



सुन्दरहरैँचा नगरपालिका
नगरकार्यपालिकाको कार्यालय
विराटचोक, मोरङ
कोशी प्रदेश, नेपाल

CCTV, attendance लगायत अन्य Networking उपकरणहरुको दररेट पेश गर्ने सम्बन्धी सूचना !

प्रकाशित मिति: २०८२/०९/२१

प्रस्तुत विषयमा यस सुन्दरहरैँचा नगरपालिका नगरकार्यपालिकाको कार्यालयको लागि आवश्यक पर्ने तपसिलको CCTV, attendance लगायत अन्य Networking उपकरणहरुको दररेट बनाउने प्रयोजनका लागि सम्बन्धित विषयको काम गर्न योग्य तथा इच्छुक सप्लायर्स, फर्म, कम्पनी वा संस्थाहरुलाई सिलबन्दी खाममा फर्म, संस्था वा कम्पनी दर्ताको प्रमाणपत्र, व्यवसाय दर्ताको प्रमाणपत्र, मूल्य अभिवृद्धि कर दर्ता प्रमाणपत्र र स्थायी लेखा दर्ता नम्बर(प्यान) प्रमाणपत्र, मूल्य अभिवृद्धि करमा दर्ता हुन नपर्नेको हकमा सोको आधिकारीक कागजातको प्रमाणित, करचुक्ता प्रमाणपत्र वा आय विवरण पेश गरेको प्रमाणित कागजात वा आय विवरण पेश गर्न म्याद थप भएको निस्सा वा प्रमाण र निवेदन संलग्न गरी सात दिन भित्रमा सूचिकृत भएका वा सूचीकृत भई सेवा दिन चाहेका सप्लायर्स, फर्म, संस्था वा कम्पनीहरुलाई दररेट पेश गर्नका लागि अनुरोध छ ।

नोट: BOQ <https://sundarharaichamun.gov.np> बाट प्राप्त गर्न सकिने छ ।

श्री सुन्दरहरैचा नगरपालिका
नगरकार्यपालिकाको कार्यालय
विराटचोक, मोरङ ।

गणेश प्रसाद अधिकारी
मुख्य प्रशासकीय अधिकारी



विषय: सुन्दरहरैचा नगरपालिकाको लागि CCTV, attendance लगायत अन्य Networking उपकरणहरूको दररेट उपलब्ध गराइएको सम्बन्धमा ।

| S.N | Particulars | Required Specifications | Unit | Quantity | Rate |
|-----|-------------------|-------------------------|------|----------|------|
| 1 | Attendance Device | Model | pcs | 1 | |
| | | Authentication Type | | | |
| | | Face Capacity | | | |
| | | Fingerprint Capacity | | | |
| | | ID Card Capacity | | | |
| | | Record Capacity | | | |
| | | Communication | | | |
| | | Standard functions | | | |
| | | Built in Backup battery | | | |
| | | Verification time | | | |
| | | Display screen | | | |
| | | Warranty | | | |
| 2 | Attendance Device | Model | pcs | 1 | |
| | | Authentication Type | | | |
| | | Face Capacity | | | |
| | | Fingerprint Capacity | | | |
| | | ID Card Capacity | | | |
| | | Record Capacity | | | |
| | | Communication | | | |
| | | Standard functions | | | |
| | | Built in Backup battery | | | |
| | | Verification time | | | |
| | | Display screen | | | |
| | | Warranty | | | |
| 3 | Attendance Device | Model | pcs | 1 | |
| | | Authentication Type | | | |
| | | Fingerprint Capacity | | | |
| | | ID Card Capacity | | | |
| | | Record Capacity | | | |
| | | Communication | | | |
| | | Standard functions | | | |
| | | Built in Backup battery | | | |
| | | Verification time | | | |
| | | Display screen | | | |
| | | Warranty | | | |

गणेश राज कौशल
प्रमुख प्रशासकीय अधिकृत



| S.N | Particulars | Required Specifications | unit | Qty | Rate |
|-----|--|-----------------------------------|------|-----|----------|
| 4 | 24+4 Layer 3 Managed Access Non PoE Switch | Brand | pcs | 1 | रु. २०७३ |
| | | Manufacturer,Country | | | |
| | | Model | | | |
| | | Service Ports | | | |
| | | Management Port | | | |
| | | USB port | | | |
| | | switching capacity | | | |
| | | Forwarding rate | | | |
| | | CPU | | | |
| | | Memory | | | |
| | | Fan | | | |
| | | PoE | | | |
| | | MAC address table | | | |
| | | ARP table size | | | |
| | | Number of IPv4 routes | | | |
| | | Number of IPv6 routes | | | |
| | | Rack height | | | |
| | | Power Input | | | |
| | | Power Output | | | |
| | | Power Consumption | | | |
| | | Surge Protection | | | |
| | | VLAN | | | |
| | | remote monitoring and maintenance | | | |
| | | Accessories | | | |
| | | Warranty | | | |
| 5 | 24+4 Layer 3 Managed Access PoE Switch | Brand | pcs | 1 | रु. २०७३ |
| | | Manufacturer,Country | | | |
| | | Model | | | |
| | | Service Ports | | | |
| | | Management Port | | | |
| | | USB port | | | |
| | | switching capacity | | | |
| | | Forwarding rate | | | |
| | | CPU | | | |
| | | Memory | | | |
| | | Fan | | | |
| | | PoE port | | | |
| | | MAC address table | | | |
| | | ARP table size | | | |
| | | Number of IPv4 routes | | | |
| | | Number of IPv6 routes | | | |
| | | Rack height | | | |
| | | Power Input | | | |

