

Section VII. Technical Specifications

Bidders must state “**Comply**” in the column “**Statement of Compliance**” against each of the individual parameters of each “Specifications.”

Lot 1: Supply and Delivery of various ICT Equipment [Procurement/Contract No. 2024-05-086A] (Second Round)		
Description	QTY	Statement of Compliance
<p align="center">TECHNICAL SPECIFICATIONS</p> <p>Biometric Device with Integration of access door, latest and brand new Complies with the following minimum requirements: Screen Size: 2.4-inch LCD-TFT display screen 1 loudspeaker, 1 buzzer Wired Network:TCP/IP, 100Mbps Communication Protocol:TCP/IP, ISUP Network Interface:1 Lock Control:1 Exit Button:1 Door Contact Input:1 USB:1 Card Capacity:1000 Fingerprint Capacity:1000 Event Capacity:100,000 Authentication Card Type:M1 card Card Reading Distance:0 to 5 cm Fingerprint Module: Optical fingerprint module Fingerprint Comparing Mode:1:1 and 1:N Fingerprint Recognition Duration: < 1 s Installation Materials: Electronic drop bolt lock Power supply with back up battery Touchless exit button switch Delivery, Installation, Commissioning and Integration: Labor works and services for 3 door access control with electronic drop bolt lock <i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>	3 units	

<p>Biometric Device, latest and brand new</p> <p><i>Complies with the following minimum requirements:</i></p> <p>Biometric: Fingerprint</p> <p>RF Optional: 125kHz EM / 13.56MHz IC</p> <p>Max User(1:N): 10,000</p> <p>Max Fingerprint (1:N): 3,000 standard / 10,000 Optional</p> <p>Max Record: 100,000</p> <p>TCP/IP: 10/100 M</p> <p>PoE: 802.3 at 28W</p> <p>Wi-Fi: 802.11 B/G/N</p> <p>USB: USB 2.0 (Host)</p> <p>RS232 : 1 port for external printer</p> <p>LCD : 3.0"Color LCD</p> <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>	2 units	
<p>IP-PBX Phone, latest and brand new</p> <p><i>Complies with the following minimum requirements:</i></p> <p>Audio Features</p> <ul style="list-style-type: none"> • HD voice: HD handset, HD speaker • Smart Noise Filtering • Narrowband codec: PCMU (G.711A), PCMA (G.711μ), G.723.1, G.729, G.729A, G.729B , G.729AB, G.726, Ilbc • DTMF: In-band, Out-of-band (RFC 2833) and SIP <p>Phone Features</p> <ul style="list-style-type: none"> • 4 VoIP accounts • Call hold, mute, DND • Local 5-way conferencing • Direct IP call without SIP proxy Directory • Local phonebook up to 1000 entries • Call history: dialed/received/missed/forwarded 	20 units	

<p>IP-PBX Features</p> <ul style="list-style-type: none"> • Busy Lamp Field (BLF), Bridged Line Appearance (BLA) • Centralized call recording <p>Display and Indicator</p> <p>2.4" 320 x 240-pixel color display with backlight</p> <ul style="list-style-type: none"> • 16 bit depth color • LED for call and message waiting indication • Dual-color (red or green) illuminated LEDs for line status information • Caller ID with name and number <p>Feature keys</p> <ul style="list-style-type: none"> • 4 line keys with LED • 4 line keys can be programmed up to 12 paper-less DSS keys (4-page view) Interface • Dual-port Gigabit Ethernet • Power over Ethernet (IEEE 802.3af), class 1* • 1 x RJ9 (4P4C) handset port • 1 x RJ9 (4P4C) headset port <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>		
<p>IP Camera, latest and brand new</p> <p><i>Complies with the following minimum requirements:</i></p> <p>Camera Sensor: 1/2.7", 2.0 megapixe+F74:F104I, progressive scan, CMOS Minimum Illumination: Colour: 0.003 lux (F1.6, AGC ON) 0 lux with IR on Day/Night: IR-cut filter with auto switch (ICR) Shutter: Auto/Manual, shutter time: 1 ~ 1/100000s Adjustment angle:Pan: 3° ~ 360°, Tilt: 0° ~ 70°, Rotate: 3° ~ 360° WDR:120dB Lens Lens:2.8 ~ 12mm, AF automatic focusing and motorized zoom lens</p>	30 units	

<p>Iris: Fixed</p> <p>Field of View (H): 103.6°~33.4°</p> <p>Field of View (V): 54.8°~18.7°</p> <p>Field of View (D): 107.9°~37.8°</p> <p>Video</p> <p>Video Compression: Ultra 265, H.265, H.264, MJPEG H.264 code profile: Baseline profile, Main profile, High profile</p> <p>Frame Rate: Main Stream: 2MP (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;</p> <p>Video Bit Rate:128 Kbps~6 Mbps</p> <p>U-code:Support</p> <p>OSD: Up to 4 OSDs</p> <p>Privacy Mask: Up to 4 areas</p> <p>ROI: Up to 8 areas</p> <p>Video Stream: Dual streams</p> <p>Image</p> <p>White Balance: Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/ Auto2</p> <p>Digital Noise: Reduction 2D/3D DNR</p> <p>Smart IR: Support</p> <p>Flip: Normal/Vertical/Horizontal/180°/90°Clockwise/90° Anti-clockwise</p> <p>HLC: Support</p> <p>BLC: Support</p> <p>Defog: Digital Defog</p> <p>IP camera must be compatible with the existing Network Video Recorder (Uniview NVR516 Series)</p> <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>		
<p>ACCESS POINTS, latest and brand new</p>	<p>4 units</p>	

