Technical Specifications

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| Sl. # No. | Item | Technical  Specification | Unit | Qty |
| 1 | 4 MP ColorVu Bullet Network Camera | 4K ColorVu vari-focal lens Bullet Network Camera High quality imaging with 4 MP resolution Efficient H.265+ compression technology Clear imaging against strong backlight due to 130 dB WDR technology  2.8 mm to 12 mm manual/motorized (with -Z) vari-focal lens  PoE (Power over Ethernet)  Focus on human and vehicle targets classification based on deep learning 24/7 colorful imaging Water and dust resistant (IP67)  Brand: Hikvision or equivalent | each | 7 |
| 2 | 12 MP ColorVu Bullet Network Camera | 4K ColorVu vari-focal lens Bullet Network Camera High quality imaging with 12 MP resolution Efficient H.265+ compression technology Clear imaging against strong backlight due to 130 dB WDR technology  2.8 mm to 12 mm manual/motorized (with -Z) vari-focal lens  PoE (Power over Ethernet)  Focus on human and vehicle targets classification based on deep learning 24/7 colorful imaging Water and dust resistant (IP67)  Brand: Hikvision or equivalent | each | 3 |
| 3 | 32CH NVR with 4SATA Interphase | 32-ch 1U 4K NVR Up to 32 channel IP cameras can be connected Up to 1-ch@32 MP/2-ch@12 MP/16-ch@1080p decoding capacity 1 HDMI and 1 VGA interfaces: both interfaces support independent video output 4 HDDs for continuous video recording Supports various special function cameras, including thermal camera/fisheye/people counting/heatmap/ANPR (automatic number plate recognition) Advanced streaming technology enables smooth live view and data self-correction in poor network conditions Supports dual-stream recording to save time and bandwidth  Brand: Hikvision or equivalent | each | 1 |
| 4 | 4TB HDD | 4000GB/4TB Surveillance Internal Hard Drive HDD  SATA 6Gb/s 64MB Cache for NVR Security Camera System with Drive Health Management Read Speed 190mps  Brand: Hikvision or equivalent | each | 4 |
| 5 | 24 Port PoE Switch with 4 SFP Ports | 24 x 10/100/1000 + 4 x Gigabit SFP (2 combo) Switching capacity : 56 Gbps Forwarding performance (64-byte packet size) : 38.69 Mpps MAC address table size 16K entries RAM 512MB with 256MB Flash Memory Layer 3 switching, Layer 2 switching, DHCP support, VLAN support, IGMP snooping, syslog support, DoS attack prevention, port mirroring, DiffServ support, weighted round-robin (WRR) queuing, broadcast storm control, IPv6 support, multicast storm control, unicast storm control, firmware upgradable, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, access control list (ACL) support, quality of service (QoS), jumbo frames support, MLD snooping, SNMP, RMON, SNTP, Auto SmartPorts 24 x 10Base-T/100Base-TX/1000Base-T - RJ-45 (24 x PoE+) 2 x combo SFP slot + RJ-45 ? 2 x SFP slot 1 x USB port - file management 1 x RJ-45 console - management | each | 1 |
| 6 | 8 Port PoE Switch with 4 SFP Ports | 8× 10/100/1000 Mbps RJ45 ports 4× PoE+ ports transfer data and power on individual cables Works with IEEE 802.3af/at compliant PDs Supports PoE Power up to 30 W for each PoE port Supports PoE Power up to 66 W for all PoE ports\* Up to 250m data and power transmitting range under Extend Mode\*\* Priority Mode ensures high priority of ports 1–2 to guarantee the quality of sensitive application  Brand: Hikvision or equivalent | each | 1 |
| 7 | 40” Screen | 40” LED HD Screen 3840\*2160 resolution Android 6.0 OS or above ARM Dual Core A9 1.2GHz CPU DDR3/8GB Flash memory 802.11 b/g/n Wifi Support Support all format of Videos, Audio and Image Support Android Apps Connectivity Ports 1TV, 3HDMI, 1USB, 1AV, 1 optical, 1 YPBPR and 1Earphone Brand : Panasonic, samsung or equivalent  Brand: Samsung or equivalent | each | 2 |
| 8 | SC/LC single Mode Fiber Optic Module | Maximum distance of up to 10 km Hot-pluggable  Single-mode fiber  1000BASE-LX (IEEE 802.3z standard) Duplex SC/LC connector MSA, RoHS-compliant | each | 2 |
| 9 | Indoor 9U rack | 19” Mounting angles made of welded steel Welded to Frame, Vented and Field Cable entry exit cut outs Lockable Toughened Glass Door | each | 2 |
| 10 | Fiber Patch Cord SC/LC | End-Face Type: PC/UPC/APC Fiber Diameter: 0.9mm, 2.0mm or 3.0mm Available for simplex and duplex The outer jacket can be PVC, LSZH, Armored etc Available for different connectors: SC, LC, FC, ST, MPO, MTP, MU, DIN, D4, E2K etc Fiber Type: Single mode fiber G652D, G657A1 and G657A2, Multimode fiber OM1, OM2, OM3 and OM4 are available | each | 8 |
| 11 | UPS,1500VA, single phase with inbuilt battery. | Line Interactive UPS with total Load Capacity of 865Watts / 1500VA LCD Display and Sleek Design 6 nos. India 3 Pin 6A Output Socket – 4 with Battery backup & 2 with Surge protection Outlets Automatic Voltage Regulator (AVR) with Wide Input Voltage Range of 170-294V 45-60\* min. Back-Up time \*as per the load Green UPS with Programmable Outlets with energy-saving features Generator Compatible  Brand: APC or equivalent | each | 1 |
| 12 | HDPE Pipe 25mm | 25mm HDPE Pipe for Fiber burial  (Actual Quantity will be determined based on actual site measurements) | m | 1 |
| 13 | Cassing capping | 1"  (Actual Quantity will be determined based on actual site measurements) | m | 1 |
| 14 | Power socket | 20A, modular power socket set  (Actual Quantity will be determined based on actual site measurements) | set | 1 |
| 15 | 4 Core Fiber Optic Cable | 4 Core Fiber Optic Cable type Burial Application Telecommunication  (Actual Quantity will be determined based on actual site measurements) | m | 1 |
| 16 | UTP cable | Cat 6  (Actual Quantity will be determined based on actual site measurements) | m | 1 |
| 17 | 4 Port LIU | 4 sliding Port LIU Rack mountable | each | 2 |
| 18 | Media Converter | 10BASE-T / 100BASE-TX / 1000BASE-T RJ-45 copper port 100BASE-FX / 1000BASE-X SFP port Use multimode SFP or single-mode SFP | set | 2 |
| 19 | Copper cable | 2.5sqmm, 2 core PVC insulated copper cable.  (Actual Quantity will be determined based on actual site measurements) | m | 1 |
| 20 | Installation | Installation and configuration of already existing CCTV Cameras |  |  |
|  |  | \*Camera  (drawing UTP/Optic fiber cable in Cassing capping/HDPE pipe, wiring power supply for switches in cassing capping /HDPE with all necessary accessories including connection, testing and commissioning of power sockets, RJ45 etc. as required). | each | 18 |
|  |  | \*Dismantling of 8 existing outdoor cameras. | each | 8 |
|  |  | \*and all necessary work (fiber splicing, configuration, installation of 9U rack etc.) | lot |  |