Section VII. Technical Specifications

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

Item No.	Description	Quantity	Statement of Compliance
	SUPPLY AND DELIVERY OF ICT EQUIPMENT FOR THE PRESIDENTIAL COMMUNICATIONS OFFICE [PROCUREMENT/CONTRACT NO. 2024-09-212]		
1	**Network Video Recorder (NVR), latest and brand new** **Complies with the following minimum requirements:** • Network Video Recorder • Support Ultra 265/H.265/H.264 video formats • 128 channel input • Support mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T) and RTSP protocols • Support 2 HDMI and 2 VGA. VGA1 and HDMI1 simultaneous output, VGA2 and HDMI2 simultaneous output. VGA1/HDMI1 and VGA2/HDMI2 independent output • Up to 32 Megapixels resolution recording • Audio Compression: G.711A,G.711U • Hard Disk: 8 pcs 10TB Hard Drive, 3.5", 6Gb/s SATA, 256MB Buffer • SATA: 8 SATA Interfaces • Capacity: Up to 16TB for each HDD • Disk Group: Support • Redundant Storage: Support • Disk Array Type RAID: 0,1,5,6,10 • Hot Swap: Support • Network Interface:2 RJ45 10M/100M/1000M self-adaptive Ethernet Interface • USB: Front panel: 2 x USB2.0; Rear panel: 2 x USB3.0 • RS485:1 • RS232:1 • Redundant power supply	1	

Item No.	Description	Quantity	Statement of Compliance
	• Network Video Recorder (NVR) must be compatible with the existing CCTV cameras *Warranty: At least one (1) year warranty, including technical support and hardware replacement services.*		

2	**ACCESS POINTS, latest and brand new**
	
	Complies with the following minimum requirements:
	
	• Wi-Fi Standards
	• IEEE 802.11a/b/g/n/ac wave 2
	• Supported Rates
	    a. 802.11ac: 6.5 to 867Mbps (MCS0 to MCS9, NSS = 1 to 2 for VHT20/40/80)
	    b. 802.11n: 6.5 Mbps to 300Mbps (MCS0 to MCS15)
	    c. 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6Mbps
	    d. 802.11b: 11, 5.5, 2 and 1 Mbps
	• Supported Channels
	    a. 2.4GHz: 1-13
	    b. 5GHz: 36-64, 100-144, 149-165
	• MIMO
	    a. 2x2 SU-MIMO
	    b. 2x2 MU-MIMO
	• Spatial Streams
	    a. 2 SU-MIMO
	    b. 2 MU-MIMO
	• Radio Chains and Streams · 2x2:2
	• Channelization · 20, 40, 80MHz
	• Security
	  WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i, Dynamic PSK WIPS/WIDS
	• Antenna Type
	  Adaptive antenna that provides up to 64 unique antenna patterns per band
	• PERFORMANCE AND CAPACITY
	• Peak PHY Rates
	    a. 2.4GHz: 300Mbps
	    b. 5 GHz: 867Mbps
		4	

	• Client Capacity · Up to 256 clients per AP		
	• SSID · Up to 16 per AP		
	• NETWORKING		
	• Controller Platform Support		
	a. Cloud		
	b. Standalone		
	• VLAN 802.1Q (1 per BSSID or dynamic per use based on RADIUS		
	• VLAN Pooling		
	• PHYSICAL INTERFACES		
	• Ethernet · 1 x 1GbE port, RJ-45		
	• Secure Mounting Bracket with 4 Wireless Controller Single AP Licenses		
	• Access Point must be compatible with the existing Wireless		
	• Controller (Zone Director 1200)		
	Warranty: At least one (1) year warranty, including technical support and hardware replacement services.		
Item No.	**Description**	**Quantity**	**Statement of Compliance**
3	**Rackmount Server, latest and brand new** **Complies with the following minimum requirements:** • Processor: 2.4GHz 16-core 135W Processor for Server • 24 MB Cache • 128GB(4x32GB) Dual Rank x4 DDR4-3200 • 16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel • Memory speed supports up to 3200 MT/s • Ethernet 10Gb 2-port SFP+ OCP3 Adapter for Server • 4GB with Smart Storage Battery • 2U 8SFF x1 Tri-Mode 24G U.3 BC Front Drive Cage Kit • 3 PCIe: x8/x16/x8 • 2x 800W Hot Plug Power Supply • Server deployment tool embedded • 2U Rack	1	

	• 2U Small Form Factor Easy Install Rail Kit • 10GbE 2p BASE-T Adapter • 2 x 2.4TB SAS 10K SFF Hard Disk Drive *Warranty:* *3-year parts, 3-year labor, 3-year onsite support with next business day response.*		
Item No.	**Description**	**Quantity**	**Statement of Compliance**

4	**5kVA Uninterruptible Power Supply, latest and brand new**
	
	Complies with the following minimum requirements:
	
	• Main Input Voltage: 230 V
	• Other Input Voltage:220 V, 240 V
	• Main Output Voltage 230 V
	• Other Output Voltage 220 V, 240 V
	• Rated power in W: 4500 W
	• Rated power in VA: 5000 VA
	• Battery type: Lead-acid battery
	• Number of batteries filled slots: 2
	• Battery recharge time: 1.5 h
	• Battery voltage: 192 V
	• Battery charger power: 560 W rated
	• Battery life: 3 to 5 years
	• Input:
	Network frequency: 40...70 Hz auto-sensing
	• Number of input connectors:
	1 hard wire 3-wire (1P + N + E)
	• Input voltage limits: 100...275 V adjustable (half load)
	• Output:
	   a. Maximum configurable power in VA:5000 VA
	   b. Maximum configurable power in W: 4500 W
	• Output frequency: 50/60 Hz +/- 3 Hz sync to mains
	• Wave type: Sine wave
	• Harmonic distortion: Less than 2 %
	• Crest factor: 3:1
	• Bypass type: Internal bypass (automatic and manual)
		1	

| | | • Product certifications: CE, EAC, IRAM, RCM, VDE
• UPS 19" Rail Kit for UPS 5kVA
• Warranty and General Requirements:
   a. 3 Years Warranty
   b. Bidder should have certification from the Manufacturer
   c. for the product as part of the post qualification
   d. Bidder should provide Warranty Certificate for the
   e. product as part of the post qualification
   f. Bidder should be an authorized partner for the product | | |

Conforme:

Full Name and Signature of
Bidder/Authorized Rep

                        :

Designation   :

Name of Company   :