2/2/2021
8/2/2021
गठानुसार मासिक आय अधिकृत



| S.N | Particulars | Required Specifications | unit | Qty | Rate |
|-----|--|---|------|-----|------|
| | | Power Output | | | |
| | | Built-in power supply: 409 W | | | |
| | | Power Consumption | | | |
| | | 35 W (non-PoE), 405 W (PoE full load) | | | |
| | | Surge Protection | | | |
| | | Power port: common mode 6 kV, differential mode 8 kV, Communication port: 10 kV | | | |
| | | VLAN | | | |
| | | 4000 or more | | | |
| 6 | 12+4 Layer 3 Managed Access PoE Switch | remote monitoring and maintenance | pcs | 1 | |
| | | Cloud or similar platform management | | | |
| | | Accessories | | | |
| | | Required accessories | | | |
| | | Warranty | | | |
| | | 2 years | | | |
| | | Brand | | | |
| | | | | | |
| | | Manufacturer,Country | | | |
| | | | | | |
| | | Model | | | |
| | | | | | |
| | | Service Ports | | | |
| | | 12 x 10/100/1000BASE-T ports, supporting PoE/PoE+, 4 x 1GE/10GE SFP+ ports | | | |
| | | Management Port | | | |
| | | 1xRJ45 console port | | | |
| | | USB port | | | |
| | | 1 or more with no capacity limit | | | |
| | | switching capacity | | | |
| | | 104 Mbps | | | |
| | | Forwarding rate | | | |
| | | 78 Mbps | | | |
| | | CPU | | | |
| | | Dual-core CPU, each core with the clock speed of 1.0 GHz | | | |
| | | Memory | | | |
| | | 1 GB, Flash memory 512 MB | | | |
| | | Fan | | | |
| | | Fan based with proper airflow | | | |
| | | PoE port | | | |
| | | All RJ45 ports support PoE/PoE+ (IEEE802.3af/at) power supply | | | |
| | | MAC address table | | | |
| | | 16000 | | | |
| | | ARP table size | | | |
| | | 4000 | | | |
| | | Number of IPv4 routes | | | |
| | | unicast-6000,multicast-1000 | | | |
| | | Number of IPv6 routes | | | |
| | | unicast-2000,multicast-750 | | | |
| | | Rack height | | | |
| | | 1U | | | |
| | | Power Input | | | |
| | | AC input: Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz;Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz;Maximum input current: 6 A | | | |
| | | Power Output | | | |
| | | Built-in power supply: 409 W | | | |
| | | Power Consumption | | | |
| | | 35 W (non-PoE), 405 W (PoE full load) | | | |
| | | Surge Protection | | | |
| | | Power port: common mode 6 kV, differential mode 8 kV, Communication port: 10 kV | | | |
| | | VLAN | | | |
| | | 4000 or more | | | |
| | | remote monitoring and maintenance | | | |
| | | Cloud or similar platform management | | | |
| | | Accessories | | | |
| | | Required accessories | | | |
| | | Warranty | | | |
| | | 2 years | | | |
| 7 | SDWAN Router | Brand | pcs | 1 | |
| | | Manufacturer,Country | | | |
| | | Model | | | |
| | | | | | |
| | | Ports | | | |
| | | 4x10/100/1000BASE-T,4x10/100/1000/2500BASE-T, 2x10GE SFP+ ports, 1xfixed LAN, 1xfixed WAN | | | |
| | | CPU | | | |
| | | Quad-core processor, 1.8 GHz clock frequency per core | | | |
| | | Flash Memory | | | |
| | | 128 MB | | | |
| | | RAM | | | |
| | | 4 GB | | | |
| | | Concurrent clients | | | |
| | | 1500 | | | |
| | | Throughput | | | |
| | | 4000Mbps | | | |
| | | Rack height | | | |
| | | 1U | | | |
| | | Local Syslog Storage | | | |
| | | 2.5" SATA HDD Extension Bay | | | |

