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**TOR for the Supply, Delivery, and Installation of** **Surveillance (CCTV) System**

**for UNHCR Offices.**

UNHCR Sub Office Ogoja would like to install new Surveillance Systems at the following locations (Ogoja Office, Ogoja guesthouse, Adikpo, Calabar and Takum, and the following are the main required works.

1. Supply, Delivery, and installation of 5 dome cameras (outdoor).
2. Provide installation service for 5 dome cameras.
3. Supply, Delivery, and installation of 5 infrared bullet cameras (outdoor).
4. Provide installation service for 5 infrared cameras.
5. Supply, Delivery, and installation of 5 DVR devices
6. Supply, Delivery, and installation of Monitor Screen 42 inch: QTY one (1) Device
7. Supply, Delivery, and installation of Monitor Screen 24 inch: QTY four (4) Device
8. Supply, Delivery, and installation of Cable (305M): QTY 5
9. Supply, Delivery, and installation of PVC conduit pipe to house the cables

Note: Each installation location will consist of the following: 1 Dome camera, 1 Infrared camera, 1 4Channel DVR, and 1 Monitor.

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| **Surveillance System** | | | |
| Item no. | Minimum Acceptable Specifications | Qty | UoM |
| 1 | **Dome Cameras (Outdoor)**   * Built-In Mic * HD Video Output * HDTVI Technology * EXIR Technology * Hikvision DS-2CE76DOT-ITPFS Turbo HD 2mp * Camera * Image Sensor: 2.0-megapixel progressive scan CMOS * Signal System: PAL/NTSC * Effective Pixels: 1920 (H) × 1080 (V) * Min. Illumination: Color: 0.005 Lux @ (F1.2, AGC ON), 0 Lux with IR * Shutter Time: 1/25(1/30) s to 1/50,000 s * Lens: 2.8 mm, 3.6 mm, 6 mm fixed lens * Lens Mount: M12   **IMPRTANT:**   * All Cameras should be from known brand in CCTV industry with warranty of two years. * All outdoor cameras must be weatherproof with anti-vandalism as Mounts, Housings & Brackets should be included. * Preferable Video codec is H.265. * Cameras should record on motion detection and compatible with DVR. * WDR [Wide Dynamic Range](http://www.idealcctv.co.uk/wdr-what-wide-dynamic-range),…..). * All cameras and depends on type should have these basic features   Here below are basic common Cameras features   * Built-In Mic * HD Video Output * HDTVI Technology * EXIR Technology * Hikvision DS-2CE76DOT-ITPFS Turbo HD 2mp * Camera * Image Sensor: 2.0-megapixel progressive scan CMOS * Signal System: PAL/NTSC * Effective Pixels: 1920 (H) × 1080 (V) * Min. Illumination: Color: 0.005 Lux @ (F1.2, AGC ON), 0 Lux with IR * Shutter Time: 1/25(1/30) s to 1/50,000 s * Lens: 2.8 mm, 3.6 mm, 6 mm fixed lens * Lens Mount: M12 * Adjustment Range: Pan: 0° to 360°, Tilt: 0° to 75°, Rotation: 0° to 360° * Day& Night: IR cut filter * Video Frame Rate: PAL: 1080p@25fps * NTSC: 1080p@30fps * HD Video Output: 1 Analog HD output * Synchronization: Internal Synchronization * BLC: Support * Up the Coax: Support * Menu * 3D DNR (Digital Noise Reduction): Level 1 to 9 * D/N Mode: Auto/Color/BW (Black and White) * BLC: Support * AGC: Low/middle/high * Language: English * Function: Brightness, Sharpness, DNR, Mirror, Smart IR * Interface * Video Out: 1 HD analog output * General * Material: Metal * Operating Conditions: -40 °C – 60 °C (-40 °F – 140 °F) * Humidity 90% or less (non-condensing) * Power Supply: 12 VDC ±25% \*You are recommended to use one power adapter to supply the power for one camera. * Power Consumption: Max. 4.6 W * Weatherproof: IP67 * IR Range: Up to 30m * Dimension: 89.47 mm × 68.2 mm (3.52″ × 2.68″) * Weight: Approx. 240 g (0.53 lb.) * Brand required : Hikvision or equalivant | 5 | units |
| 2 | **Provision of installation service for the dome cameras with all required accessories for installation purpose.**   * Bidder must provide all required equipment * Bidder must coordinate with technical and admin unit and share the work plan prior installation one (1) week advance | 5 | Units |
| 3 | **Infrared Bullet Cameras (Outdoor)**   * 5MP Built-in Mic Camera (Day/Night Vision), * Frame Rate 5MP@20fps, 4MP@30fps), * EXIR, * Effective Pixels 2560×1944, * Up to 25m IR Range, * DC 12V (3.7W Max), * Lens opt (2.8, 3.6mm), * Switch Button (TVI/AHD/CVI/CVBS ), * Plastic, * D-WDR [Wide Dynamic Range](http://www.idealcctv.co.uk/wdr-what-wide-dynamic-range), * 2D-DNR, * Motion Detection, * IP67 Water and Dust Proof   **IMPRTANT:**   * All Cameras should be from known brand in CCTV industry with warranty of two years. * All outdoor cameras must be weatherproof with anti-vandalism as Mounts, Housings & Brackets should be included. * Preferable Video codec is H.265. * Cameras should record on motion detection and compatible with DVR. * WDR [Wide Dynamic Range](http://www.idealcctv.co.uk/wdr-what-wide-dynamic-range),…..). * All cameras and depends on type should have these basic features   Here below are basic common Cameras features  • 5 MP Audio