



ज्वालामूखी गाउँपालिका

गाउँकार्यपालिकाको कार्यालय

साँधभञ्ज्याङ, धादिङ

बागमती प्रदेश, नेपाल



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पत्र संख्या: २०८३/०८४

चलानी संख्या: २५१

मिति: २०८३/०५/२५

ने.स. ११४६

जोससंग सम्बन्धित

विषय: लागत अनुमानको लागि दररेट उपलब्ध गराइदिने सम्बन्धमा

प्रस्तुत विषयका सम्बन्धमा यस गा.पा. लाई आवश्यक पर्ने तपशील बमोजिमको नाम, Specifications भएका सामग्रीहरूको लागि लागत अनुमान तयार गर्नुपर्ने भएकोले सम्बन्धित क्षेत्रमा कार्य गर्ने सप्लायर्स, फर्म, कम्पनीहरूले उक्त सामग्रीहरूको दररेट ७ दिन भित्र यस गा.पा. मा उपलब्ध गराइदिनुहुन अनुरोध गर्दछु ।

S.N	Name	Specifications	Quantity	Rate
1.	2MP Dome Camera	• 2MP 1/2.7" CMOS mini dome camera with 1920 × 1080 resolution at 25/30 fps • Fixed 2.8mm/3.6mm lens, F1.6, with IR illumination up to 30m and minimum illumination 0.005 Lux • H.265/H.264 video compression with DWDR and 3D DNR • Supports motion detection, minimum 4 configurable areas, and intrusion/tripwire detection • RJ-45 10/100 Mbps network interface with MicroSD card support up to 256GB • Supports 12V DC and PoE power supply, with maximum power consumption up to 5W • IP67 weatherproof and IK10 vandal-resistant protection with metal housing	1 pc	

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2.	4MP Bullet Camera	• 4MP fixed-focal bullet network camera with 1/1.8" CMOS image sensor • Resolution 2688 × 1520 (4MP) at 25/30 fps • Fixed 3.6mm / 6mm lens with F1.0 aperture • Minimum illumination 0.0001 Lux @ F1.0 • Warm-light illumination range up to 50m • WDR supported for improved image quality in high-contrast lighting conditions • H.265 / H.264 / MJPEG video compression with Smart H.265+ / H.264+ support • Supports intrusion and tripwire detection • SMD Plus intelligent motion detection supported • MicroSD card support up to 256GB • RJ-45 10/100 Mbps Ethernet network interface • PoE support compliant with IEEE 802.3af • Supports 12V DC and PoE power supply • IP67 weatherproof protection • Operating temperature range from -40°C to +60°C • Metal and plastic housing suitable for outdoor installation • Approximate weight 0.66 kg	1 pc	
3.	Economical 8Port PoE	• 8 × RJ-45 PoE ports supporting 10/100/1000 Mbps	1 pc	

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		• 1 × RJ-45 Gigabit uplink port and 1 × 1000 Mbps SFP uplink port • Supports IEEE 802.3af/802.3at PoE standard with up to 30W output per port • Minimum 65W total PoE power budget • 20 Gbps switching capacity with Layer 2 switching • Unmanaged, plug-and-play operation • 9,216-byte jumbo frame support and minimum 2K MAC address table • Built-in power supply, 100–240V AC, 50/60Hz • Built-in surge and ESD protection • Metal housing, suitable for desktop installation • Operating temperature: –10°C to +55°C • CE/FCC or equivalent certification		
4.	32CH NVR	• 32-channel 1U Network Video Recorder with embedded Linux operating system • Supports up to 12MP IP camera resolution and minimum 160 Mbps recording bandwidth • Supports H.265+/H.265/H.264+/H.264 video compression • HDMI and VGA video outputs, with HDMI output up to 4K (3840 × 2160) • Supports 2 × SATA HDD interfaces, up to 20TB per HDD or higher • Supports ONVIF Profile T/S/G and compatible IP cameras	1 pc	

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		• Supports motion detection, intelligent/event-based recording and alarm functions • 1 × RJ-45 Gigabit Ethernet port (10/100/1000 Mbps) • Minimum 2 × USB ports for backup and peripheral devices • Supports remote monitoring through Android/iOS and web browsers • Supports 4-channel alarm input and 2-channel alarm output • 12V DC power supply Supports AI-based video analytics on up to 2 channels • Supports human/vehicle target detection on all channels, with target detection performance up to 12 targets/s • Supports face detection and recognition on up to 6 channels • Supports face attributes including gender, age group, glasses, expression, face mask and beard • Supports face detection, face recognition, perimeter protection, SMD Plus, people counting, stereo analysis and heat-map function		
5.	CAT 6 Cable indoor	• Category 6 U/UTP network cable, suitable for Ethernet, structured cabling and PoE applications • 4 pairs / 8-core solid copper conductor, 23 AWG • 100% copper conductor • Operating frequency up to 250 MHz • Characteristic impedance: $100 \pm 15 \Omega$ • Supports Gigabit Ethernet (10/100/1000 Mbps) transmission	1 roll	