| S.N | Particulars | Required Specifications | | unit | Qty | Rate |
|-----|-------------------------------|--|---|------|-----|------|
| | | Other features | easy intranet connection, terminal recognition for easy management and bandwidth, easy VPN configuration | | | |
| | | Warranty | 2 years | | | |
| 8 | Cloud managed Router | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Ports | 5×10/100/1000BASE-T, 3×fixed LAN, 1×fixed WAN | | | |
| | | CPU | Dual-core processor, 880 MHz clock frequency per core | | | |
| | | Flash Memory | 32 MB | | | |
| | | RAM | 128 MB | | | |
| | | Concurrent clients | 100 | | | |
| | | Throughput | 1000 Mbps (Turbo Mode), 600Mbps(Normal mode) | | | |
| | | Other features | Self organizing network, centralized network management, cloud portal authentication, remote monitoring and maintenance | | | |
| | | Warranty | 2 years | | | |
| 9 | Cloud managed Firewall | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Firewall throughput of IPv4 packets | 10 Gbps | | | |
| | | Firewall throughput (packets per second) | 1.8 Mpps | | | |
| | | Concurrent sessions (TCP) | 500000 | | | |
| | | New sessions/second (TCP) | 50000 | | | |
| | | Firewall policies | 3000 | | | |
| | | SSL VPN throughput(1392-byte) | 1.7 Gbps | | | |
| | | Concurrent SSL VPN users (recommended maximum, tunnel mode) | 500 | | | |
| | | Application control throughput (HTTP 64K)2 | 3 Gbps | | | |
| | | IPsec VPN throughput (512-byte) | 2.6 Gbps | | | |
| | | Gateway-to-gateway IPsec VPN tunnels | 1000 | | | |
| | | Rack height | 1 U | | | |
| | | Fixed service port | 8 x 10/100/1000BASE-T ports 1 x GE SFP port 1 x 10GE SFP+ port | | | |
| | | Fixed management port | 1 x RJ45 MGMT port (reusing Ge0/0) 1 x RJ45 console port (RS-232) | | | |
| | | USB port | 2 x USB 2.0 ports | | | |
| | | Connector Type | SATA | | | |
| | | Memory Capacity | 1 TB | | | |
| | | Hard Disk Type | Hard disk drive | | | |
| | | Maximum Power Consumption | 14 W | | | |

| S.N | Particulars | Required Specifications | | unit | Qty | Rate |
|-----|-------------------------|-----------------------------------|--|------|-----|------|
| | | Warranty | 2 years | | | |
| 10 | Network switch(Layer 2) | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Ports | 26-Port Gigabit managed switch(24×10/100/1000 Base-T PoE+ ports, 2SFP uplink) | | | |
| | | switching capacity | 52 Gbps or higher | | | |
| | | Forwarding rate | 38 Mbps or higher | | | |
| | | Fan | Built in fan | | | |
| | | PoE | 370 W or higher at IEEE 802.3at/IEEE 802.3af | | | |
| | | MAC address table | 8000 | | | |
| | | Surge Protection | 4kV | | | |
| | | VLAN | upto 15 or higher | | | |
| | | remote monitoring and maintenance | yes, cloud manageable like VLANS, monitoring switch statistics | | | |
| | | Accessories | mounting bracket, screws, power supply and other essentials | | | |
| | | Warranty | 2 years | | | |
| 11 | Network switch(Layer 2) | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Ports | 20-Port Gigabit Managed switch(18×10/100/1000 Base-T, 16 PoE+ ports, 2RJ45, 2SFP) | | | |
| | | switching capacity | 40 Gbps or higher | | | |
| | | Forwarding rate | 29 Mbps or higher | | | |
| | | Fan | Built in fan | | | |
| | | MAC address table | 8000 | | | |
| | | Surge Protection | 4kV | | | |
| | | PoE | 250 W or higher at IEEE 802.3at/IEEE 802.3af | | | |
| | | VLAN | upto 15 or higher | | | |
| | | remote monitoring and maintenance | yes, cloud manageable like VLANS, monitoring switch statistics | | | |
| | | Accessories | mounting bracket, screws, power supply and other essentials | | | |
| | | Warranty | 2 years | | | |
| 12 | Network switch(Layer 2) | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Ports | 10-Port Gigabit Managed switch(10×10/100/1000 Base-T, 8 PoE+ ports, 1 ×1G RJ45, 1×1G Combo) | | | |
| | | switching capacity | 20 Gbps or higher | | | |
| | | Forwarding rate | 14 Mbps or higher | | | |
| | | PoE | 250 W or higher at IEEE 802.3at/IEEE 802.3af | | | |
| | | MAC address table | 4000 | | | |
| | | Surge Protection | 6kV | | | |
| | | VLAN | upto 15 or higher | | | |
| | | remote monitoring and maintenance | yes, cloud manageable like VLANS, monitoring switch statistics | | | |
| | | Accessories | mounting bracket, screws, power supply and other essentials | | | |
| | | Warranty | 2 years | | | |
| | | Brand | | | | |
| | | Manufacturer,Country | | | | |

