

Detail Estimate of Procurement of Laptop Computers and all in one printer

Product	Quantity	Unit	Rate	Total amount	remarks
<p>Procurement of PTZ CCTV Camera :</p> <p>1. General Description The camera shall be a high-performance dual-lens network PTZ camera integrating both panoramic (fixed) and PTZ (zoom) channels within a single unit. support simultaneous wide-area monitoring and detailed zoom surveillance, suitable for road, highway, and public security applications.</p> <p>2. Camera Type & Architecture Type: Dual-lens IP PTZ Camera, Channels: Dual channel (Panorama + PTZ) in one IP, Function: Simultaneous overview + detail monitoring , Application: Outdoor road, junction, smart city surveillance</p> <p>3. Image Sensor & Resolution Panorama Sensor: 1/1.8" CMOS, 4MP, PTZ Sensor: 1/2.7" CMOS, 4MP, Resolution: 2688 × 1520 @ 30fps (each channel), Minimum Illumination: Panorama: 0.0005 lux (color), PTZ: 0.003 lux (color), WDR: 120 dB, Day/Night: Auto ICR</p> <p>4. Lens & Optical Zoom: Panorama Lens: 4 mm fixed lens, PTZ Lens: 4.8 mm – 120 mm motorized, Optical Zoom: 25× ,Field of View: Panorama: -94.9° (horizontal), PTZ: 55.46° to 3.09°</p> <p>5. PTZ Functionality: Pan Range: 360° continuous , Tilt Range: -15° to 90° , Pan/Tilt Speed: up to 80°/sec , Presets: Minimum 1024 positions , Functions: Auto patrol, auto tracking</p> <p>6. Night Vision & Illumination: IR Distance: Up to 100 meters (328 ft) , Warm Light Distance: Up to 30 meters , Night Mode: IR mode (Black & White) , Warm light mode (Full Color Night)</p> <p>7. Video Compression & Streaming: Compression: Ultra 265, H.265, H.264, MJPEG , Streams: Triple stream , Bitrate: 128 Kbps – 16 Mbps</p> <p>8. Smart AI Features: The camera shall support advanced intelligent analytics including: Intrusion detection , Cross line detection, Enter/Leave area detection, Human and vehicle detection, Auto tracking (PTZ follows target), People counting and crowd density monitoring</p> <p>9. Audio & Alarm Interface: Audio: 1 input / 1 output, Built-in speaker (two-way audio supported) , Alarm: 2 input / 1 output</p> <p>10. Storage: MicroSD Card Support: Up to 256GB / 512GB , Network storage via NVR supported</p> <p>11. Network & Protocol: Ethernet: RJ45 (10/100 Mbps) , ONVIF Profiles: S, G, M, T compliant , Remote Access: Web, CMS, Mobile App</p> <p>12. Power Supply: Power Input: DC 12V , PoE+ IEEE 802.3af , Power Consumption: Approx. 24W</p> <p>13. Environmental & Protection: Weatherproof Rating: IP66 , Operating Temperature: -40°C to +65°C , Suitable for outdoor installation (dust, rain resistant)</p> <p>14. Special Features: LightHunter technology for low-light clarity , ColorHunter (full color night with warm light) , Dual-lens intelligent linkage (wide + zoom tracking) , Sound & light alarm (active deterrence)</p> <p>15. Detection Distance (DORI Standard):Detect: up to 2475 m , Observe: up to 990 m , Recognize: up to 495 m , Identify: up to 247 m</p> <p>16. Compliance & Standards: at least 1 year warranty</p>	1	pcs	1		
<p>Procurement of Fix Bullet CCTV Camera :</p> <p>1. General Description: The camera shall be a 4 Megapixel fixed bullet type IP camera with ColorHunter full-color night vision technology, 24/7 outdoor surveillance applications such as roads, junctions, buildings, and public areas.</p> <p>2. Image Sensor & Video: Image Sensor: 1/1.8" CMOS , Resolution: 4MP (2688 × 1520) , Frame Rate: Up to 30fps , Video Compression: Ultra 265 / H.265 / H.264 / MJPEG , Triple Stream Support: Yes</p> <p>3. Lens & Field of View:Lens Options: 4.0mm / 6.0mm fixed lens , Focal Length (commonly used): 6.0mm , Horizontal Field of View: approx. 41° (6mm lens) , Vertical Field of View: approx. 