**Annex B – Technical Specifications**

**Supply and Installation of CCTV System for UNHCR Sub Office Peshawar, Guest House, Nowshera VRC, Warehouse and Rubhalls**

**TENDER REF: 2024/SOP/SCU/RFQ/021**

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| **S. No.** | **Description** | **Quantity** |
| **1** | **NVR (Network Video Recorder) (WIZ Sense Technology)**  **Dahua DHI-NVR5864-EI or equalent**  Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.  Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.  Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.  Supports IP cameras with a resolution up to 32 MP.  Supports AcuPick with up to 32 channels.  Supports N+M cluster,iSCSI.  Support Raid0/1/5/6/10.  AI by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.  AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.  Supports EPTZ, and one-click arming and disarming.  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 3 units * VRC / Warehouse / Rubhalls – 1 unit | **04** |
| **2** | **Outdoor Camera (WIZ Sense Technology)**  **Bullet Camera**  **Dahua IPC-HFW2541-T-ZS or equalent**  5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image. Outputs max. 5 MP (2592 × 1944) @20 fps, and supports 4 MP (2688 × 1520) @25/30 fps. H.265 codec, high compression rate, ultra-low bit rate. Built-in IR LED, and the max. illumination distance is 60 m. ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments. Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes. Intelligent monitoring: Intrusion and tripwire (the two functions support the classification and accurate detection of vehicle and human). Abnormality detection: Motion detection, video tampering, scene changing, audio detection (Only - ZAS supports) , no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection. Alarm: 1 in, 1 out (Only - ZAS supports); audio: 1 in, 1 out (Only - ZAS supports). supports max. 256 G Micro SD card. 12 VDC/PoE power supply, easy for installation. IP67 protection. SMD Plus.  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 25 units * VRC / Warehouse / Rubhalls – 30 units | **55** |
| **3** | **Indoor Camera (WIZSense Technology)**  **Dome Camera**  **Dahua IPC-HDW2531 T-AS-S2 or equalent**  5MP, 1/2.7” CMOS image sensor, low illuminance, high image definition · Outputs 2688×1520 (2688×1520) @ 25/30 fps, and supports max. 5MP (2592×1944) @ 20 fps · H.265 codec, high compression rate, ultra-low bit rate · Built-in IR LED, max IR distance: 30 m · ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments · Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes · Intelligent detection: Intrusion, tripwire · Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection · Supports max. 256 GB Micro SD card · 12V DC/PoE power support · IP67 protection  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 15 units * VRC / Warehouse / Rubhalls – 6 units | **29** |
| **4** | **IR Network PTZ Camera (WIZSense Technology)**  **SD6CE445GB-HNR or equalent**  4MP 45x Starlight IR Network PTZ Camera  1/2.8" 4Megapixel STARVIS™ CMOS.  45x optical zoom.  Starlight technology.  Max. 25/30fps@4M.  IR distance up to 250 m.  Auto-tracking 3.0.  Perimeter protection.  Face detection.  SMD 4.0.  IP67, IK10.  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 2 units * VRC / Warehouse / Rubhall – 1 unit | **03** |
| **5** | **PTZ Controller**  **Dahua NKB-3000** **or equalent**  Touch Screen Keyboard IP/RS-485/232/422  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 2 units * VRC / Warehouse / Rubhalls – 1 unit | **03** |
| **6** | **Recording required for SO Peshawar, Guest House, and Nowshera Warehouse, VRC and Rubhalls for 90 days:**  The required surveillance hard drives would be required to facilitate the recordings for the office, guest house, VRC, warehouse and rubhalls for 90 days.  Recommended brand for surveillance grade hard drive is Western Digital and Seagate.  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house 8 units * VRC / Warehouse / Rubhalls 6 units   The required Hard Drives should be 12TB or 14TB each and the number of the required Hard Drives could be changed depending upon the requirement at the time of the installation of the CCTV cameras. | **14** |
| 7 | **LAN Cable Trays**  LAN cable trays need to be installed on the boundary wall of UNHCR office and Guest House (60 units) as well as at the VRC and warehouse (30 units) to protect it from unexpected cut or damage to the cable. The size and dimensions of the cable tray should be as follows:  Width : 12 Inches  Hight : 3 Inches  Lenth : 10 ft  Material : Galvanized  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 60 units * VRC / Warehouse / Rubhalls – 30 units   The number of the cable tray can vary accordingly. Estimated 90 units should be sufficient. | **90** |
| 8 | **Dahua 24 Port Ethernet PoE Gigabit Network Switch**  **24-Port Unmanaged Gigabit Switch with 24-Port PoE**  Intelligent PoE  Red Port Supports BT 90W  All-giga Ports  All PoE Ports  Smooth Transmission  Wide Working Temperature: –10 to 55°C (14°F to 131°F)  Plug and Play  **-OR-**  **Equivalent**  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 3 units * VRC / Warehouse / Rubhalls – 2 units | **5** |