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गणेशजी काका
मुमुक्षु प्रसासकीय अधिकृत



| S.N | Particulars | Required Specifications | | unit | Qty | Rate | |
|-----|------------------------|-------------------------|--|------|-----|------|--|
| 13 | PoE switch with SFP | Model | | pcs | 1 | | |
| | | Ports | 4 x 10/100/1000Mbps PoE ports, and and 2 x 10/100/1000 Mbps SFP ports. | | | | |
| | | Layer Type | Unmanaged | | | | |
| | | switching capacity | 12 Gbps or higher | | | | |
| | | Forwarding rate | 8 Mbps or higher | | | | |
| | | Forwarding mode | Store and forward switching | | | | |
| | | MAC address table | 2000 | | | | |
| | | Surge Protection | 6kV | | | | |
| | | Warranty | 1 year+ | | | | |
| 14 | PoE network switch | Brand | | pcs | 1 | | |
| | | Manufacturer,Country | | | | | |
| | | Model | | | | | |
| | | Ports | 4 x 10/100Mbps PoE ports, and and 2 x 10/100Mbps RJ45 ports. | | | | |
| | | Layer Type | Unmanaged | | | | |
| | | switching capacity | 1.2 Gbps or higher | | | | |
| | | Forwarding rate | 0.75 Mbps or higher | | | | |
| | | Forwarding mode | Store and forward switching | | | | |
| | | MAC address table | 2000 | | | | |
| 15 | PoE network switch | Brand | | pcs | 1 | | |
| | | Manufacturer,Country | | | | | |
| | | Model | | | | | |
| | | Ports | 8x 10/100Mbps PoE ports, and and 2 x 10/100/1000Mbps RJ45 ports. | | | | |
| | | Layer Type | Unmanaged | | | | |
| | | switching capacity | 5 Gbps or higher | | | | |
| | | Forwarding rate | 4 Mbps or higher | | | | |
| | | Forwarding mode | Store and forward switching | | | | |
| | | MAC address table | 3000 | | | | |
| 16 | Desktop network switch | Brand | | pcs | 1 | | |
| | | Manufacturer,Country | | | | | |
| | | Model | | | | | |
| | | Ports | 5 x 10/100Mbps RJ45 ports. | | | | |
| | | Fan | Fanless or fan | | | | |
| | | Warranty | 1 year | | | | |
| 17 | Desktop network switch | Brand | | pcs | 1 | | |
| | | Manufacturer,Country | | | | | |
| | | Model | | | | | |
| | | Ports | 8 x 10/100Mbps RJ45 ports. | | | | |
| | | Fan | Fanless or fan | | | | |
| | | Warranty | 1 year | | | | |
| 18 | CPU | Brand | | pcs | 1 | | |
| | | Manufacturer,Country | | | | | |
| | | Model | | | | | |
| | | Processor | Intel core i5 6th generation or equivalent or higher | | | | |
| | | RAM | 8GB | | | | |
| | | Storage | 512 GB SSD | | | | |
| | | Clock speed | 2GHz or higher | | | | |
| | | Integrated graphics | Yes | | | | |
| | | Warranty | 1 year | | | | |
| | | Brand | | | | | |

गणेश राज कार्की
प्रमुख प्राविधिक अधिकृत



| S.N | Particulars | Required Specifications | | unit | Qty | निर्धारित कोशी प्रदेश, नेपाल २०७७ |
|-----|--------------------|------------------------------------|---|------|-----|---|
| 19 | UPS | Manufacturer,Country | | pcs | 1 | |
| | | Model | | | | |
| | | UPS capacity | 1000 VA/600W | | | |
| | | Input Voltage Range | 140 VAC to 290 VAC; 85 VAC to 150 VAC | | | |
| | | Plug Type | UK TYPE G; Type B (NEMA 5-15); Schuko | | | |
| | | Output Voltage Range | 210 VAC to 235 VAC; 110 VAC to 125 VAC | | | |
| | | Transfer Time | <=10 ms | | | |
| | | Outlet number | 2 or more | | | |
| | | Battery Type | 12 V / 9 Ah, lead acid battery | | | |
| | | Protection | Surge, Overload, Discharge, Short Circuit Protection | | | |
| | | Indication | LED indicator | | | |
| | | Alarm | Low Battery, Overload, Fault | | | |
| | | Warranty | 1 year | | | |
| | | | | | | |
| 20 | Voltage Stabilizer | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Capacity | 5 KVA | | | |
| | | Minimum Input power | 90 V | | | |
| | | Maximum Input power | 280 V | | | |
| | | Output Power | 200V-240V | | | |
| | | Load | 3500 watts | | | |
| | | Digital display | Yes | | | |
| | | Safety features | Under volt protection, Over volt protection, Overload Protection | | | |
| | | Warranty | 1 year | | | |
| 21 | Hybrid Inverter | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | Type | Hybrid Inverter/Charger | | | |
| | | Power Output | Minimum 1500VA continuous output @25°C | | | |
| | | Working Temperature | 5 to +80 °C/35 to 85%RH (Without condensation) | | | |
| | | Protection Function | Battery reverse-connection protection, Short circuit, Over-load protection, Low Battery, high battery disconnects and self-reconnect and Over temperature shut down | | | |
| | | Input and Output Voltage | DC input must be 24 nominal and output voltage should be 230±2%, Frequency 50Hz Provision of 230V AC source input to enhance reliability through secondary charging source | | | |
| | | Surge Handling Capacity | ≥125% for at least 5 minutes | | | |
| | | Power factor | between 0.8 lagging to 0.8 leading | | | |
| | | Inverter Efficiency | ≥90% | | | |
| | | Indication | LCD display with fault alarm. Optional -Data logging | | | |
| | | Working Mode | Solar prioritize for charging when grid is connected | | | |
| | | Minimum PV array operating voltage | 100Vdc | | | |
| | | Charge controller Type | Maximum power point tracker (MPPT) | | | |
| | | PV Maximum Output Power | 1500W (In compliance with the Charging Current) | | | |
| | | Charger Regulation Method | Three- Stage (Bulk, absorption, float) plus manual equalization | | | |
| | | MPPT Efficiency | >97% | | | |

