

Minimum Specification

Manageable Network Switch 16 port (for ground, 2nd, and 3rd floor- refer to annex 1,3 &4)

Quantity: 3

Minimum requirements:

Ports	10/100/1000BASE-T ports 16
Power	AC: 100-240V
Other requirements	Minimum 1 year warranty and Hardware support.

Manageable Network Switch 12 port (for Projector room and 1st floor- refer to annex 2)

Quantity: 2

Minimum requirements:

Ports	1000Base-T Interface 12
Power	AC: 100-240V
Other requirements	Minimum 1 year warranty and Hardware support.

Manageable Network Switch 24 port (for 2nd floor- refer to annex 3)

Quantity: 1

Minimum requirements:

Ports	10/100/1000BASE-T ports 24
Power	AC: 100-240V
Other requirements	Minimum 1 year warranty and Hardware support.

2. Unified Threat Management

Quantity: 2

Minimum requirements:

Features	Customizable internet threat filtration and traffic identification for enhanced network security
	Bluetooth-powered setup via Network web application or mobile app
	1U-sized, rack-mountable
	Integrated security gateway and NVR that supports compatible 3.5” HDDs
	128 GB integrated storage
Software setup	Firewall software must be set up at this office (online or physically)
Other requirements	Minimum 1 year warranty and Hardware support.

Wi-Fi Access point

Quantity: 11

Minimum requirements:

Ports	GbE RJ45 port	1
Features	802.3ac Wave 1 Wi-Fi technology	
	5 GHz band with 867 Mbps throughput rate	
	2.4 GHz band with a 450 Mbps throughput rate	
	Signal transmission up to 183 meters (600 feet)	
	Powered by 802.3at PoE* or 24V passive PoE	
Other requirements	Minimum 1 year warranty and Hardware support.	

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Network Attached Storage (NAS)

Quantity: 1

Minimum requirements: **Synology – RS2421RP+**

Occupied rack space	Less than 12 inch deep maximum 2U
Installed Storage	30TB with redundancy capabilities
Storage hard type	SSD 4T × 15
RAM	4GB
Other requirements	Minimum 1 year warranty and Hardware support.

Server

Quantity: 1

Minimum requirements: **Domain Controller / Office DMS**

Type	Rackmount Server
Processor	10 th Generation Intel Core processor or latest
Compatible Storage	8TB
Installed Storage	4TB
Storage hard type	SSD
RAM	64GB
Other requirements	Minimum 2-year warranty and hardware support
Power Supply	2 x 430W Redundant hot-swap Power Supply
NIC	2 x 2.5 Giabit Ports
PCI Slots	8 PCIe 3.0 slots
Remote	iDRAC8 or iDRAC9 with Lifecycle Controller
Optical Media	DVD ROM
Other requirements	Minimum 1 year warranty and Hardware support.

