|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Item Part Number** | **Item Description** | **UoM** | **Total Qty Required** |
| **1** | **Network Video Recorder** | |  |  |
| **1.1** | DHI-IVSS7024DR | > Industry embedded micro-controller > Max 512 Mbps incoming bandwidth > 256-channel IP video access > Up to 96-channel AI IVS > Up to 96-channel face recognition with normal IPC > Up to 256-channel face recognition with face detection IPC > Up to 96-channel video metadata > Up to 50 face databases with 500,000 face pictures in total > Supports RAID 0/1/5/6/10/50/60 > 3 HDMI/1 VGA video output > Redundant power | Pcs | 2 |
| **2** | **Storage and Backup Server** | |  | - |
| **2.1** | Dell PowerEdge R740xd2 | Processor Processor Type: 2x Intel® Xeon® Gold  Memory Capacity 3x32GB RDIMM, 3200MT/s, Dual Rank, 8Gb BASE  Memory Configuration Performance Optimized Memory DIMM Type and Speed 3200MT/s /s RDIMMs DISK 8x 8TB 7.2K RPM 2Gbps 512n 2.5in Hot-plug Hard Drive | Pcs | 3 |
| **3** | **8port poe Switch** | |  |  |
| **3.1** | CloudEngine S5735-L8P4X-A1 | 8 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply CloudEngine S5735-L Series Switches Datasheet 2 Models and Appearances Description  PoE+  Forwarding performance: 72 Mpps  Switching capacity: 96 Gbps/336 Gbps | Pcs | 80 |
| **4** | **Outdoor bullet Camera** | |  |  |
| **4.1** | DH-IPC-HFW3441MP-AS-I2-0360-B | > 4MP, 1/3” CMOS image sensor, low illuminance, high image definition > Outputs max. 4MP (2688 × 1520)@30 fps > H.265 codec, high compression rate, low bit rate > Built-in IR LED, max. IR distance: 80 m > Alarm: 2 in, 2 out; Audio: In, out; supports max. 256 G Micro SD card > 12V DC/PoE power supply, 12V power output, max. current 165mA > IP67 protection > SMD Plus | Pcs | 65 |
| **5** | **Outdoor PTZ Dome Camera** | |  |  |
| **5.1** | DH-SD5A225GB-HNR | > 1/2.8" 2Megapixel STARVIS™ CMOS > Powerful 25x optical zoom > Starlight Technology > Max. 50/60fps@1080P > IR distance up to 150 m > SMD PLUS > Deep-learning-based perimeter protection > Auto-tracking and IVS > PoE+ > IP67, IK10 | Pcs | 35 |
| **6** | **Indoor Dome Camera** | |  |  |
| **6.1** | DH-IPC-HDBW3441EP-AS-0280B | 1/2.7" Progressive Scan CMOS; H.265+/H.265/H.264+/H.264/MJPEG;  Powered by Darkfighter technology,Color: 0.012 lux @(F1.6, AGC ON), 0 lux with IR; 25fps/30fps(2688×1520,2304×1296,1920×1080); VCA functions; 3 streams; 3D DNR; BLC; ICR; EXIR; DC12V&PoE; Built-in micro SD/SDHC/SDXC slot; HIK-Connect cloud service \*-S model: Audio/Alarm I/O | Pcs | 85 |
| **7** | **Fisheye Camera** | |  |  |
| **7.1** | DH-IPC-EBW81230P | > 1/1.7” 12Megapixel progressive scan STARVIS™ CMOS > H.265/H.264 triple-stream encoding > Max 25fps@12M(4000x3000) > Multiple dewarped Mode > Day/Night(ICR), 3DNR, AWB, AGC, BLC > Smart detection > Intelligent Function > Max. IR LEDs length 10m > Micro SD memory, IP67, IK10, PoE | Pcs | 25 |
| **8** | **Standalone Solar powered Network Camera** | |  |  |
| **8.1** | IPC-HFW3241DF-AS-4G | 150W Solar Panel DH-PFM371-150 Solar panel mounting bracket DH-PFM376-C Distribution box DH-PFM377-D2440 Lead Acid Battery PFM372-100-CNF Battery storage box DH-PFM374-H400 | Pcs | 15 |