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गणेश राज कटवाल
प्रमुख प्रशासकीय अधिकारी



| S.N | Particulars | Required Specifications | | unit | Qty | Remarks |
|-----|-------------|------------------------------|--|------|-----|---------|
| | | MPPT Power Consumption | <3W at night | | | |
| | | Supported Battery Type | Flooded, GEL, AGM etc. | | | |
| | | Enclosure Protection Class | Minimum Ingress Protection rate of IP 21 | | | |
| | | Warranty | 2 years | | | |
| 22 | Battery | Brand | | pcs | 1 | |
| | | Manufacturer,Country | | | | |
| | | Model | | | | |
| | | The manufacturer shall have: | ISO 9001, ISO 14001, ISO 1800, ISO 45001 Certificates | | | |
| | | Battery Type: | Lead Acid Flooded Type solar deep cycle | | | |
| | | Individual Battery Capacity: | Minimum 150Ah @C10 | | | |
| | | Individual Battery voltage: | 12V | | | |
| | | Electrolyte | Sulphuric acid | | | |
| | | Average Self Discharge: | ≤3% per month at 25°C | | | |
| | | Certification | RETS Certification or Third Party assigned by Employer | | | |
| | | Warranty | 2 years | | | |

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[Circular official stamp]

नगरपालिका नगरपातिका
गाउँ, कोशी राई कार्यवाहक
२०७३

| Unit | Ory | Date |
|------|-----|------|
| | | |

| S.N | Category | Specification | Unit | Qty | Rate |
|---------------------|---|--|------|-----|------|
| 23 | Model | | pcs | 1 | |
| | Manufacturer, Country | | | | |
| | Model | | | | |
| | Product Type | 4 MP ANPR Smart Monitoring Camera | | | |
| | Image Sensor | 1/1.8" progressive scan CMOS | | | |
| | Minimum Illumination | Color: 0.0005 Lux @ (F1.2, AGC ON),0 Lux with light | | | |
| | Shutter Speed | 1/50 s to 1/40,000 s | | | |
| | Slow Shutter | Yes | | | |
| | Day & Night | 24/7 color imaging | | | |
| | Resolution | 2688 × 1520 | | | |
| | Lens — Focal Length | 2.8 - 12 mm | | | |
| | Field of View (FOV) | Horizontal: 113.5° to 39°, Vertical: 58.4° to 22.7°, Diagonal: 141.3° to 44.3° 8-32mm : Horizontal: 41.9° to 15.1°, Vertical: 22.9° to 8.64°, Diagonal: 48.8° to 17.3° 10-50mm: Horizontal: 32.2° to 7.8°, Vertical: 18.1° to 4.4°, Diagonal: 37.1° to 8.95° | | | |
| | Aperture | 2.8-12mm : F1.38, 8-32mm : F1.7, 10-50mm : F1.7 | | | |
| | Illuminator | Built in supplement light type:white light, light number:3, built in supplement light range: upto 50m | | | |
| | Presets | 200 presets | | | |
| | Compression | H.265/H.264 | | | |
| | Video Streams(main stream) | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) | | | |
| | Video Streams(sub stream) | 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) | | | |
| | Video Compression | H.264 and H.265 encoding Main stream: H.265/H.264/MJPEG Sub-stream: H.265/H.264/MJPEG | | | |
| | Interface | 1 × RJ45 10/100/1000 Mbps Ethernet | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | Network Features | local storage and CVR, NVR, ANR | | | |
| | API | ONVIF(S,G,T,M), ISAPI, SDK etc | | | |
| Image | Wide Dynamic Range: 140 dB; enhancement: BLC, 3D DNR; Day/Night Switch: Auto/Scheduled/Manual | | | | |
| Special features: | Road traffic and Vehicle Detection and LPR | | | | |
| Capture speed Range | 5 to 120 km/hr | | | | |
| Power Supply | DC 12 V to 24 V, 1.25 A, max. 15 W, two-core terminal block, PoE: 802.3at, Type 2, Class 4, max. 15 W | | | | |