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		• Suitable for PoE applications • HDPE insulation with PVC outer jacket • Cable length: 305 m per box • Compliant with ANSI/TIA-568.2-D / ISO/IEC 11801 Category 6 or equivalent • Flame-retardant performance complying with IEC 60332-1-2 or equivalent • Suitable for indoor installation		
6.	2 TB Surveillance Hard Drive	• 2TB surveillance-grade SATA hard disk drive, designed for 24/7 continuous recording • SATA III interface with minimum 5400 RPM rotational speed • Supports continuous video recording with high workload reliability • Compatible with NVR/DVR surveillance systems • Minimum 3-year manufacturer warranty	1 pc	
7.	24" Monitor	• 23.8" IPS LED display, Full HD 1920×1080 resolution • 16:9 aspect ratio with 178° horizontal/vertical viewing angle • Minimum 1200:1 contrast ratio and 250 cd/m² brightness • Minimum 144 Hz refresh rate • HDMI 2.0 and DisplayPort 1.4 inputs, supporting 1920×1080 @144Hz • 1 ms MPRT response time • 16.7 million display colors • Built-in 2 × 1W speakers and audio output • Low blue-light protection • Suitable for 7×16-hour operating cycle • VESA 75×75 mm mounting support • Tilt adjustment approximately -5° to	1 pc	

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		+15° • 12V DC power supply, maximum power consumption $\leq 21W$ • Operating temperature: 0°C to +40°C • CE/EMC or equivalent certification		
8.	Installation Accessories	• Junction boxes, mounting brackets, screws & anchors as required per camera type • Cable glands, ties and clips for cable management • Weatherproof sealant/tape for outdoor terminations • Grounding/earthing accessories • Miscellaneous consumables for professional installation	1 pc	
9.	pvc box	• Weather-resistant PVC junction box suitable for CCTV camera and cable connections • Suitable for outdoor/indoor installation • Minimum IP65 protection against dust and water • UV-resistant and corrosion-resistant construction • Adequate space for cable joints, connectors and power connections • Cable entry provisions with suitable glands/grommets • Secure screw/locking cover • Suitable for wall/ceiling mounting • Operating temperature: approximately -20°C to +60°C	1 pc	
10.	8MP ANPR camera	• 8MP 1/1.8" CMOS image sensor with 3840 × 2160 resolution at 25/30 fps • Motorized varifocal lens, 8-32mm, F1.6, suitable for 1-3 lane coverage • IR/Warm-light illumination up to 30m, with automatic/manual illumination control • Supports vehicle speed detection up to 180 km/h with speed accuracy of	1 pc	

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		±2 km/h below 100 km/h and ±2% at 100 km/h or above • Supports traffic violation detection including speeding, slow driving, wrong-way driving and illegal lane changes • Supports vehicle/traffic classification including lane, vehicle type, speed and date • Supports license plate recognition and captures plate number, plate color and vehicle information • Supports passenger and helmet detection and traffic congestion/illegal stopping detection • H.265/H.264/MJPEG video compression with maximum video bitrate up to 32 Mbps or higher • 1 × RJ-45 Ethernet interface with ONVIF Profile S/G/T/M support • Supports TF/MicroSD card storage up to 1TB • Supports 12V DC and PoE power supply • IP68 weatherproof and IK10 vandal-resistant protection		
11.	Warm Light Continuous LED Illuminator	• LED visible-light illuminator with 3500K warm white light • Illumination suitable for up to 3 standard lanes, with effective illumination distance of approximately 16–26m • Minimum luminous flux of 1800 lm • Beam angle approximately 10° × 30° • Supports continuous lighting with adjustable illumination levels • Supports trigger control through pulse-width/edge trigger	1 pc	