| **10** | **Display Screen With mounting accessories** | |  |  |
| **10.1** | DHI-LS550UDM-YEG-V2 | 55" Dahua display unit(1.8mm) with Simple Bracket for 1pcs 55" screen , HDMI Cabel | Pcs | 4 |
| **11** | **Video wall controller** | |  |  |
|  | DHI-NVD0105DH-4K | Designed for standalone operator viewers · H.265+/ H.265/ H.264/ MPEG4/ MPEG2/ MJPEG video decoding · 1ch@32MP(25fps)/3ch@12Mp(15fps)/4ch@8MP/16ch@10 80P/36ch@720P/64ch@D1 decoding ability · Supports multiple resolution decoding: up to 32Mp network video · 1ch HDMI/VGA output, HDMI support Ultra HD 4K output · Supports 1/4/9/16/25/36/64 display split · Supports alarm, RS232, RS485 · Local GUI support mouse operation directly · Supports the display of intelligent regular line | Pcs | 4 |
| **12** | **1.5 KVA UPS** | |  |  |
|  | GXTRT-1500IR | 1U rack format, offers 1500VA/1350W of backup power protection for server and networking equipment. Featuring a high 0.9 power … | Pcs | 65 |
| **13** | **PoE Injector 30W** | |  |  |
|  | TAM1GT1GT-30 | interface: 1 RJ45 PoE port, 1 RJ45 port; PoE+; | Pcs | 80 |
| **14** | **VMS license** | |  |  |
|  | DHI-DSSPro8-Video-Base-License | DSS Professional V8 video surveillance base package includes 16 video channels and is a prerequisite for video channel expansion. Supported: live view, playback, video wall, map, event center, deepxplore, maintenance center, etc. | Pcs | 1 |
| **15** | **Camera License** | |  |  |
|  | DHI-DSSPro8-Video-Channel-License | Video channel expansion license, one video channel license for DSS Professional V8. Prerequisite: Video surveillance base package. | Pcs | 300 |
| **16** | **1G SFP MODULE** | |  |  |
|  | SFP -LR-1G | Distance Support up to 10 km | Pcs | 240 |
| **17** | **Core switch** | |  |  |
|  | S6730-H24X6C | S6730-H24X6C 24 x 10 Gig SFP+, 6 x 40/100 Gig QSFP28 Dual pluggable power modules, 1+1 power backup  Switching capacity: 1.68Tbps/2.4Tbps Note: All ports support 40GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from 40GE to 100GE | Pcs | 2 |
|  | **Total** | |  |  |

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| CON-SU-CCTV SOC-BOQ | | | |  |
| No. | Item Part Number | Item Description | UoM | Total Quantity required |
| 1 | Door Access Control device | |  |  |
| 1.1 | DHI-ASI7213Y-V3 | > 7 inch IPS display, resolution 1024×600  > Support face unlock, IC card unlock, and password unlock; unlock by period  > With face detection box; the largest face among faces that appear at the same time is recognized first; the maximum face size can be configured on the web  > 2MP wide-angle WDR lens; with auto/manual fill light  > Face-camera distance: 0.3 m–2.0 m; human height: 0.9 m–2.4 m  > With face recognition algorithm, the access controller can recognize more than 360 positions on human face  > Face verification accuracy>99.5%; face comparison speed 0.35s per person; low false recognition rate  > Support profile recognition; the profile angle is 0°–90°  > Holds 50, 000 users, 50, 000 faces, 50, 000 cards, 50, 000 passwords, and 50 administrators > Support liveness detection > Support duress alarm, tamper alarm, intrusion alarm, door contact timeout alarm, illegal card exceeding threshold alarm , and more > Support general users, patrol users, VIP users, guest users, and the disabled users > With 4 unlock status display modes | Pcs | 2 |
