

Survey Department of Sri Lanka

Technical specification for CCTV System – 2026

Annexure 01

1. Purpose and Scope

- **Purpose:** To procure fixed/varifocal dome IP cameras and associated accessories for Document Management & Professional Standards of Sri Lanka Survey department.
- **Scope:** Supply, delivery, installation, testing, commissioning, training, documentation and warranty support for dome IP cameras and all associated materials, software and accessories as required for a complete and operational CCTV system.

Item No.	Parameter	Required Specification	Bidder's Response (Exact Value/Model)	Compliance (Yes/No)
1.0	General Requirements			
1.1	Manufacturer Experience	Established OEM with min. [5] years in IP camera manufacturing.		
1.2	Local Support	Registered local agent in Sri Lanka with dedicated technical team.		
1.3	Certification	TRCSL Approval (if applicable) and CE/FCC/RoHS.		

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Item No.	Item & SLSI/ICTA Requirement	Detailed Technical Specification	Compliance (Yes/No)	Bidder's Remark / Deviation
1.0	5MP Full Colour Camera (2.8mm)	1/2.7" Progressive Scan CMOS; 2592×1944 @ 30fps; 2.8mm Fixed Lens (~103° HFOV); ColorVu/Starlight min. 0.005 Lux @ F1.0; 120dB True WDR; IP67 & IK10 Metal Housing; PoE (802.3af) Support.		
2.0	5MP Full Colour Camera (3.6mm)	Same as Item 1.0 but with 3.6mm Fixed Focal Lens (~87° HFOV) for medium-range outdoor coverage.		
3.0	24-CH Hybrid XVR Recorder	Hybrid Input (HDCVI/AHD/TVI/CVBS/IP); 8x SATA HDD Bays (up to 64TB); H.265+ Compression; Dual Gigabit Ethernet; 4K HDMI + VGA Output; ONVIF Profile S/G Compliant.		
4.0	Surveillance HDD (8TB)	8TB SATA 6Gb/s; Surveillance-optimized (WD Purple/SkyHawk); 180TB/year Workload Rate; 1 Million Hours MTBF; 3-Year Manufacturer Warranty.		
5.0	Power Supply (Lightning Protected)	12V 2A Regulated DC; IEC 61000-4-5 Surge Protection; IP66/67 Waterproof Metal Enclosure; Operating Temp -20°C to +60°C.		
6.0	Power Cable (TT Copper)	2×1.0mm ² Stranded Pure Copper (99.99% OFC); SLS 1177 / IEC 60227 Certified; UV-Resistant Outdoor PVC Jacket; Meter markings at 1m.		
7.0	Coaxial Cable (3C2V Copper)	75Ω Impedance; SLS 1208 Certified; Bare Copper Center Conductor; ≥95% Tinned Copper Braid Shielding; UV-Resistant PVC.		
8.0	BNC Connectors (A-Grade)	75Ω Matched; Gold-plated Center Pin (3-5μm); Nickel-plated Brass Body; MIL-PRF-39012 Compliant.		
9.0	32" 4K UHD Monitor	3840×2160 Native Resolution; IPS/VA Panel; HDMI 2.0 x2; VESA 100x100; SLSI/Energy Star Certified.		
10.0	Wireless Mouse			
11.0	Equipment Rack (5U)	5U Wall-Mount; 19" Standard; 450mm Depth; 1.2mm Cold-rolled Steel; Powder-coated EIA-310-D Compliant.		
12.0	General Warranty & Support	Minimum 3-year comprehensive warranty on Cameras/XVR/HDD; 2-year on Power/Monitor; 1-year on Cables/Connectors.		

Bidder's Signature

Company Name & Seal