Fixed Mini Bullet Camera  • 5 MP, 2560 × 1944 resolution  • Digital WDR  • 2.8 mm, 3.6 mm, 6 mm fixed focal lens  • Smart IR, up to 25 m IR distance  • Audio over coaxial cable, built-in mic  • 4 in 1 video output (switchable TVI/AHD/CVI/CVBS)  • IP67  • Image Sensor5 MP CMOS  • Max. Resolution2560 (H) × 1944 (V)  • Min. Illumination0.01 Lux@(F1.2, AGC ON), 0 Lux with IR  • Shutter Time  • PAL: 1/25 s to 1/50, 000 s  • NTSC: 1/30 s to 1/50, 000 s  • Day & NightICR  • Angle AdjustmentPan: 0 to 355°, Tilt: 0 to 75°, Rotation 0 to 355°  • Signal SystemPAL/NTSC  • Lens  • Lens Type2.8 mm, 3.6 mm, 6 mm fixed lens  • Focal Length & FOV  • 2.8 mm, horizontal FOV: 85.5°, vertical FOV: 63.7°, diagonal FOV: 110.7°  • 3.6 mm, horizontal FOV: 80.1°, vertical FOV: 63.7°, diagonal FOV: 105.9°  • 6 mm, horizontal FOV: 57.1°, vertical FOV: 43.1°, diagonal FOV: 72.5°  • Lens MountM12  • Image  • Image SettingsBrightness, Sharpness, Mirror, Smart IR  • Frame Rate  • TVI: 5MP@20fps, 4MP@30fps, 4MP@25fps, 1080P@30fps, 1080P@25fps  • CVI: 4MP@30fps, 4MP@25fps  • AHD: 5MP@20fps, 4MP@30fps, 4MP@25fps  • CVBS: PAL/NTSC  • Day/Night ModeAuto/Color/BW (Black and White)  • Image EnhancementBLC  • Noise Reduction2D DNR  • White BalanceATW/MANUAL  • AGCSupport  • Interface  • Video OutputSwitchable TVI/AHD/CVI/CVBS  • General  • MaterialPlastic  • Dimension58 mm × 61 mm × 158.6 mm (2.28" × 2.40" × 6.42")  • Approx. 160 g (0.35 lb.)  • Operating Condition-40° C to 60° C (-40° F to 140° F), Humidity 90% or less (no condensation)  • Power Supply  • 12 VDC ± 25%Brand required : Hikvision or equalivant  Brand required : Hikvision or equalivant | 5 | units |
| 4 | **Provision of installation service for the infrared cameras with all required accessories for installation purpose.**   * Bidder must provide all required equipment * Bidder must coordinate with technical and admin unit and share the work plan prior installation one (1) week advance | 5 | Unit |
| 5 | **DVR Device**   * 4 channel DVR 4MP Lite with Audio Recording Support (All Ch's), H.265Pro+ DVR, Max 6 IP Cameras Input (up to 6 MP) or (4HD + 2IP), Support The 3rd Party Cloud Storage, 1 SATA (each 6 TB Capacity), Video bit rate (32 Kbps to 6 Mbps), Plastic, Support HDTVI/AHD/CVI/CVBS/IP video input. * 4 channel DVR system should be from known brand (Compatible with Hikvision cameras) in Video Surveillance industry with latest technology and with at least two-year warranty. * The operating system can be windows-based operating system.   Below are required technical specs and features of the system. We do accept as well higher specs and features.   * Number of Channels ‎4 * Memory Storage Capacity ‎2 TB * Third-party network cameras supported * Up to 5 Megapixels resolution recording * HDMI and VGA output at up to 1920×1080P resolution * Standards connections HDMI, VGA, Ethernet Gig (2), USB. * Other: installation service is required; one device will be installed in UNHCR Offices as stated above. | 5 | Unit |
| 6 | **Monitor Screen 42 inch**   * Monitoring system should be installed in the Admin Officer’s office – UNHCR Sub-Office Ogoja * The system should consist of a 42” smart screen monitor * The monitor must have the ability to display a minimum of 4 Cameras without any jitters or delay in the live feed or recorded playback. * Other: installation service is required. | 1 | Unit |
| 7 | **Monitor Screen 32 inch**   * Monitoring system would be installed in a specified location during the installation process. * The system should consist of 32” Monitor * The monitor must have the ability to display a minimum of 4 Cameras without any jitters or delay in the live feed or recorded playback. * Other: installation service is required. | 4 | Unit |
| 8 | **Cable**  A physical separated network should be installed for the surveillance network, as the following specs   * 305m RG59 & Power Pro Coaxial Cable for CCTV Camera * Other: installation service is required. | 5 | Metre |
| 9 | **PVC conduit pipe for Cable**   * PVC specifications (25mm x 3m Rigid PVC Conduit (RPC) pipe) * Bidder must provide PVC conduit pipe to house the cable | 1 | Metre |

**NOTE:**

***The contractor has to function and test the CCTV system in the required locations and ensure the system is working properly and no contradiction between the devices.***

***The contractor is free seek guidance where necessary.***

***END OF SCOPE OF WORK***

**CCTV Camera Installation - Vendor Site Visit Schedule**

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| S/N | Location | Date | Time |
| 1 | UNHCR Calabar Office | 15/08/2023 | 10.00am |
| 2 | UNHCR AdIkpo Office | 17/08/2023 | 10.00am |
| 3 | UNHCR Takum Office | 22/08/2023 | 10.00am |
| 4 | UNHCR Ogoja Office/Guest house | 23/08/2023 | 10.00am |

P.S. Kindly, send an email to [NIGOGSUPPLY@UNHCR.ORG](mailto:NIGOGSUPPLY@UNHCR.ORG) to confirm your attendance for the locations.