| 2 | Work station | |  |  |
| 2.1 | Lenovo IdeaCentre AIO 3 27ITL6 All in One | Windows 11 Home Integrated Intel® UHD Graphics 630 27.0” QHD (2560 x 1440) IPS, anti-glare, touchscreen, 350 nits 8 GB DDR4 2667MHz • 1 TB 5400 RPM HDD • 256 GB PCIe SSD | Pcs | 6 |
| 3 | Display Screen (Video Wall Display) With mounting accessories | |  |  |
| 3.1 | DHI-LS550UDM-YEG-V2 | 55" Dahua display unit(1.8mm) with mounting accssories " 55"" bracket of rear maintenance" , ", 55"" pedestal with a height of 1, meter", HDMI 15m male-male/1080P with buckle" Project accessory kit (Dahua)" , Tie rod" Pallet for 55" pedestal of display unit (3 in 1; 1250×1015×135) Wooden case for 55" display unit (2 in 1; external dimension: 1403\*583\*1088) IR to RS232 Controller | Pcs | 9 |
| 4 | 10KVA UPS With External battery backup | |  |  |
| 4.1 | GXT5-10KIRT5UXLN with External Battery cabinet | 10,000 VA / 10,000 W Vertiv Liebert GXT5-10KIRT5UXLN uninterruptible power supply (UPS) Double-conversion (Online) 10 kVA 10000 W 8 AC outlet(s). | Pcs | 2 |
| 5 | HD Video Wall Controller for video wall | |  |  |
| 5.1 | DHI-NVD0105DH-4K | Designed for standalone operator viewers · H.265+/ H.265/ H.264/ MPEG4/ MPEG2/ MJPEG video decoding · 1ch@32MP(25fps)/3ch@12Mp(15fps)/4ch@8MP/16ch@10 80P/36ch@720P/64ch@D1 decoding ability · Supports multiple resolution decoding: up to 32Mp network video · 1ch HDMI/VGA output, HDMI support Ultra HD 4K output · Supports 1/4/9/16/25/36/64 display split · Supports alarm, RS232, RS485 · Local GUI support mouse operation directly · Supports the display of intelligent regular line | Pcs | 2 |
| 6 | Standard Security Door, Single-door Magnetic Lock, | |  |  |
| 7.1 | Standard Security Door | Standard Security Door with Single-door Magnetic Lock, | Pcs | 1 |
| 5 | Keyboard Controller | |  |  |
| 5.1 | DHI-NKB5000 | > Keyboard to control -DAHUA Standalone DVR -DAHUA high speed dome -Central Management Platform -Network Video Server > RS232, RS485 & network connections (WLAN) > Four dimensional joystick control of PTZ functions > Support 4K decoding live view > Support 4CH HDMI output > Support snapshot and recording to U-disk > Support Video-Wall display control > Preset Position, Auto Scan, Auto Pan, Auto Tour & Pattern Control > NKB5000-F model includes an extension keypad module (The module is not available in platform preview mode; F1 cannot be called in platform TV wall mode) | Pcs | 2 |
| 8 | Table | |  |  |
| 8.1 | Standard Table | Standard Table | Pcs | 4 |
| 9 | Chair |  |  |  |
| 9.1 | Standard Chair | Standard Chair | Pcs | 8 |
| 10.0 | wall mount Air Conditioner | |  |  |
| 10.1 | Air Conditioner | Media 2400BTU Air connditioner | Pcs | 2 |
| 11 | Portable Radio | |  |  |
| 11.1 | NX-200s/300s | Kenwood NX-1300 UHF half keypad hand radio with accessories Li-Ion Battery (2550mAh) "MULTIPLE CHARGER (6-pocket for Li-ion KNB-45L/69L/82LC)" | Pcs | 25 |
| 12.0 | Wireless Presentation tool | |  |  |
| 12.1 | ClickShare C-5 | Barco ClickShare C-5 - Wireless video/audio extender - 802.11a, 802.11b/g/n, 802.11ac - up to 30 m | Pcs | 2 |