<p><i>Complies with the following minimum requirements:</i></p> <p>Wi-Fi Standards</p> <ul style="list-style-type: none"> · IEEE 802.11a/b/g/n/ac wave 2 <p>Supported Rates</p> <ul style="list-style-type: none"> · 802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS = 1 to 2 for VHT20/40/80) · 802.11n: 6.5 Mbps to 300Mbps (MCS0 to MCS15) · 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6Mbps · 802.11b: 11, 5.5, 2 and 1 Mbps <p>Supported Channels</p> <ul style="list-style-type: none"> · 2.4GHz: 1-13 · 5GHz: 36-64, 100-144, 149-165 <p>MIMO</p> <ul style="list-style-type: none"> · 2x2 SU-MIMO · 2x2 MU-MIMO <p>Spatial Streams</p> <ul style="list-style-type: none"> · 2 SU-MIMO · 2 MU-MIMO <p>Radio Chains and Streams · 2x2:2</p> <p>Channelization · 20, 40, 80MHz</p> <p>Security</p> <ul style="list-style-type: none"> · WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i, Dynamic PSK · WIPS/WIDS <p>Antenna Type</p> <ul style="list-style-type: none"> · Adaptive antenna that provides up to 64 unique antenna patterns per band <p>PERFORMANCE AND CAPACITY</p> <p>Peak PHY Rates</p> <ul style="list-style-type: none"> · 2.4GHz: 300Mbps · 5 GHz: 867Mbps <p>Client Capacity · Up to 256 clients per AP</p> <p>SSID · Up to 16 per AP</p>		
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<p>NETWORKING</p> <p>Controller Platform Support</p> <ul style="list-style-type: none"> · Cloud · Standalone <p>VLAN</p> <ul style="list-style-type: none"> · 802.1Q (1 per BSSID or dynamic per use based on RADIUS) · VLAN Pooling <p>PHYSICAL INTERFACES</p> <p>Ethernet · 1 x 1GbE port, RJ-45</p> <p>Secure Mounting Bracket</p> <p>with 4 Wireless Controller Single AP Licenses</p> <p>Access Point must be compatible with the existing Wireless Controller (Zone Director 1200)</p> <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>		
<p>Network Video Recorder (NVR), latest and brand new</p> <p><i>Complies with the following minimum requirements:</i></p> <p>Network Video Recorder</p> <p>Support Ultra 265/H.265/H.264 video formats</p> <p>64 channel input</p> <p>Support mainstream cameras of ONVIF conformance(Profile S, Profile G, Profile T) and RTSP protocols</p> <p>Support 2 HDMI and 2 VGA. VGA1 and HDMI1 simultaneous output, VGA2 and HDMI2 simultaneous output. VGA1/HDMI1 and VGA2/HDMI2 independent output</p> <p>Up to 32 Megapixels resolution recording</p> <p>Audio Compression: G.711A,G.711U</p> <p>Hard Disk: 4 pcs 10TB Hard Drive, 3.5", 6Gb/s SATA, 256MB Buffer</p> <p>SATA: 8 SATA Interfaces</p>	1 unit	

<p>Capacity: Up to 16TB for each HDD</p> <p>Disk Group: Support</p> <p>Redundant Storage: Support</p> <p>Disk Array Type RAID: 0,1,5,6,10</p> <p>Hot Swap: Support</p> <p>Network Interface:2 RJ45 10M/100M/1000M self-adaptive Ethernet Interface</p> <p>USB: Front panel: 2 x USB2.0;Rear panel: 2 x USB3.0</p> <p>RS485:1</p> <p>RS232:1</p> <p>Redundant power supply</p> <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>		
<p>ID Card Printer, latest and brand new</p> <p><i>Complies with the following minimum requirements:</i></p> <p>Print Type:Dye-Sublimation</p> <p>Print Area:Edge To Edge</p> <p>Resolution:300 dpi</p> <p>CARD</p> <p>Card Feeding:Automatic</p> <p>Card Size:ISO CR-80 (54mm x 86mm/2.12" x 3.38")</p> <p>Card Thickness:0.38mm (15mil) - 1.0mm (40mil)</p> <p>Card Type:PVC, Composite PVC, PET</p> <p>Monochrome:5 sec. (720 cards/hour)</p> <p>YMCKO:17 sec. (212 cards/hour)</p> <p>YMCKOK:22 sec. (164 cards/hour)</p> <p>CAPACITY</p> <p>Input Hopper:100 cards/200 Cards with cover open</p>	1 unit	