गणेश सासकाय अधिकृत
 नगरपालिकाको कार्यालय
 काभ्रे प्रदेश, नेपाल
 २०७३

| S.N | Category | Specification | Unit | Qty | Rate |
|---|--------------------------------------|---|------|-----|------|
| | Material | Aluminum alloy | | | |
| | Protection | IK10: IEC 62262:2002,IP67: IEC 60529-2013 | | | |
| | Warranty | 2 years | | | |
| Technical Specification 4MP ANPR IR Varifocal Bullet Network Camera | | | | | |
| 24 | Manufacturer, Country | | pcs | 1 | |
| | Brand | | | | |
| | Model | | | | |
| | Product Type | 4MP ANPR IR Varifocal Bullet Camera | | | |
| | Image Sensor | 1/3" Progressive Scan CMOS | | | |
| | Minimum Illumination | Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR | | | |
| | Shutter Speed | 1/3 s to 1/100,000 s | | | |
| | Angle Adjustment | Pan: 0° to 335°, tilt: 0° to 90°, rotate: 0° to 360° | | | |
| | Day & Night | IR cut filter | | | |
| | Resolution | 2688 × 1520 | | | |
| | Lens | Varifocal lens, Motorized lens, 2.7 to 13.5 mm | | | |
| | Focal length and Field of View (FOV) | 2.7 to 13.5 mm, horizontal FOV 107.6° to 32.9°, vertical FOV 56° to 18.5°, diagonal FOV 130.9° to 37.8° | | | |
| | Aperture | F1.6 | | | |
| | Illuminator | IR | | | |
| | Supplement Light Range | Up to 40 m | | | |
| | Smart Light | Yes | | | |
| | Compression | H.265/H.264/H.264+/H.265+ | | | |
| | Video Streams | Main stream: 50HZ @ 25fps(2688×1520, 1920×1080, 1280×720), 60 Hz @30fps(2688×1520, 1920×1080,1280×720) | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | Network Features | FTP/NAS/memory card upload, motion detection (human & vehicle) | | | |
| | API | ONVIF(S,G,T), ISAPI,SDK etc | | | |
| | Deep learning function | Road traffic and vehicle detection(Support license plate recognition) | | | |
| | Image | WDR 120dB, SNR >=52dB | | | |
| | Power Supply | 12 VDC ±25%, 1.08 A / PoE (IEEE 802.3at, Class 4, max. 15 W) | | | |
| | Protection | IP67: IEC 60529-2013, IK10: IEC 62262:2002 | | | |
| | Event & Alarm | Motion detection, upload to FTP/NAS/memory card, notify surveillance center, email trigger, audible warning | | | |
| | Warranty | 2 years | | | |
| Fixed Lens (4MP) + PT Network Camera(4MP) | | | | | |
| | Manufacturer, Country | | | | |
| | Brand | | | | |
| | Model | | | | |
| | Product Type | 4MP Fixed Lens + 4MP PT Network Camera | | | |
| | Image Sensor | Bullet channel: 1/2.8" Progressive Scan CMOS PT channel: 1/2.8" Progressive Scan CMOS | | | |
| | Minimum Illumination | Bullet & PT channels: Color: 0.005 Lux @ (F2.0, AGC ON), B/W: 0.005 Lux @ (F2.0, AGC ON), 0 Lux with IR | | | |
| | Shutter Speed | 1 s to 1/30,000 s | | | |

