



"शिक्षा स्वास्थ्य र पूर्वाधार, समुन्नत पुतलीबजारको आधार"

पुतलीबजार नगरपालिका

नगर कार्यपालिकाको कार्यालय

प.सः ०८२/८३

च.नः १८०

प्रगतिनगर, काठमाडौं

२०७३

गण्डकी प्रदेश, नेपाल

मिति : २०८३/०४/२१

विषय: दररेट उपलब्ध गराउने सम्बन्धमा।

श्री जो जससँग सम्बन्ध राख्दछ,

प्रस्तुत विषयमा यस पुतलीबजार नगरपालिका अन्तर्गतका विभिन्न वडा कार्यालयहरूमा सुरक्षा संवेदनशीलतालाई ध्यानमा राखी सीसीटीभी (CCTV) क्यामेरा जडान गर्ने कार्यका लागि आवश्यक पर्ने सामग्रीहरूको लागत अनुमान तयार गर्ने प्रयोजनार्थ यस कार्यमा संलग्न इच्छुक आधिकारिक फर्म, कम्पनी वा आपूर्तिकर्ताहरूले तपसिल बमोजिमका सामग्रीहरूको प्रति इकाई दररेट (भ्याट बाहेक) यो सूचना प्रकाशित भएको मितिले ७ (सात) दिनभित्र यस कार्यालयमा वा इमेल मार्फत उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ। साथै, पेश गरिएको दररेटको मान्यता अवधि कम्तिमा ६० दिनको हुनुपर्नेछ। तपसिल:

(आवश्यक सामग्रीहरूको विवरण):

क्र.स	सामग्री	ईकाई	संख्या	प्रति इकाई दर (without VAT)	
				संख्यामा	अक्षरमा
१	4.0 MP IR Network Dome camera	संख्या	१		
२	4.0 MP IR Fixed Bullet Network Camera	संख्या	१		
२	8-channel POE switch	संख्या	१		
३	8-channel PoE NVR	संख्या	१		
४	Surveillance-Grade Hard Drive	संख्या	१		
५	Network Cable (CAT6)	मिटर	१		
६	Monitor	संख्या	१		
७	Installation charge (जडान कार्य शुल्क)	प्रति क्यामेरा	१		

(नोट : साथै उल्लेखित सामग्रीहरूको specification, यसै साथ संलग्न गरिएको छ ।)

धर्मराज ढुंगाना

प्रमुख प्रशासकीय अधिकृत

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"व्यवसायिक र सिर्जनशील प्रशासन : विकास, समृद्धि र सुशासन"

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PUTALIBAZAR MUNICIPALITY
OFFICE OF THE MUNICIPAL EXECUTIVE
 Pratinagar, Rangja
 Gandaki Province, Nepal
Technical Specifications for CCTV Camera

4.0 MP IR Network Dome CAMERA

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	Image Sensor	1/3" Progressive Scan CMOS or better		
2	Resolution	Minimum 4.0 Megapixel (2560 × 1440)		
3	Video Compression	H.265+, H.265, H.264+, H.264 Support		
4	Frame Rate	Min 20fps @ 4MP; 25fps @ 1080p		
5	Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON); 0 Lux with IR		
6	Wide Dynamic Range	120 dB True WDR (Wide Dynamic Range)		
7	Lens Type	2.8 mm or 4 mm Fixed Lens (Horizontal FOV min 95°)		
8	Day & Night	IR Cut Filter with Auto Switch; IR range up to 30m		
9	Image Enhancement	3D Digital Noise Reduction (DNR) & BLC		
10	Network Interface	1 x RJ45 10M/100M self-adaptive Ethernet port		
11	Power Supply	12 VDC ± 25% & PoE (802.3af, Class 3)		
12	Ingress Protection	IP67 (Water & Dust Resistant)		
13	Protocols	ONVIF (Profile S/G), TCP/IP, IPv4/IPv6, RTSP		
14	Warranty	Minimum 1 Year Comprehensive Warranty		

4.0 MP IR Fixed Bullet Network Camera

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	Image Sensor	1/3" Progressive Scan CMOS or better		
2	Resolution	Minimum 4.0 Megapixel (2560 × 1440)		
3	Low Light Performance	Color: 0.01 Lux @ (F2.0, AGC ON); B/W: 0 Lux with IR		
4	Wide Dynamic Range	120 dB WDR (for clear images against backlight)		
5	Smart Analytics	Human and Vehicle Classification — Preferred, not mandatory (basic NVR-side motion detection is acceptable if not present on-camera)		
6	Video Compression	H.265+, H.265, H.264+, H.264		
7	Audio	Built-in Microphone for real-time audio security		
8	Illumination	Advanced IR technology (EXIR 2.0 or equivalent); IR range min. 30m		
9	Lens Options	2.8 mm or 4 mm Fixed Lens (Horizontal FOV min 98°)		
10	Protection Level	IP67 Water and Dust Resistant (Outdoor Rated)		
11	Network Interface	1 x RJ45 10M/100M self-adaptive Ethernet port		
12	Power	12 VDC ± 25% & PoE (802.3af, Class 3)		

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
13	Management	Support for Web Browser, NVR, and Mobile App (iOS/Android)		
14	Warranty	1 Year Comprehensive Manufacturer Warranty		