| 9 | **Dahua 16 Port Ethernet PoE Gigabit Switch**  **16-Port Unmanaged Gigabit Switch with 16-Port PoE**  Intelligent PoE  Red Port Supports BT 90W  All-giga Ports  All PoE Ports  Smooth Transmission  Wide Working Temperature: –10°C to 55°C (14°F to 131°F)  Plug and Play  **-OR-**  **Equivalent**  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 5 units * VRC / Warehouse / Rubhalls – 9 units | **14** |
| **10** | **Dahua 10 Port Ethernet PoE Gigabit Switch**  **PFS3010-8GT-65**  10-Port Economical Gigabit Switch with 8-Port PoE  Unmanaged gigabit PoE switch. Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab, and IEEE802.3x standards. A wide operating temperature range and a full metal casing that is fully enclosed and dust-proof. Easy to install, and plug and play. Meets the IEEE 802.3af and IEEE802.3at power supply standards.  **-OR-**  **Equivalent**  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 5 units * VRC / Warehouse / Rubhalls – 2 units | **07** |
| **11** | **LAN Cable**  Cat 6A Network Cable pure copper preferably AWG 23 Gauge  **-OR-**  **Equivalent**  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 10 rolls * VRC / Warehouse / Rubhalls – 10 rolls | **20 Rolls** |
| **12** | LED 40” Display Samsung  **-OR-**  **Equivalent**  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 5 units * VRC / Warehouse / Rubhalls – 4 units | **09** |
| **13** | **Installation / configuration / removal of old and faulty CCTV system**  Installation of the complete new CCTV system (including CCTV cameras, NVRs, PTZ Camera, PTZ Controller, IP67 Boxes, replacement of faulty LAN cables/IOs/Faceplates/RJ45 connectors), Testing, Commissioning, Termination, Tagging, preparation of complete documentation with the details of IP address of all the cameras, tagging for Network switches connectivity over Fiber Optic and location for each camera should be responsibility of the vendor.  Also the removal of the old faulty systems including CCTV Cams, faulty NVRs, Faulty LAN cables, Faulty network switches and accessories will also be the responsibility of the vendor.  The main uplinks from NVR to switches and switches to switches should be connected through the Fiber Optic.  **Location where services are required:**   * UNHCR Sub office Peshawar and Guest house * VRC / Warehouse / Rubhalls | **Job** |
| **14** | Data Rack 42U for NVR in the Telecom server room with installation  **Location where services are required:**   * UNHCR Sub office Peshawar and Guest house | 1 |
| **15** | **Requirement for UNHCR Sub Office Peshawar and guest house**  Duct (16/38)  RJ45 Connector CAT 6A,  PVC Camera Box IP67  **Requirement for VRC / Warehouse / Rubhalls**  Pipe, Socket, Tape, Jointers each  RJ45 Connector CAT 6A  PVC Camera Box IP67 | **50 200 50**  **100**  **200**  **50** |
| **16** | **Requirement for UNHCR Sub Office Peshawar and guest house**  Patch Pannel 24 ports (Loaded with IOs) spiral roll  **Requirement for VRC / Warehouse / Rubhalls**  Patch Pannel 24 ports (Loaded with IOs) spiral roll | **03 50 meter**  **03 50 meter** |
| **17** | **Requirement for UNHCR Sub Office Peshawar and guest house**  Sliding ODF Rack Mount 16 Port  **Requirement for VRC / Warehouse / Rubhalls**  ODF Rack Mount 08 Port | **04**  **04** |
| **18** | SC-LC Pigtail  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 20 units * VRC / Warehouse / Rubhalls – 10 units | **30** |
| **19** | SC-SC Pigtail  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 40 units * VRC / Warehouse / Rubhalls – 20 units | **60** |
| **20** | SFP Modules original  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 14 units * VRC / Warehouse / Rubhalls – 10 units | **24** |
| **21** | Fiber Splicing  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 50 units * VRC / Warehouse / Rubhalls – 50 units | **100** |
| **22** | Patch Cord 1meter  **Actual quantity per location:**   * UNHCR Sub office Peshawar and Guest house – 60 units * VRC / Warehouse / Rubhalls – 60 units | **120** |
| **23** | After-sale-service and maintenance of the CCTV system for 1 year  **Location where services are required:**   * UNHCR Sub office Peshawar and Guest house * VRC / Warehouse / Rubhalls | **Job** |

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| **Bidder Name:** |  |
| **Date:** |  |
| **Signature & Stamp:** |  |
| **Mention Delivery time:**  UNCHR Prefered delivery time for Supply and installation of the CCTV cameras / system   * At the UNHCR Sub office and guest house – Peshawar is 14 working days after receipt of purchase order * At the UNHCR warehouse, VRC and rubhalls located at Nowshera is 14 working days after receipt of purchase order   Total UNHCR preferred delivery and installation time after receipt of purchase order is 28 working days. |  |
| **Delivery place** | UNHCR Sub Office Peshawar, Guest house and Nowshera warehouse, VRC and rubhalls |