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		• Supports real-time monitoring of power, temperature and photosensitivity • Supports current and voltage exception detection • Power supply: 100–240V AC • Maximum power consumption: 60W • IP66 weather-resistant protection • Operating temperature: -40°C to $+70^{\circ}\text{C}$		
12.	Cardan bracket	• Suitable for mounting bullet cameras and protective enclosures • Constructed from aluminum alloy or equivalent durable material • Supports camera/enclosure weight of minimum 10 kg • Flexible/adjustable mounting mechanism for proper camera positioning • Suitable for outdoor installation • Operating temperature: -40°C to $+65^{\circ}\text{C}$ • Suitable for 0–90% RH, non-condensing	1 pc	
13.	G.I Pole With Arms	• Hot-dip galvanized iron/steel pole suitable for outdoor CCTV camera installation • Minimum pole height: 6 m • Minimum pole thickness: 3 mm • Minimum pole diameter: 75 mm • Suitable horizontal arm/bracket for mounting CCTV cameras • Minimum arm length: 1 m • Arm and pole shall have adequate load-bearing capacity for the proposed camera and accessories • Corrosion-resistant hot-dip galvanized finish suitable for outdoor installation • Provision for internal cable routing	1 pc	

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		through the pole		
		• Complete with base plate, anchor bolts and required mounting hardware • Pole shall be securely anchored to a suitable concrete foundation • Suitable for outdoor installation and local environmental conditions		
14.	8CH NETWORK VIDEO RECORDER	• 8-channel 1U Network Video Recorder with embedded Linux operating system and web/local GUI • Supports IP cameras up to 32MP resolution with minimum 384 Mbps incoming/recording bandwidth • Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG video compression • Supports decoding up to 32 × 1080p @ 30fps or 8 × 8MP @ 30fps • 1 × HDMI and 1 × VGA video output, with HDMI output supporting up to 8K (7680 × 4320) • Supports up to 8-channel playback with general, motion, intelligent and alarm recording modes • 2 × SATA HDD interfaces, supporting up to 20TB per HDD or 40TB total • Supports USB and network backup • Supports 4-channel alarm input and 2-channel alarm output • 1 × RJ-45 Gigabit Ethernet port (10/100/1000 Mbps) • Supports ONVIF Profile T/S/G/M for compatibility with IP cameras • Supports remote monitoring through Android/iOS and major web browsers • Supports AI functions including face detection/recognition, perimeter protection, SMD Plus,	1 pc	

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		video metadata and ANPR, where supported by compatible cameras • Supports ANPR on up to 8 channels, with license-plate database and allowlist/blocklist support • Supports people counting, heat map, PPE detection and vehicle-density analysis through compatible cameras • 12V DC, 4A power supply • Operating temperature: -10°C to $+55^{\circ}\text{C}$ • FCC/CE or equivalent certification		
15.	CAT 6 outdoor Cable	• CAT6 U/UTP network cable suitable for outdoor network cabling and PoE applications • 4 pairs / 8 cores, 24 AWG solid oxygen-free copper conductor • 100% copper conductor with characteristic impedance of $100 \pm 15 \Omega$ • Supports Gigabit Ethernet (10/100/1000 Mbps) and PoE applications • Cable length: 305 m per carton/box • HDPE insulation with MDPE/PVC outdoor-rated protective sheath • Black outer sheath suitable for outdoor installation • Maximum DC resistance: 9.5 Ω/100 m • Minimum insulation resistance: 5000 $M\Omega \cdot \text{km}$ • Operating temperature: -20°C to $+60^{\circ}\text{C}$ • Installation bending radius: greater than $8 \times$ cable outer diameter	1 pc	

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		• Water-resistant outdoor construction suitable for exposed cabling • Flame-retardant performance complying with IEC 60332-1-2 • RoHS compliant • Compliant with CAT6 / ANSI/TIA-568.2-D or equivalent standard		
16.	6 core optical fiber cable	• 6-core single-mode optical fiber cable suitable for CCTV/network backbone applications • Minimum 6 optical fibers, suitable for Gigabit Ethernet transmission • 9/125 μm single-mode fiber (OS2) • Low-loss fiber with suitable attenuation for the required transmission distance • Outdoor-rated, UV-resistant and moisture-resistant protective sheath • Suitable for installation in duct, conduit or outdoor cable routes • Central strength member and suitable mechanical protection • Operating temperature: approximately -20°C to $+60^{\circ}\text{C}$ or better • Minimum tensile strength suitable for outdoor installation • Compliant with applicable ITU-T G.652.D / ISO/IEC or equivalent standards • Cable shall be supplied with suitable termination/accessories as required for installation	1 pc	
17.	Optical patch Cord 5 Mtr	• 5-meter single-mode optical fiber patch cord • OS2, 9/125 μm fiber suitable for Gigabit Ethernet/CCTV network transmission • Suitable connector type (LC/SC as required by the installed equipment) • Low insertion loss and high return loss • Durable PVC/LSZH outer jacket • Connector ends shall be properly	1 pc	