|  | Total | |  |  |

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| **One card system** | | | | |
| **no** | **Item Part Number** | **Item Description** | **UoM** | **Total Qty Required** |
| 1 | **Server** | |  |  |
|  | Dell PowerEdge R740xd2 | Processor Type: 2x Intel® Xeon® Gold  3x32GB RDIMM, 3200MT/s, Dual Rank, 8Gb BASE  Performance Optimized 3200MT/s /s RDIMMs 8x 2TB 7.2K RPM 2Gbps 512n 2.5in Hot-plug Hard Drive | Pcs | 2 |
| 2 | **photo capturing device** | |  |  |
|  | Logitech C922, | Stream and record vibrant, true-to-life video. C922 features a glass lens with autofocus and a 78° diagonal field of view. Full HD streaming captures all the details, bright, natural colors, and fluid video at 1080p/30fps—and in HD at 720p/60fps. Use Capture to zoom, pan, and edit. | Pcs | 4 |
| 3 | **Face Recognition Terminal 1** | |  |  |
|  | DHI-ASI7223Y-A-V3 | 。7 inch touch screen 。50,000 face capacity 。Face speed 0.35s 。Access control and time attendance 。Wieand in/out,RS485, OSDP, TCP/IP 。P2P, NTP，DST, Auto Register | Pcs | 26 |
| 4 | **Face Recognition Terminal 2** | |  |  |
|  | DHI-ASI7213Y-V3 | 。7 inch touch screen 。50000 face capacity 。50,000 card capacity 。Face speed 0.35s 。Access control 。Wieand in/out,RS485, TCP/IP 。P2P, NTP，DST, Auto Register | Pcs | 23 |
| 5 | **Card Reader** | |  |  |
|  | DHI-ASR1100B-V1 | Card access; RS-485 & Wiegand protocol to controller; Wiegand 34 bit default, 26 bit optional;  IP67; | Pcs | 10 |
| 6 | **PVC ID card printer** | |  |  |
|  | DTC4500e | The versatility of the DTC4500e is unsurpassed. Driven by an extremely robust and reliable print engine, this high-volume printer delivers speed, power and versatility rolled into one. High-capacity ribbons enable the DTC4500e to print twice as many full-color cards as most printers before the ribbon has to be changed, providing continuous high-quality card printing and encoding | Pcs | 3 |
| 7 | **Contact less Smart Card** | |  |  |
|  | IC S50 | Mifare 1 Contactless Smart card, Frequency: 13.56MHz. | Pcs | 20000 |
| 8 | **Ribbon kit** | |  |  |
|  | Fargo YMCKO Color Ribbon | YMCKO color ribbon 500 full color prints per roll Fargo 45200 ribbon is for use with the following Fargo printers:  DTC4500e | Pcs | 50 |
| 9 | **Poly guard laminate** | |  |  |
|  | Fargo 82612 | Clear patch overlaminate 1.0 mil thick Approximately 1/16" border from patch to card after lamination 250 imprints per roll | roll | 50 |
| 10 | **Barcode Scanner** | |  |  |
|  | Zebra DS8178 | The DS8100 Series handheld scanners rise above conventional imagers to deliver unprecedented scanning performance on 1D and 2D barcodes, innovative productivity enhancing tools and unrivaled manageability to keep your checkout lines moving and your cashiers free to deliver a more personal checkout experience. | Pcs | 10 |
| 11 | **Barcode Printer** | |  |  |
|  | Zebra ZD220, | The ZD220 desktop printer gives you reliable operation and basic features at an affordable price—both at the point of purchase and across the entire lifecycle. Engineered with Zebra quality, it boasts a dual-wall construction for added durability. And, it is ENERGY STAR® qualified to reduce your operational expenses. Built to last for years, the ZD220 provides an outstanding return on your investment. | Pcs | 4 |