8-Channel PoE Switch

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	PoE Ports	8 x 10/100/1000 Mbps RJ-45 PoE Ports		
2	Uplink Ports	2 x 10/100/1000 Mbps RJ-45 Uplink Ports (Non-PoE)		
3	Standard	IEEE 802.3af/at Compliant (PoE+)		
4	Power Budget	Minimum 100W Total PoE Budget		
5	Switching Capacity	Minimum 20 Gbps		
6	Forwarding Rate	Minimum 14.88 Mpps		
7	Extend Mode	Support for Long-Range mode (Up to 250m)		
8	VLAN Support	Port Isolation mode supported via physical switch		
9	PoE Watchdog	Auto-detect and restart unresponsive cameras		
10	Surge Protection	Minimum 6KV for PoE ports		
11	Housing	Durable Metal Case (Fanless Design preferred)		
12	Certification	CE, FCC, RoHS or Equivalent		
13	Warranty	Minimum 1 Year Manufacturer Warranty		

8-Channel Network Video Recorder (NVR)

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	Video Input	8-channel IP camera input		
2	Recording Resolution	Minimum 4.0 Megapixel (2560×1440) per channel; up to 8MP support		
3	Video Compression	H.265+, H.265, H.264+, H.264		
4	Incoming Bandwidth	Minimum 80 Mbps		
5	Outgoing Bandwidth	Minimum 80 Mbps (independent HDMI/VGA output)		
6	Video Output	1× HDMI (4K capable) + 1× VGA, simultaneous independent output		
7	Storage Interface	Minimum 2× SATA interfaces		
8	HDD Support	Minimum 4TB per bay, Surveillance-rated (support up to 10TB+)		
9	Network Interface	1× RJ45 10/100/1000 Mbps self-adaptive Ethernet		
10	PoE	Non-PoE (standard NVR) — camera power via external managed PoE switch		
11	Protocols	ONVIF (Profile S), TCP/IP, DHCP, IPv4/IPv6, RTSP		
12	Smart Analytics	VCA support — motion detection 2.0, human/vehicle classification		
13	Remote Access	Mobile app (iOS/Android) + Web browser client		
14	USB	Minimum 2× USB 2.0/3.0 for backup and mouse		



S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
15	Two-Way Audio	1-ch RCA audio input/output		
16	Power Supply	12/48 VDC, standard AC adapter		
17	Warranty	Minimum 1 Year Comprehensive Warranty		

Surveillance-Grade Hard Drive

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	Capacity	Minimum 6.0 TB per drive (sized for 30-day retention, 5× 4MP cameras, H.265+)*		
2	Workload Rating	Surveillance-Grade (Optimized for 24/7 continuous writing)		
3	Interface	SATA 6 Gb/s		
4	Cache	Minimum 256 MB		
5	Rotation Speed	5400 RPM or 7200 RPM (Performance Class)		
6	Camera Support Rating	Rated for up to 64 HD Cameras (per manufacturer NVR compatibility rating)		
7	Reliability	Minimum 1 million hours MTBF (Mean Time Between Failures)		
8	Warranty	Minimum 1 Year Manufacturer Warranty		

Network Cable (CAT6)

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	Cable Type	CAT6 UTP (Unshielded Twisted Pair)		
2	Conductor Material	Solid Bare Copper (CCA – Copper Clad Aluminum – NOT allowed)		
3	Wire Gauge	23 AWG (Standard for high-quality Gigabit data)		
4	Jacket Material	High-Density Polyethylene (HDPE) or PVC (FR-PVC preferred)		
5	Transmission Frequency	Up to 250 MHz or higher		
6	Data Rate	Support for 10/100/1000 Mbps (Gigabit Ethernet)		
7	Standard	Compliant with ANSI/TIA-568.2-D and ISO/IEC 11801		
8	Packaging	305-meter (1000 ft) pull-box or roll		

Technical Specifications of Monitor

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
1	Display Size	Minimum 21.45-inch (Diagonal)		
2	Panel Type	In-Plane Switching (IPS) technology for wide viewing angles		
3	Resolution	Full HD (1920 x 1080 pixels)		

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प्रमुख प्रशासकीय अधिकृत

S.N.	Feature	Minimum Specification Required (Generic)	Bidder's Offered Spec	Compliance (Y/N)
4	Refresh Rate	Minimum 100 Hz		
5	Response Time	Maximum 4 ms (GtG/OD)		
6	Brightness	Minimum 250 cd/m ²		
7	Contrast Ratio	Minimum 1000:1 (Static)		
8	Color Gamut	Minimum 100% sRGB coverage		
9	Viewing Angle	Minimum 178° Horizontal / 178° Vertical		
10	Connectivity	At least 1 x HDMI (v1.4 or higher) and 1 x VGA (D-Sub)		
11	Audio	Built-in Speakers (Minimum 1W x 2)		
12	Eye Care	Must include Flicker-Free and Low Blue Light technology		
13	Mounting	VESA Wall Mount compatible (75 x 75 mm)		
14	Mechanical	Tilt adjustment support (approx. -5° to +15°)		
15	Power Supply	Compatible with Nepal's standard 220-240V AC (via DC adapter 12V)		
16	Warranty	Minimum 1 Year Manufacturer Warranty		

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धर्मराज ढुङ्गना
 प्रसाद