| S.N | Category | Specification | Unit | Qty | Rate |
|-----|------------------------|--|------|-----|------|
| 25 | Slow Shutter | Yes | pcs | 1 | |
| | Day & Night | ICR | | | |
| | Resolution | 2560 × 1440 (Bullet & PTZ channels) | | | |
| | Lens — Focal Length | Bullet: 2.8 mm PT: 8 mm | | | |
| | Field of View (FOV) | Bullet channel: H: 94°, V: 49°, D: 114° PTZ channel: H: 44°, V: 24°, D: 51° | | | |
| | Aperture | F1.6 (Bullet & PT) | | | |
| | Illuminator | Hybrid (IR + White Light) for Bullet & PT | | | |
| | Supplement Light Range | Up to 30 m (Bullet & PT) | | | |
| | Smart Light | Yes | | | |
| | PT Movement – Pan | Panoramic: 0° to 355° PTZ: 0° to 345° | | | |
| | PT Movement – Tilt | Panoramic: 7° to 17° (manual adjust) PTZ: 0° to 80° | | | |
| | Pan Speed | 4° – 25°/s (configurable), Preset: 25°/s | | | |
| | Tilt Speed | 4° – 20°/s (configurable), Preset: 20°/s | | | |
| | Presets | 200 presets | | | |
| | Compression | H.265/H.264 | | | |
| | Video Streams | Main stream: up to 2560 × 1440 @ 25/30 fps (Bullet & PTZ) | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | Built-In Audio | 1 microphone, 1 speaker | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | Network Features | FTP/NAS upload, motion detection (human & vehicle) | | | |
| | API | ONVIF(S,G,T), ISAPI etc | | | |
| | Image | Digital WDR, BLC, HLC, DNR etc | | | |
| | Power Supply | 12 VDC ±25%, 1.5 A / PoE (IEEE 802.3at, Class 4, max. 21.5 W) | | | |
| | Operating Conditions | -30 °C to 50 °C (-22 °F to 122 °F), humidity ≤ 95% non-condensing | | | |
| | Material | Poly Carbonate | | | |
| | Protection | IP66 (weather & dust resistant), surge & voltage transient protection | | | |
| | Event & Alarm | Motion detection, upload to FTP/NAS/memory card, notify center, email trigger, audible warning | | | |
| | Certifications | Standard: IP66, surge protection | | | |
| | Warranty | 2 years | | | |

4MP ColorVu Fixed Bullet Network Camera

| | | | | |
|-----------------------|--|--|--|--|
| Manufacturer, Country | Must be specified by the bidder | | | |
| Brand | Must be specified by the bidder | | | |
| Model | Must be specified by the bidder | | | |
| Product Type | 4 MP Fixed Bullet Network Camera | | | |
| Image Sensor | 1/1.8" Progressive Scan CMOS | | | |
| Minimum Illumination | Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light | | | |
| Shutter Speed | 1/3 s to 1/100,000 s | | | |
| Angle Adjustment | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360° | | | |
| Day & Night | IR cut filter | | | |
| Resolution | 2688 × 1520 | | | |
| Lens | Fixed focal lens, 2.8, 4 and 6 mm optional | | | |

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प्रशासकीय अधिकृत



| S.N | Category | Specification | Unit | Qty | Rate |
|-----|---|---|------|-----|------|
| 26 | Focal length and Field of View (FOV) | 2.8 mm, horizontal FOV 112°, vertical FOV 61°, diagonal FOV 134° 4 mm, horizontal FOV 95°, vertical FOV 51°, diagonal FOV 115° 6 mm, horizontal FOV 58°, vertical FOV 31°, diagonal FOV 69° | pcs | 1 | |
| | Aperture | F1.0 | | | |
| | Illuminator | White light | | | |
| | Supplement Light Range | 60 m | | | |
| | Smart Light | Yes | | | |
| | Compression | H.265/H.264 | | | |
| | Video Streams | 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | Built-In Audio | Yes | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | API | ONVIF(S,G,T), ISAPI,SDK etc | | | |
| | Image | WDR 130dB, SNR >=52dB | | | |
| | Power Supply | 12 VDC ±25%, 0.7 A / PoE (IEEE 802.3af, max. 10.5 W) | | | |
| | Protection | IP67: IEC 60529-2013 | | | |
| | Event & Alarm | Motion detection, upload to FTP/NAS/memory card, notify surveillance center, email trigger, audible warning | | | |
| | Warranty | 1 year | | | |

8MP Motorized Bullet Camera

| Category | Specification | Unit | Qty | Rate |
|------------------------------|--|------|-----|------|
| Manufacturer, Country | Must be specified by the bidder | pcs | 1 | |
| Brand | Must be specified by the bidder | | | |
| Model | Must be specified by the bidder | | | |
| Product Type | 8 MP Motorized Bullet Camera | | | |
| Image Sensor | 1/2.8" Progressive Scan CMOS | | | |
| Minimum Illumination | Color:0.002Lux@(F1.6,AGC ON),B/W:0Lux with IR | | | |
| Shutter Speed | 1 s to 1/100,000 s | | | |
| Angle Adjustment | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360° | | | |
| Day & Night | IR cut filter | | | |
| Lens | Motorized | | | |
| Focal length | 2.7 - 13.5 mm | | | |
| Aperture | F1.6 | | | |
| Illuminator | IR ; IR distance 80 m | | | |
| Smart Light | Yes | | | |
| Compression | H.265/H.264 | | | |
| Max Resolution | 3840×2160 @30fps | | | |
| Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| Built-In Audio | yes | | | |
| On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| API | ONVIF(S,G,T) etc | | | |
| Power Supply | 12 VDC ±25%, PoE (IEEE 802.3at, max. 9.5 W) | | | |
| Protection | IP67 | | | |
| Event & Alarm | Motion detection, notify surveillance center, email trigger, audible warning | | | |
| Warranty | 1 year | | | |