<p>Output Hopper:Front: 40 cards/Rear: 100 Cards (Optional Rear-side Slacker)</p> <p>SYSTEM</p> <p>Memory:64 MB RAM</p> <p>Control Panel:2 Lines LCD Display/2 LED Buttons</p> <p>Operating System Compatibility: Windows ,Mac OS</p> <p>Communications: USB 2.0 with optional Ethernet</p> <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>		
<p>Hard Disk Drive, latest and brand new</p> <p><i>Complies with the following minimum requirements:</i></p> <p>Storage Capacity: 10 TB</p> <p>Recording Technology: Conventional Magnetic Recording (CMR)</p> <p>Drive Performance</p> <p>Spindle Speed (rpm): 7200</p> <p>Buffer: 256 MB</p> <p>Drive Interface: SATA</p> <p>Drive Interface Standard: SATA/600</p> <p>Physical Characteristics</p> <p>Drive Type: Internal</p> <p>Form Factor: 3.5</p> <p><i>Warranty: At least one (1) year warranty, including technical support and hardware replacement services.</i></p>	2 units	

Conforme:

Full Name and Signature of Bidder/Authorized Rep : _____
 Designation : _____
 Name of Company : _____

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Lot 3: Supply and Delivery of Video, Audio and Sound System Equipment [Procurement/Contract No. 2024-05-086C] (Second Round)		
Description	QTY	Statement of Compliance
Desktop Microphone and Webcam Max Resolution: 720p/30fps Camera mega pixel: 0.9 Focus type: fixed focus Lens type: plastic Built-in mic: Mono Mic range: Up to 1 m Diagonal field of view (dFoV): 55° Universal mounting clip fits laptops, LCD or monitors	12 units	
Wireless/Bluetooth Mouse USB 2.4 GHz wireless Wireless range 10m Battery 1 x AA Min-Max DPI 1000± Sensor technology optical sensor (Compatible with any brand and OS)	20 units	
Mini Displayport Adapter/Converter Mini Displayport to Type-C, HDMI, VGA or DVI converter Warranty: At least one (1) year warranty,	5 units	
Adapter/Converter Type C USB-C Digital AV Multiport Adapter to Type-C, HDMI, USB	5 units	
External Hard Drive (5TB) Compatible with Windows, macOS and Chrome OS systems. Color: Black Texture: Polished Aluminum Compatibility: USB 2.0/3.0 Storage Capacity: 5TB Warranty: At least one (1) year warranty,		

<p>Portable SSD (2TB) Capacity 2TB Interface USB 3.2 Gen.2 (10Gbps) Transfer Speed Sequential Read: Up to 1,050MB/s, Sequential Write: Up to 1,000 MB/s (Performance may vary depending on system environment even with USB 3.2 interface with supporting UASP) Warranty: At least one (1) year warranty,</p>	25 units	
<p>Flashdrive 32GB capacity USB 3.2 Warranty: At least one (1) year warranty,</p>	500 pcs	
<p>SD Card (128GB) Compatible with all microSDHC, microSDXC supporting host devices</p>	20 pcs	
<p>Document Shredders Paper Shredder, Heavy-Duty Brand new Energy-saving technology Able to shred, staple wires, clips, IDs, and CDs At least Basket volume: 22L Universal wheels for easy movement Shred type: Crosscut With one (1) year warranty</p>	3 units	
<p>Screen projector 6ft x 6ft, 70 x 70 Inches (6 x 6 ft.) Smooth screen and White surface Reliable Locking System with auto-fixed function Provide clear and vivid picture Warranty: At least one (1) year warranty,</p>	1 unit	
<p>Led Projector Resolution: Full HD 1080p Brightness: 1000 lm Contrast ratio: 2500000:1 Focus: Manual Sound: Mono 1.5W 2 way Lamp hours: Laser Diode, 20000 hours Warranty: At least one (1) year warranty,</p>	1 units	
<p>Freestyle Smart Projector Complies with the following minimum requirements: Set Weight: 0.8kg Package Weight: 1.4 kg Dimension (W x H x D)</p>	2 units	

Set Size: 10.24 x 17.28 x 9.52 cm Package Size: 14 x 24.3 x 13.7 cm Product Type: Projector Screen Size 30" – 100" Resolution 1920 x 1080 (Full HD) Series 3 Connectivity 1 x HDMI (Micro / eARC) Light Source Life 20,000 hours HDR Playback HDR10 Brightness (LED Lumen) 550 LED Lumen (peak) Processor Crystal Engine Audio Digital Plus Premium 360° Sound Warranty: At least one (1) year warranty,		
Presentation Remote (R400 Wireless) Wireless Laser Pointer with Slide Changer	6 units	
Spotlight Presentation Remote Red Laser Pointer Battery Details: AA/ AAA Batteries or Rechargeable Lithium Polymer, 85 Connection Type: Bluetooth Low Energy and 2.4 GHz wireless connection Wireless range: approx 10-20 m operating range	1 unit	
Powerbank 10K/20K MAH Type-C port USB port	3 units	

Conforme:

Full Name and Signature of : _____
Bidder/Authorized Rep : _____
Designation : _____
Name of Company : _____