35° , Optical Type: Fixed lens (non-motorized)</p> <p>4. Night Vision System:Minimum Illumination: 0.0005 lux (Color mode) , Night Technology: ColorHunter (Full Color Night Vision) , LED Type: White Light (Warm Light LEDs) , Illumination Distance: Up to 30 meters , Night Mode: Full Color (White light ON) , Smart IR / Low-light enhancement</p> <p>5. Image Enhancement Features: True WDR: 120 dB , 2D/3D Digital Noise Reduction (DNR) , HLC / BLC support , Auto White Balance , Smart Illumination Control , Corridor Mode (9.16 support)</p> <p>6. Smart AI Functions: Intrusion Detection , Cross-line Detection , Enter / Exit Area Detection , Human & Vehicle Classification , Smart Motion Detection (reduces false alarms) , People Flow Counting (depending configuration)</p> <p>7. Audio & Alarm Interface: Audio Input/Output: 1 in / 1 out , Built-in Microphone: Available (model dependent)</p> <p>8. Storage: MicroSD Card Support: Up to 256GB , Edge Recording Supported: Yes</p> <p>9. Network & Protocol: Ethernet Port: RJ45 (10/100 Mbps), Protocols: IPv4, TCP/IP, RTSP, HTTP, HTTPS, DHCP, DNS, NTP, ONVIF , ONVIF Compatibility: Yes (Profile S/G/T)</p> <p>10. Power Supply: Power Input: DC 12V ±25% , PoE Support: IEEE 802.3af , Power Consumption: approx. ≤ 9W</p> <p>11. Environmental Protection: Weatherproof Rating: IP67 , Vandal Resistance: IK10 , Operating Temperature: -30°C to +60°C, Humidity: ≤ 95% RH (non-condensing)</p> <p>12. Physical Characteristics: Housing Material: Metal body , Type: Large body bullet camera , Installation: Wall / Pole mount, Surge Protection: 4KV</p> <p>13. Special Technologies:ColorHunter Technology (24/7 full-color imaging) , Intelligent Human/Vehicle detection , Smart warm light illumination system , Low-light enhanced imaging engine. At least 1 year warranty</p> <p>14. Typical Applications:Road & Highway surveillance , Municipality security systems , Junction / chowk monitoring , Parking & public area surveillance</p>	2	pcs	1		
<p>16TB Surveillance Hard Disk Drive</p> <p>1. Physical Specifications Product Type: Internal Hard Disk Drive (HDD) , Form Factor: 3.5 inch , Capacity: 16 Terabyte (TB), Interface: SATA III (6 Gb/s) , Spindle Speed: 7200 RPM , Cache Memory: 256MB / 512MB (manufacturer variant dependent)</p> <p>2. Performance Specifications Designed Workload: Up to 550TB/year, Sustained Data Transfer Rate: Approx. up to 250 MB/s, Optimized for: Multi-stream HD / 4K video recording , Maximum Supported Cameras: Up to 64 HD cameras, AI Stream Support: Up to 32 AI channels, Surveillance Optimization Features, 24/7 continuous recording capability, ImagePerfect AI technology for smooth video streaming , Built-in vibration protection (RV sensors) , Optimized firmware for video surveillance workloads, Supports simultaneous recording from multiple IP cameras without frame loss</p> <p>3. Reliability & Durability Enterprise-grade endurance design, Mean Time Between Failures (MTBF): Up to 2.5 million hours (approx.) , Designed for high-temperature continuous operation, Rotational Vibration (RV) sensors for multi-drive NVR environments, Data integrity optimized for long-term storage</p> <p>4. Compatibility Compatible with all major NVR/DVR systems supporting SATA HDD, Suitable for IP surveillance systems, AI CCTV systems, and hybrid recording solutions, Supports RAID-based storage configurations</p> <p>5. Operating Conditions 24/7 continuous operation support, Designed for high write-load environments, Suitable for multi-bay NVR storage systems</p> <p>6. Brand & Model Brand: bidder Series: bidder Model Capacity: 16TB</p>	3	pcs	1		
<p>CAT-6 Cable</p> <p>The bidder shall supply Category 6 UTP Network Cable in original sealed roll of 305 meters, made of 100% solid bare copper conductor, minimum 23 AWG, 4 twisted pairs, suitable for CCTV surveillance, PoE devices, LAN and networking applications, complying with ANSI/TIA-568-C.2 and ISO/IEC standards.</p>	4	roll	1		
<p>Optical Fibre 6 core</p> <p>The bidder shall supply 6 Core Optical Fiber Cable, single mode OS2, outdoor grade, suitable for aerial, duct, or underground installation, UV resistant, waterproof, with minimum attenuation of 0.35 dB/km @1310nm and compliant with ITU-T G.652D standards.</p>	5	meter	1		
<p>Media Converter 1 Pair</p> <p>The bidder shall supply 1 pair of Gigabit Fiber Media Converter consisting of two units, each having 1 RJ45 Gigabit Ethernet port and 1 Fiber SFP port, suitable for single mode optical fiber transmission up to 20 KM, complete with power adapters and all accessories.</p>	6	ps	1		