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		- protected against dust and damage • Suitable for indoor network/rack installation • Compliant with applicable IEC/ISO/ITU-T standards or equivalent • Length: 5 meters		
18.	Tiffin	• Designed to be an outdoor usage. • Single hinged splice tray enables access for working • Easy to install and Long life • Applications :Optical Fiber Network, Telecommunications networks, FTTH, FTTx, FTTP, OSP, CATV • Suitable connector type (LC/SC as required by the installed equipment)	1 pc	
19.	Outdoor Metal Junction Box	• Outdoor-rated metal junction box suitable for CCTV, power and network cable connections • Corrosion-resistant galvanized steel or equivalent metal construction • Minimum IP65 protection against dust and water • Weatherproof and UV-resistant for outdoor installation • Lockable/secure cover with suitable sealing gasket • Adequate internal space for cable joints, connectors and accessories • Suitable cable entry provisions with cable glands/grommets • Provision for wall/pole mounting • Operating temperature: approximately -20°C to +60°C or better	1 pc	

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20.	Single-Mode GE SFP in pair	• Pair of single-mode Gigabit Ethernet SFP transceivers for fiber-optic network links • Supports 1000 Mbps Gigabit Ethernet transmission • Single-mode fiber, 9/125 μm (OS2) • Suitable for duplex single-mode fiber transmission • Compatible with standard SFP ports on network switches/NVRs • Transmission distance: minimum 10 km • Operating wavelength: 1310 nm or 1550 nm, as compatible pair • Hot-swappable SFP form factor • Plug-and-play operation without requiring proprietary configuration • Compliant with IEEE 802.3 / SFP MSA or equivalent standards	1 pc	
21.	4 TB Surveillance Hard Drive	• 4TB capacity surveillance-grade hard disk drive • SATA interface, suitable for NVR/DVR systems • Designed for 24/7 continuous video recording • Suitable for continuous write workload and multiple-camera surveillance systems • Minimum 5400 RPM or equivalent surveillance-grade performance • Compatible with the proposed NVR/DVR • Supports reliable operation under continuous surveillance workload • Minimum 3-year manufacturer warranty	1 pc	
22.	22 Inch Monitor	• 21.45-22" VA LED display • Full HD (1920 $\times$ 1080) resolution • Minimum 250 cd/m² brightness • Minimum 3000:1 contrast ratio • Minimum 100 Hz refresh rate • Response time $\leq$ 5 ms		

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		• Viewing angle $\geq 178^\circ$ (H/V) • 16.7 million display colors • Minimum 72% NTSC color gamut • 1 x HDMI and 1 x VGA input • VESA 75 x 75 mm mounting support • 12V DC power supply • Power consumption $\leq 24W$ • Operating temperature: $0^\circ C$ to $+40^\circ C$ • Operating humidity: 10%–85% RH, non-condensing • Supplied with HDMI cable, adapter and monitor stand/pedestal • Suitable for CCTV monitoring and general IT applications	1 pc	
23.	4 U Server Rack	• 4U, standard 19-inch server rack enclosure • Rack-mount type suitable for servers, NVRs, switches and network equipment • Standard 19-inch mounting rails • Steel construction with durable powder-coated finish • Lockable front door and removable side panels • Adequate ventilation for heat dissipation • Cable entry provisions for power and network cables • Suitable for rack-mounted power distribution units (PDU) • Complete with mounting hardware, cage nuts and screws	1 pc	
24.	10 sq mm power cable	• 10 sq. mm (mm²) copper armoured power cable • PVC/XLPE insulated, suitable for outdoor/underground laying • Rated voltage 1.1 kV • Multi-strand copper conductor for flexibility • UV and moisture-resistant outer sheath	1 pc	
25.	Fiber and power cable laying charge		1 pc	

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हरेराम साह
प्रमुख प्रशासकीय अधिकृत