| 12 | **Barcode Paper** | |  |  |
|  | Zebra printer ribbon | Zebra, 5319 Wax Ribbon, 33MM x 74M, 1.3" x 244', 0.5" Core, 12 Rolls Per Case, (Priced per Case) | roll | 70 |
| 13 | **swing Barrier** |  |  |  |
|  | [DHI-ASGB610K-L](https://cpq-c.dahuatech.com/#/en-US/product-maintain/view?pid=B048ED6BBE0901E4E055000000000001&directoryCode=null&partNum=1.0.01.25.11229&countryCode=HQ) | **Left-Flap Barrier(card)** | Pcs | 27 |
|  | [DHI-ASGB621K-D](https://cpq-c.dahuatech.com/#/en-US/product-maintain/view?pid=B048ED6BBE0C01E4E055000000000001&directoryCode=null&partNum=1.0.01.25.11233&countryCode=HQ) | **MiddleFlap Barrier-1(card)** | Pcs |
|  | DHI-ASGB611K-R | **Right-Flap Barrier-1(card)** | Pcs |
| 14 | **SQL server 2017** | |  |  |
|  | SQL server 2017 | SQLSvrStd 2017 | Pcs | 2 |
| 15 | **Windows server 2019** | |  |  |
|  | Windows server 2019 | WinSvrSTDCore 2019 SNGL OLP 16Lic NL Acdmc CoreLic | Pcs | 2 |
| 16 | **10KVA UPS** | |  |  |
|  | GXT5-10KIRT5UXLN with External Battery cabinet | 10,000 VA / 10,000 W Vertiv Liebert GXT5-10KIRT5UXLN uninterruptible power supply (UPS) Double-conversion (Online) 10 kVA 10000 W 8 AC outlet(s). | Pcs | 1 |
| 17 | **Workstation** | |  |  |
|  | Lenovo IdeaCentre AIO 3 27ITL6 All in One | Windows 11 Home Integrated Intel® UHD Graphics 630 27.0” QHD (2560 x 1440) IPS, anti-glare, touchscreen, 350 nits 8 GB DDR4 2667MHz • 1 TB 5400 RPM HDD • 256 GB PCIe SSD | Pcs | 8 |
|  | **Total** | |  |  |

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| CCTV and OCS Structural Cabling | | | | |
| **No.** | **Item Part Number** | **Item Description** | **UoM** | **Total Qty Required** |
| **1** | **CCTV and OCS structural cabling** | |  |  |
| **1** | FTP Cable | (FTP) outdoor-rated CAT6 cable 305 meter Per Role | Roll | 35 |
| **2** | UTP Cable | (UTP) Full Copper CAT6 UTP cable 305M Per Roll | Roll | 80 |
| **3** | Single Mode Fiber cable outdoor | • 12 cores • Known Brand • outdoor | meter | 10000 |
| **4** | Fiber splicing sleeve | Fiber Optics Fusion Splicing Sleeve 5per pack | pack | 120 |
| **5** | 12 port Single Mode Fiber Patch Panel | • 12 port LC duplex panel loaded with 12xLC duplex • single mode • rack mountable • Brand: known brand | PC | 70 |
| **6** | Single Mode Pigtail (C) | • LC single mode fiber pigtail tight buffer-9/125 OSI/OS2 1 meter | PC | 1000 |
| **7** | Fiber Patch Cord LC-LC | LC-LC Single Mode Fiber Patch Cord 1m | PC | 400 |
| **8** | Warning Tape | ·Fiber Optics Warning Tape | meter | 8000 |
| **9** | Patch Panel for UTP | • Brand: known brand , Number of RJ-45 port: , 24 Port, with cable management and port labeling features , Standard/category , Compatible for Category 6 | PC | 80 |
| **10** | Switch Rack | 9 Unit Rack with Mounting Accessory | PC | 30 |
| **11** | 1m UTP Patch Cord | • Cable Type Ø Category 6 Cable Factory Made (with cable Jacket and RJ-45 Connector) • Cable Length Ø 1m • Brand Ø Known brand | PC | 600 |
| **12** | Cable trunk | PVC cable Trucking (15mmx25mm) | meter | 2000 |
| **13** | PPR pipe ¾ with accessories and including installation | PPR pipe ¾ with accessories and including installation | meter | 1000 |
