Technical Specifications

Item	Specification	Statement of Compliance	Annex
[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 Bidder's 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 applicable laws and issuances.]			
1	**CCTV-NVR 64 channel** *- Video & Audio input 64 CCTV-IP cameras.* *Support 4megapixels up to the highest.* *Support third-party network ONVIF and listed functions of IP cameras.* *Support Video & Audio input output mode, Alarm In/Out, & Audio Compression.* *- Decoding Format: H.265/H.265+, H.264/H.264+, & MPEG4.* *- Recording Resolution: 4MP up to highest.* *Support dual-stream recording.* *- Decoding Capability: up to 16-ch@1080 (30fps) or more @ 4MP up to highest.* *- Synchronous Playback: 1-16-channel or more.* *- Stream Type: Video & Audio, Support Audio Compression.* *- Access Network: 2 input RJ-45, LAN1 and LAN2 at 10/100/1000 Mbps self-adaptive Ethernet interfaces.* *Support Multiple Remote Connections 5 up and to more.* *Support Protocols TCP/IP, DHCP, IPV4, IPV6, HTTP, & HTTPS.* *Support Security Password Protection, & Web Browsers.* *- Serial Interfaces: 1 RS-485 (half-duplex), 1RS-232 (optional)* *- Storages SATA: 4 SATA interfaces or more. Support up to 16 TB capacity for each HDD or higher.* *With inserted & installed Surveillance Hard disk 4-units by 10-Terabytes each disk total to 40-Terabytes.* *- USB Interface: 2 ports or more.* *With attached and supply ready to use USB mouse and USB keyboard.* *- HDMI/ VGA or DVI Output: Support 1024X768/60Hz up to higher and simultaneous output or more.* *With attached and supply ready to use commercial 32" LED Monitor or TV Monitor.* *- NVR Chassis: To be Rack-Mounted on standard Data cabinet.* *- NVR & Monitor Power Supply: Input 100 to 220/240 VAC (auto volt).*		

	With attached and supply ready to use Mini UPS at 6 output/outlet 220-240Vac, 50/60Hz 1000VA/600W or equivalent. *Complete Product Packages and Accessories.* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
2	**CCTV-NVR 32 channel** *- Video & Audio input 32 CCTV-IP cameras.* *Support 4megapixels up to the highest.* *Support third-party network ONVIF and listed functions of IP cameras.* *Support Video & Audio input output mode, Alarm In/Out, & Audio Compression.* *- Decoding Format: H.265/H.265+, H.264/H.264+, & MPEG4.* *- Recording Resolution: 4MP up to highest.* *Support dual-stream recording.* *- Decoding Capability: up to 16-ch@1080 (30fps) or more @ 4MP up to highest.* *- Synchronous Playback: 1-16-channel or more.* *- Stream Type: Video & Audio, Support Audio Compression.* *- Access Network: 2 input RJ-45, LAN1 and LAN2 at 10/100/1000 Mbps self-adaptive Ethernet interfaces.* *Support Multiple Remote Connections 5 up and to more.* *Support Protocols TCP/IP, DHCP, IPV4, IPV6, HTTP, & HTTPS.* *Support Security Password Protection, & Web Browsers.* *- Serial Interfaces: 1 RS-485 (half-duplex), 1RS-232 (optional)* *- Storages SATA: 4 SATA interfaces or more. Support up to 16 TB capacity for each HDD or higher.* *With inserted & installed Surveillance Hard disk 4-units by 10-Terabytes each disk total to 40-Terabytes.* *- USB Interface: 2 ports or more.* *With attached and supply ready to use USB mouse and USB keyboard.* *- HDMI/ VGA or DVI Output: Support 1024X768/60Hz up to higher and simultaneous output or more.* *With attached and supply ready to use commercial 32" LED Monitor or TV Monitor.* *- NVR Chassis: To be Rack-Mounted on standard Data cabinet.* *- NVR & Monitor Power Supply: Input 100 to 220/240 VAC (auto volt).* *With attached and supply ready to use Mini UPS at 6 output/outlet 220-240Vac, 50/60Hz 1000VA/600W or equivalent.* *- Complete Product Packages and Accessories.* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		