ज्वालामुखी गाउँपालिका



गाउँकार्यपालिकाको कार्यालय

साँघमञ्ज्याङ, धादिङ

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26.	optical fiber splicing	• Fusion-splicing service for single-mode/multi-mode fiber • Includes splice tray/closure installation • OTDR testing and loss measurement per splice • Typical splice loss ≤ 0.05 dB per joint	1 pc	
27.	64 Channel 4HDD NVR	• 64-channel IP NVR with embedded Linux and web/local GUI • Minimum 384 Mbps incoming and recording bandwidth • Supports IP cameras up to 32MP resolution or higher • H.265+/H.265/H.264+/H.264/MJPEG video compression • Decoding support up to 32MP and minimum 32-channel 1080p playback/decoding • 2 × HDMI and 2 × VGA video outputs, with HDMI supporting up to 4K • Multi-screen display with at least 1/4/8/9/16/25/36/64-screen layouts • Up to 16-channel simultaneous playback • 4 × SATA HDD interfaces, supporting up to 16TB per HDD or higher • 1 × eSATA interface and USB ports for backup • Minimum 16 alarm inputs and 6 alarm outputs • 1 × audio input and 2 × audio outputs • 2 × Gigabit RJ-45 network ports • ONVIF Profile T/S/G and support for third-party IP cameras • Mobile access through Android/iOS and remote browser access • Recording modes including continuous, motion, intelligent and alarm-based recording • USB and network backup • AI features including face detection/recognition, perimeter	1 pc	

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		protection, SMD, video metadata and ANPR • ANPR support with minimum 20,000 license-plate database capacity and allowlist/blocklist • People counting, heat map and vehicle/human classification through compatible cameras • 16-channel camera-based AI support or equivalent • 100–240V AC, 50/60Hz power supply • Rack or desktop installation • Operating temperature: -10°C to $+55^{\circ}\text{C}$ • FCC/CE/UL or equivalent certification		
28.	10 Port POE	• 10-port unmanaged Gigabit switch with 8 PoE ports • Total PoE power budget $\geq 65\text{ W}$ (IEEE 802.3af/at) • 1 × Gigabit uplink port + 1 × SFP fiber uplink port • Plug-and-play, no configuration required • Metal casing with built-in surge/lightning protection	1 pc	
29.	20 Port Cloud Managed Gigabit 16 Port PoE	• 20-port Layer 2 smart/cloud-managed Gigabit switch • 16 × RJ-45 Gigabit PoE ports (10/100/1000 Mbps) • 2 × RJ-45 Gigabit uplink ports and 2 × 1000 Mbps SFP uplink ports • Supports IEEE 802.3af/at and IEEE 802.3bt PoE standards • Minimum total PoE budget of 135W • Up to 90W PoE output on designated high-power ports and up to 30W per standard PoE port • Intelligent PoE and PoE power management • Long-distance PoE support • Switching capacity minimum 40 Gbps and forwarding rate minimum	1 pc	

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		29.76 Mpps • Minimum 8K MAC address table and 15KB jumbo frame support • VLAN, STP/RSTP and IEEE 802.3x flow control • Web, mobile app and cloud-based management • DHCP client support • Built-in 100–240V AC power supply, 50/60Hz • Built-in surge/lightning and ESD protection • Full-metal housing suitable for desktop or rack mounting • Operating temperature: –10°C to +55°C • Operating humidity: 5%–95% RH, non-condensing • CE/FCC or equivalent certification		
30.	6 TB Surveillance Hard Drive	• 3.5" SATA III surveillance-grade hard drive, 6 TB capacity • 24×7 continuous duty cycle rated • Rotational speed 5,400–7,200 RPM; cache ≥ 256 MB • High MTBF and vibration-tolerant design • Compatible with NVR/DVR and RAID configurations	1 pc	
31.	9U rack	• 19" standard 9U wall-mount/floor-standing rack enclosure • Mild-steel construction, powder-coated finish • Ventilated/perforated door for airflow • Cable-management accessories included • Lockable; suitable for NVR/switch/patch-panel mounting	1 pc	
32.	55" Surveillance Monitor	• 55" VA LED display with 4K UHD resolution of 3840×2160 • 16:9 aspect ratio with 178° horizontal/vertical viewing angle	1 pc	

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		• Minimum 400 cd/m² brightness and 5000:1 contrast ratio • Minimum 60 Hz refresh rate • Response time ≤6.5 ms • Flicker-free and low blue-light protection • 2 × HDMI 2.0 supporting 3840×2160 @60Hz • 1 × VGA supporting up to 1920×1080 @60Hz • Minimum 2 × USB ports, 1 × audio input and 1 × audio output • RS-232 input for external control/management • Built-in speakers, minimum 2 × 10W • Suitable for continuous 24/7 operation • Built-in 100–240V AC, 50/60Hz power supply • Maximum power consumption ≤104W • VESA 200×300 mm mounting support • Operating temperature: 0°C to +40°C • Operating humidity: 10%–85% RH • CE/EMC, CE/LVD or equivalent certification		
33.	Installation Charge		Total	

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