| **14** | Rj45 connector for FTP | standard Rj45 connector | pc | 300 |
| **15** | Power outlet | ·Single phase power outlet(flat surface mounted ) | pc | 80 |
| **16** | power cable | 2.5X3 power cable | meter | 4000 |
| **17** | Junction Box | • Junction box IP6 Water Proof • 10X10 Size | pc | 225 |
| **19** | UPVC | 75 Diameter UPVC 6m length 4pn | meter | 3824 |
| **20** | HDP pipe | HDP Pipe 50 size PN10 | meter | 1000 |
| **21** | data outlet | Double data outlet  Known Brand | pc | 200 |
| **22** | Fisher 6mm | 6mm fisher 100/pack | pack | 200 |
| **23** | Screw 6mm | 6mm screw 100/pack | pack | 200 |
| **24** | 42 U Active Device Rack Cabinet | 42 U Rack Active device rack with 4 Fan at the Top 1000X600X2000 Size | pc | 1 |
| **25** | 42U Cabling Rack Cabinet | 42 U Rack for Cabling rack with 4 Fan at the Top 1000X800X2000 Size | meter | 1 |
|  | **Total** | |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Professional Services | | | | |
| **1** | **Professional Service** | |  | **Total Qty Required** |
| **1** | Path indicator with labor work | 45 cm height concert Fiber path indicator production and installation with level | Pcs | 700 |
| **2** | manhole | with reinforced cover · 60 cm Cover diameter  · 100 cm depth  · Bedding | Pcs | 160 |
| **3** | Excavation and refill of soil | Trench excavation not more than 100 cm depth minimum 60cm and fiber warning tape work | meter | 7000 |
| **4** | Installation FTP/Fiber | Installation of FTP/Fiber Cable inside UPVC | set | 10000 |
| **5** | Coble stone and another road crossing | Road Crossing and recovering to Original | meter | 772 |
| **6** | Camera Mounting with foot construction | Camera Mounting and Testing | pc | 290 |
| **8** | Camera Mounting pole | Standard 6-meter metal camera mounting pole | pc | 58 |
| **7** | Fiber splicing | Fiber splicing | core | 200 |
| **11** | SOC Room decoration | SOC Room setup (display TV , table , chair PC,) and Renovation that includes gypsum work, lighting. Room paint, carpet, Curtain, for Control Room | Ls | 1 |
| **15** | Node Instalation | Node Instalation (Trunking and cable installation , Punching …for one card and CCTV camera | pcs | 220 |
| **16** | Rack mounting | 9u rack mounting | pcs | 30 |
| **17** | 42 U Rack Mounting | 42U rack mounting | set | 2 |
| **18** | nvr configration | nvr mounting and configuration | pcs | 2 |
| **19** | 8port access switch configuration | 8port access switch configuration | pcs | 80 |
| **20** | Video Management software configuration | Video Management software configuration and setup | pc | 1 |
| **20** | core switch configuration | core switch configuration | pcs | 2 |
| **2** | **One Card Sofware** | |  |  |
| **2** | One card System Development | Design and Installation of Cafeteria Module, Library Module, Registrar Module, Dormitory Module, Gate Series | set | 1 |
| **2** | One card Device Mounting and Deployment | Device Configuration and Mounting ,(Face Recognition ,Turnstile) | set | 1 |
| **2** | Shelter for the main gate turnstile devices | Construction of All Civil Work and decoration for turnstile device deployment | set | 1 |
|  | **Total** | |  |  |