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1. 1 Gbyte POE Switch General Description# The bidder shall supply 4 Port Gigabit Unmanaged Hi-PoE Switch with 4 Gigabit PoE Ports, 2 Gigabit SFP Uplink Ports, minimum 60W PoE budget, and all necessary features suitable for CCTV surveillance and networking systems.	pcs	1			
1. Installation: Camera Installation (Pole/Wall Mount) System Configuration & Network Setup Testing & Commissioning Miscellaneous	lot	1			
Total					
VAT @ 13%					
Grand Total					

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Detail Estimate of Procurement of All in one computer, Laptop Computers and Color printer

Product	Quantity	Unit	Rate	Total amount	remarks
All-in-One Desktop Computer 1. General Description The supplied equipment shall be branded All-in-One Desktop Computer from a reputed manufacturer, designed for professional, office, and institutional use. The system must be fully integrated (CPU + Monitor) with touchscreen capability and supplied with all necessary accessories 2. Processor (CPU): Minimum Intel Core i5, 13th Generation or higher, Model: Intel Core i5-13500T or equivalent/latest Minimum 14 Cores (6 Performance + 8 Efficiency), Base/Turbo Frequency up to 4.6 GHz or higher Minimum 24 MB Cache, Integrated Graphics: Intel UHD Graphics 770 or better Support for Intel vPro Technology 3. Display: Screen Size: Minimum 23.8 inches, Resolution: Full HD (1920 × 1080) or higher, Panel Type: IPS Touchscreen: Multi-touch enabled, Aspect Ratio: 16:9, Anti-glare coating preferred 4. Memory (RAM): Minimum 16 GB DDR5 RAM, Expandable up to at least 32 GB, At least one free slot for upgrade 5. Storage: Minimum 512 GB SSD (NVMe, M.2), Support for additional storage expansion 6. Connectivity: Wi-Fi 6 / 6E (802.11ax), Bluetooth (latest version supported), Ethernet: 10/100/1000 Mbps (RJ-45) 7. Ports & Interfaces: Minimum 1 × USB-C (Gen 2 or higher), Minimum 5 × USB-A ports, Minimum 1 × HDMI Input, Minimum 1 × HDMI Output, Minimum 1 × DisplayPort, Audio combo jack / line-out, All required standard ports must be available 8. Multimedia Features: Built-in Full HD Webcam (1080p), Integrated Dual Microphones, Built-in Stereo Speakers 9. Input Devices: Wireless Keyboard (same brand preferred), Wireless Optical Mouse 10. Operating System: Pre-installed Genuine Licensed, Windows 11 Professional (64-bit) 11. Build & Design: All-in-One integrated design, Slim and professional look, Color: Black / Silver/others: VESA Mount compatibility required 12. Security Features: Trusted Platform Module (TPM 2.0), BIOS/UEFI security features, Webcam privacy shutter or equivalent 13. Power: Energy efficient power supply, Compatible with Nepal standard voltage 14. Certifications: OEM must be ISO certified, Product must comply with international standards (CE/FCC or equivalent) 15. Warranty & Support: Minimum 1 Year On-site Warranty, Warranty coverage for parts and labor, Availability of authorized service center in Nepal 16. Accessories & Inclusions: Power cable, Necessary drivers and utilities, User manuals/documentation 17. Compliance: All items must be brand new and unused, Must meet or exceed all above specifications <i>Any deviation must be clearly stated</i>	1	pcs	1		