3	**CCTV-IP Camera PoE 4MP Mini bullet indoor/outdoor** *- Appearance: Mini Bullet Indoor/Outdoor.* *- Camera body & Junction Material: Metal or Aluminum from the Manufacturer or equivalent.* *- Resolution: 4 Mega Pixels* *Support the features and listed functions of CCTV IP cameras and NVRs.* *With Built-In Microphone and On-Board Storages microSD and others, support up to 512GB or higher.* *- Network: 1 RJ-45 10/100 Mbps self-adaptive Ethernet interfaces.* *Support Multiple Remote Connections User/Host* *Support Protocols TCP/IP, DHCP, IPV4, IPV6, HTTP, & HTTPS.* *Support third party ONVIF.* *Support Security Password Protection.* *Support Web Browser* *Power Supply: RJ45 POE and separate 12VDC input plug (spare).* *x Support One-key reset.* *Support On-board button reset.* *- Video & Audio storages: NVR.* *- Protection Level: IP67 or Highest.* *- Complete Product Packages and Accessories* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
4	**POE Switch Gigabit 24-ports with 4-SFP slots and 2 slots RJ45 uplink.** *- Supports IEEE802.3af, IEEE802.3at compliant and more others Supports visualized management and remote maintenance with Hierarchical user security protection.* *- Supports web, and network management software based on SNMP.* *- Supports automatic network topology generation and network redundancy application.* *- Support Auto Negotiation MDI/MDIX.* *- Supports long distance power supply and POE protocols, power management policy.* *- All POE 24 ports Gigabit, 4-SFP slots, 2 slots RJ45 uplink or equivalent.* *- To be installed in the Data Cabinet Standard Rack.* *- Complete Product Packages and Accessories* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
5	**Bi-directional Transceivers 1-pair** *- 1.25 Gbps or Higher-ups SFP Bi-Di Transceivers* *- Support up to 10KM or higher, Support IEEE 802.3ab.*		

	Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
6	**UTP CAT6 Cables – Outdoor** *- 23 AWG Solid Copper Conductors, Double Jacketed, 305mtrs or 1000ft. in length Box or Spool.* *- Pure copper color black PVC complies RoHS, with ISO Certification Test Standard.* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
7	**UTP CAT6 Cables – Indoor** *- 23 AWG Solid Copper Conductors, 305mtrs or 1000ft. in length Box or Spool.* *- Pure copper color White or Gray, PVC complies RoHS, with ISO Certification Test Standard.* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
8	**RJ 45 connectors** *- Pure Copper Golden Contact 8 Pin* *- Capable for Power Over Ethernet (PoE) by IEEE standard.* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
9	**Shelf Angle Bracket** - 9”x12” (color white with Screws) *- Heavy duty* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		
10	**Steel Data Cabinet – (Color Gray or black)** *- 22U/Data Cabinet no.1 22-U, Door and siding Vented with key lock to close or open, with standard rack for Equipment POE, with mini UPS 1000VA/600W 220-240VAC 50/60Hz, 5.6A Input and 220-240VAC 50/60HZ output, heavy duty.* *- 15U/Data Cabinet no.2, Wall mount/Door and siding Vented with key lock to close or open, with standard rack for Equipment POE, with mini UPS 1000VA/600W 220-240VAC 50/60Hz, 5.6A Input and 220-240VAC 50/60HZ output, heavy duty.* Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		

11	**PC Sytem Control and Monitoring – CPU** - Processor: Intel Core i7 (12th Generation or newer/higher) or Intel Core Ultra 7, or AMD Ryzen 7 7000 Series or newer/higher. - Memory: Minimum 64 GB DDR4/DDR5 RAM, expandable - Primary Storage: Minimum 2 TB PCIe NVMe SSD - Secondary Storage: Minimum 2 TB SATA HDD, 7200 RPM - Graphics Card: Dedicated graphics card with minimum 8 GB GDDR6 VRAM - Network Interface: At least 1 × RJ-45 10/100/1000 Mbps Gigabit Ethernet port - Display Outputs: Capable of supporting at least two (2) simultaneous displays through HDMI and/or DisplayPort. - USB Ports: Minimum 6 USB ports, with at least 4 USB 3.0 or higher - Operating System: Genuine Microsoft Windows 11 Professional 64-bit or higher/equivalent, with Certificate of Authenticity (COA) sticker/license or OEM digital license embedded in the system firmware (BIOS/UEFI) or other manufacturer-authorized licensing mechanism, fully activated upon delivery. - Power Supply: Minimum 650W, 80 Plus Certified or Higher. - Chassis: Mid-Tower chassis capable of accommodating all specified components with adequate cooling and ventilation. - Keyboard and Mouse: USB wired keyboard and USB optical mouse. - Video Management System (VMS): Licensed VMS software supplied by or fully compatible with the offered CCTV IP camera/NVR manufacturer, installed and configured upon delivery. - With attached and supply ready to use commercial 55”LED Monitor or 55” TV Monitor. - with attached and supply ready to use Line-Interactive UPS, minimum 1500 VA / 900 W, 220–240 VAC, 50/60 Hz, with at least six (6) battery-backed output receptacles, AVR (Automatic Voltage Regulation), surge protection, and USB communication interface. - Compatible to other devices/items of the system without lowering the listed technical specifications. Upon submission of bid, submit brochure or material data sheet of offered item for cross-referencing and evaluation		

Name: _____

Legal capacity:_____

Signature:_____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____