2x 12V/8Ah, sealed, maintenance-free. 6-8Hr recharge								
			Protection	at least with built-in safety fuse or circuit breaker, over charge, over discharge, surge, short, overload protections								
			Other	at least with 12 months manufacturer's warranty								
24	14853	Webcam for Desktop	FHD 1080p USB with AF, UVC and low-light support at least 1080p FullHD native at least 30FPS 1080p, 30FPS 720p at least Glass with Auto Focus, Anti-Glare, optional privacy guard at least single, digital, high fidelity, noise reducing at least built-in USB 5VDC at least 75 degrees at least USB-A 2.0 High-Speed, tripod compatible, hook base at least MJPEG YUY2 at least works with Windows 8/10, MacOS, Linux at least 12 months manufacturers warranty			2	units	4,500.00	9,000.00		
25	14957	Scanner Type: Overhead,	Scanner Type: Overhead, Simplex			6	units	55,000.00	330,000.00		
			Scanning modes: Color, Grayscale, Monochrome, Automatic (Color/Grayscale/Monochrome detection) Image Sensor: Lens reduction optics/Color CCD x 1 Light Source: White Led + Lens illumination x 2 Optical Resolution: 285 to 218 dpi (Horizontal Scanning) 283 to 152 dpi (Vertical scanning) Document Size: Maximum: 432 x 300 mm (17.0 x 11.8 in.) Minimum: 25.4 x 25.4mm (1x1 in.)(4) Document Thickness: 30mm (1.18 in.) or less Interface: USB 2.0 / USB 1.1 (Connector type: Type-B) Image Processing Function: Deskew by text on document, Auto paper size detection, Auto image rotation, auto color detection, Book image correction (7), Multiple document documentation (8) Magnification in vertical Scanning (length): +- 1.5% Scanning Speed: 3 seconds per page								
26	14853	Audio controller - Cool LED	Appearance: Cool LED breathing lamp			2	units	7,000.00	14,000.00		
			Accompaniment: Bluetooth wireless accompaniment All-in-One: Works as a USB sound card plus mixing station. Easy-to-use: Setup and start podcasting or live streaming in no time. Mixing Station: Two mic inputs, One Accompaniment input, and real-time monitoring								

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				Special Effects: Eight Built-in special audio effects and various								
				adjustments available for your creation								
				Multiple Outputs: Output up to three devices simultaneously. Give you more possibilities								
27	14957	Inkjet Printer, Type: All-in-one	Type	All-in-One, Print, Scan, Copy, Fax, Color Inkjet w/ ADF, CISS			4	set	23,000.00	92,000.00		
			Print Speed	at least upto 33ppm (black) / 20ppm (color) for Draft A4								
			Copy Speed	at least upto 11ipm (black) / 5.5ipm (color) for A4 Simplex								
			Print Resolution	at least 4800 x 1200 dpi with variable-sized droplet technology								
			Nozzle Configuration	at least 400 nozzles Black, 128 nozzles per colour (Cyan, Magenta, Yellow)								
			Display / Console	at least 2.4" Color LCD Touch Panel								
			Scanner Optical Resol	at least 1200 x 2400 dpi, 48-bit color								
			Scanner Speed	at least 200dpi Black: 12 sec / 5 ipm, 200dpi Colour: 27 sec / 5 ipm								
			ADF Paper Capacity	at least 30 pages (A4), 10 pages (Legal)								
			Maximum Copy Resol	at least 600 x 1200 dpi								
			OS	at least compatible with Windows and Mac OS								
			Photo Printing	at least borderless upto A4, 92s printout								
			Ink Tank System	at least spill-free and error-free refilling								
			Connectivity	at least USB 2.x, WiFi, WiFi Direct and LAN								
			Other	at least 12 months manufacturer's warranty								
28	14853	Computer /Office Chair	Dimension: W76xD58XH110-115cm; Color: Black ; metal : chrome				2	units	9,000.00	18,000.00		
29	14957	Microsoft Office 2019	Microsoft Office 2019				10	pc	5,500.00	55,000.00		
TOTAL:												

NAME OF COMPANY/BIDDER: _____

NAME OF REPRESENTATIVE: _____

SIGNATURE OF REPRESENTATIVE: _____

DATE: _____