Laptop 1. General Description The laptop shall be a branded, high-performance 14-inch Ultrabook suitable for office, administrative, and professional use. The system must be compact, lightweight, and equipped with the latest processor, high-speed storage, and advanced connectivity. 2. Processor (CPU): Intel Core i7, 13th Generation (H-Series preferred), Model: i7-13700H or equivalent, Minimum 14 Cores, 20 Threads, Turbo Frequency up to 5.0 GHz, Minimum 24 MB Cache 3. Memory (RAM): Minimum 16GB DDR5 RAM, Speed: 4800 MHz or higher, Expandable up to 32GB 4. Storage: Minimum 1TB SSD (M.2 PCIe NVMe), Expandable storage support available 5. Display: Size: 14-inch, Resolution: Minimum 2.5K (2560 × 1600), Aspect Ratio: 16:10, Refresh Rate: Minimum 90Hz, Panel: Anti-glare WVA / IPS, Brightness: Minimum 300 nits, Color: bidder 6. Graphics: Integrated: Intel Iris Xe Graphics 7. Connectivity: Wi-Fi 6 / Wi-Fi 6E, Bluetooth, Gigabit wireless connectivity 8. Ports & Interfaces: Minimum: 1 × HDMI, 2 × USB Type-C (Thunderbolt 4 preferred), 1 × USB Type-A, 1 × Audio Combo Jack 9. Multimedia: Built-in Full HD (1080p) Webcam, Dual Digital Microphones, Stereo Speakers with Dolby Audio / Waves MaxxAudio 10. Keyboard & Input: Backlit Keyboard, Precision Touchpad 11. Operating System: Pre-installed Genuine Windows 11 Professional (64-bit) 12. Battery & Power: Battery: Minimum 54Wh or higher, Adapter: 90W / 130W depending on configuration 13. Build & Physical: Weight: Approx. 1.6 – 1.7 kg, Slim and lightweight design, Premium metallic finish 14. Security Features: Fingerprint Reader (optional but preferred), TPM 2.0, Webcam Privacy Shutter 15. Certifications: OEM must be ISO certified, Product must comply with CE/FCC or equivalent standards 16. Warranty: Minimum 1 Year Warranty (On-site preferred), Authorized service center available in Nepal 17. Accessories: Power adapter, Carry bag (preferred), Necessary drivers and manuals 18. Compliance: Brand new, unused product, Must meet or exceed all specifications. Equivalent or higher specification acceptable	2	pcs	1		
Color Ink Tank Printer 1. General Description The printer shall be a branded Color Ink Tank All-in-One Printer capable of printing, scanning, and copying with wireless connectivity, automatic document feeder, and high page yield suitable for office/municipality use. 2. Functions: Print, Scan, Copy (All-in-One), Color and Monochrome printing 3. Print Specifications: Printing Technology: Ink Tank (Refillable System), Maximum Print Resolution: 4800 × 1200 dpi or higher Print Speed (ISO): Minimum Black: Up to 11 ipm, Color: Up to 6 ipm, Duplex Printing: Automatic (Auto Duplex), Borderless Printing: Supported 4. Ink System: Ink Type: Pigment Black Ink, Dye-based Color Ink (Cyan, Magenta, Yellow) Page Yield: Black: Up to 7,600 pages, Color: Up to 8,100 pages 5. Scanner Specifications: Scanner Type: Flatbed + ADF (Auto Document Feeder), Sensor: CIS (Contact Image Sensor), Optical Resolution: 600 × 1200 dpi, Scan Size: Flatbed: A4, ADF: A4 / Legal 6. Copy Specifications: Copy Speed: Approx. 3.2 ipm (color), Maximum Copies: Up to 99 pages Copy Features: ID Copy, 2-on-1 / 4-on-1, Borderless Copy, Collate 7. Connectivity: USB 2.0, Wireless LAN (Wi-Fi IEEE 802.11 b/g/n) Wi-Fi Direct: Mobile Printing Support: AirPrint, Cloud Printing 8. Paper Handling/ Input Tray Capacity: Minimum 100 sheets, ADF Capacity: Approx. 35 sheets Supported Paper Sizes: A4, A5, B5, Letter, Legal Media Types: Plain paper, photo paper, envelopes 9. Display & Interface: minimum 2.7-inch Color Touchscreen LCD 10. Performance: Recommended Monthly Volume: 150 – 1500 pages, Duty Cycle: Up to approx. 3000 pages/month 11. Operating System Compatibility: Windows 10 / 11, macOS, Mobile OS (Android / iOS) 12. Power Requirements: AC 220-240V, 50/60Hz (compatible with Nepal standard) 13. Additional Features: Auto Duplex Printing, Auto Document Feeder (ADF), Mobile & Cloud Printing, High-capacity ink tank system 14. Warranty: Minimum 1 Year Warranty, Authorized service center support in Nepal 15. Accessories: Original ink bottles (full set), Power cable, Installation guide, Driver/software 16. Compliance: Brand new, unused product, Must meet or exceed all specifications, Equivalent or higher specification acceptable	3	pcs	1		
Total					
VAT @ 13%					
G.Total					

Approved



Detail Estimate of Procurement of Laptop Computers and all in one printer

Product	Quantity	Unit	Rate	Total amount	remarks
Procurement of Laptop : Processor & Performance Processor: Intel® Core™ i7-1355U (13th Gen), Cores/Threads: 10 Cores (2P + 8E), 12 Threads, Max Turbo Speed: Up to 5.0 GHz, Cache: 12MB Intel Smart Cache, Chipset: Intel Integrated SoC Memory (RAM): Installed RAM: 8GB DDR4 (3200 MHz), Configuration: Dual channel (2×4GB), Upgrade: Up to 16GB Storage Storage Type: 512GB PCIe NVMe SSD, Upgrade Support: Up to 1TB SSD Graphics GPU: Intel® Iris® Xe Graphics (Integrated) Display Size: 14-inch, Resolution: Full HD (1920 × 1080), Panel: IPS, Micro-edge, Brightness: ~250 nits, Features: Anti-glare, 45% NTSC Audio & Camera Speakers: Dual stereo speakers, Camera: 720p HD webcam, Microphone: Dual array digital mic (noise reduction) Connectivity Wi-Fi: Wi-Fi 6 (802.11ax), Bluetooth: Bluetooth 5.3 Ports 2 × USB 3.2 Type-A, 1 × USB Type-C, 1 × HDMI 1.4, 1 × Headphone/Mic combo, 1 × AC charging port Input & Design Keyboard: Full-size, backlit, Touchpad: Precision multi-touch, Weight: <=1.4 kg (lightweight), Color: bidder Battery & Power Battery: 3-cell Li-ion (~41Wh), Battery Life: Up to ~7-8 hours, Fast Charging: ~50% in 45 minutes Operating System & Software OS: Windows 11 Home, Software: MS Office Physical Dimensions Size: 32.37 × 21.5 × 1.79 cm, Weight: ~1.4 kg Warranty: at least 1 year	1	pcs			
Procurement of all in one printer : 1. General Information Type: Monochrome Laser Multifunction Printer, Functions: Print / Copy / Scan, Usage: Office, Government, Business, Home Office 2. Printing Specifications: Printing Technology: Monochrome Laser Beam Printing, Print Speed: Up to 27 pages per minute (A4), Print Resolution: 600 × 600 dpi, Enhanced Quality: Up to 1200 × 1200 dpi (equivalent), First Print Out Time (FPOT): Approx. 6 seconds, Warm-Up Time: Approx. 12 seconds or less, Print Language: UFR II LT, Duplex Printing: Automatic (Standard) 3. Copy Specifications: Copy Speed: Up to 27 copies per minute, Copy Resolution: 600 × 600 dpi, First Copy Time: Approx. 9 seconds, Max Copies: Up to 999 copies, Zoom Range: 25% - 400% (1% increment) Copy Features: ID Card Copy, 2-on-1 / 4-on-1, Memory sort 4. Scan Specifications: Scanner Type: Color CIS (Contact Image Sensor), Optical Resolution: Up to 600 × 600 dpi, Enhanced Resolution: Up to 9600 × 9600 dpi, Scan Speed: Mono: ~3 sec/page, Color: ~4 sec/page, Max Scan Size: A4 (216 × 297 mm), Color Depth: 24-bit, Scan Features: Scan to PC, Scan to Cloud (via MF Scan Utility), TWAIN / WIA compatible 5. Paper Handling: Input Capacity: 250-sheet cassette, 1-sheet manual tray, Output Capacity: 100 sheets Supported Paper Sizes: A4, A5, B5, Letter, Legal, Foolscap, Executive, Custom Size Range: Min: 76.2 × 127 mm, Max: 216 × 356 mm, Paper Weight: 60 - 163 g/m ² , Supported Media Types: Plain paper, Bond, Recycled, Labels, Envelope 6. Memory & Display: Memory: 128 MB, Display Panel: 5-line LCD (Black & White) 7. Connectivity: Interface: USB 2.0 (High Speed) 8. Operating System Compatibility: Windows (7 / 8 / 8.1 / 10), Mac OS, Linux 9. Power & Noise: Power Consumption: Max: 1150W, Operating: ~490W, Standby: ~4.1W, Sleep: ~1.3W Noise Level: Operation: ~52 dB, Standby: Very low 10. Physical Specifications Weight: ~10.8 kg (without cartridge), ~11.4 kg (with cartridge) 11. Consumables Toner Cartridge: Cartridge Yield: Standard: ~2400 pages, Starter: ~1700 pages 12. Duty Cycle: Maximum Monthly Duty Cycle: 15,000 pages 13. Key Features: Automatic Duplex Printing (Double-side), All-in-One (Print / Scan / Copy) Low running cost (laser technology), Easy maintenance (All-in-one cartridge system) 14. Warranty: at least 1 year	2	pcs			
Total					
VAT @ 13%					
G.Total					

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