Technical Specification of 8 MP IP Network Straight Full Color IP Camera

| | | | | |
|--------------|--|--|--|--|
| Brand | | | | |
|--------------|--|--|--|--|

3/2
गोपनीय फाइल
प्रमुख प्रशासकीय अधिकृत
सुदूरपश्चिम प्रदेश, नेपाल
२०७३

| S.N | Category | Specification | Unit | Qty | Rate |
|-----|--------------------------------------|--|------|-----|------|
| 28 | Model | | pcs | 1 | |
| | Manufacturer, Country | | | | |
| | Product Type | 8 MP IP Network Straight Full Color IP Camera | | | |
| | Image Sensor: | 1/2.7" CMOS Sensor | | | |
| | Min. Illumination: | Color: 0.05lux @(F1.0, AGC ON), 0 lux with IR | | | |
| | Shutter Time: | 1/25 s to 1/10,000 s | | | |
| | Lens: | 3.6mm Fixed Lens | | | |
| | Day&Night: | IR cut filter with auto switch | | | |
| | Image Enhancement: | BLC/3D DNR/D-WDR | | | |
| | Motion Detection | Support | | | |
| | Privacy Protection | Support(4 Self-customized Areas) | | | |
| | Smart function: | Humanoid detection, Vehicle detection | | | |
| | Weather-Proof: | IP66 | | | |
| | Illumination for Infrared Switching: | 1~5Lux | | | |
| | Infrared Wavelength: | 850nm | | | |
| | Mimimum Illumination: | 0 Lux(IR ON) | | | |
| | IR Range: | 8PCS LEDS//White Light :20m | | | |
| | Video Compression: | H.265/H.264 | | | |
| | Video Bit Rate: | 512Kbps~12288Kbps(main stream H.265) | | | |
| | | 64kbps~1024Kbps(sub stream H.265) | | | |
| | Audio Compression: | G711U/G711A/AAC | | | |
| | Dual Streams: | Yes | | | |
| | Triple Streams: | No | | | |
| | Max. Image Resolution: | 3840*2160(8MP)/3072*2048(6MP)/2592*1944(5MP)/2560*1440(4MP)/1920*1080(2MP) | | | |
| | Frame Rate: | 20fps(8MP).MAX main stream | | | |
| | | 30fps (D1) .MAX sub stream | | | |
| | Image Settings: | 3D NR, D-WDR, Image Flip, Saturation, Brightness, Contrast, Sharpness | | | |
| | | adjustable via client software, web browser or Smartphone App | | | |
| | Day/Night Switch: | EXT/Day/Night/Auto/Time | | | |
| | Line IN/line OUT | Support (1ch) | | | |
| | Built-in Mic | Yes | | | |
| | Built-in Speaker | Optional | | | |
| | Network Protocols: | HTTP, TCP/IP, IPv4/v6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, | | | |
| | | DDNS,IP Search(Support P2P, NVR, NVS etc.) | | | |
| | System Compatibility: | Open Network Video Interface ForumONVIF(17.2 with profile S) | | | |
| | On-line Viewing | Max. Support 2 Users Simultaneously | | | |
| | Communication Interface: | 1 RJ45 10M / 100M Ethernet Interface | | | |
| | SD card interface | Support TF card (micro TF card, up to 256G) | | | |
| | DC Power Plug: | DC Power Femate Interface | | | |
| | Power Supply: | 12 V DC \pm 10%/PoE | | | |
| | Power Consumption: | 12 VDC \pm 10%, Max Power Comsumption Less than 8W (When the infrared lamps turn on) | | | |
| | Warranty | 1 year | | | |

गौरीगंगा काठमाडौं
प्रमुख शासकीय अधिकृत
शेखर
नगरपालिका
गौरीगंगा, कोशी प्रदेश, नेपाल
२०७३

| S.N | Category | Specification | Unit | Qty | Rate |
|-----------------|---|---|------|-----|------|
| 4MP Dome Camera | | | | | |
| 29 | <div> <div>Manufacturer, Country</div> <div>Brand</div> <div>Model</div> <div>Product Type</div> <div>Image Sensor</div> <div>Minimum Illumination</div> <div>Shutter Speed</div> <div>Angle Adjustment</div> <div>Day & Night</div> <div>Resolution</div> <div>Lens</div> <div>Focal length and Field of View (FOV)</div> <div>Aperture</div> <div>Illuminator</div> <div>Supplement Light Range</div> <div>Smart Light</div> <div>Compression</div> <div>Video Streams</div> <div>Interface</div> <div>On-Board Storage</div> <div>API</div> <div>Image</div> <div>Power Supply</div> <div>Protection</div> <div>Event & Alarm</div> <div>Warranty</div> </div> | <div> <div>4 MP Dome Network Camera</div> <div>1/2.9" Progressive Scan CMOS</div> <div>Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with light</div> <div>1/3 s to 1/100,000 s</div> <div>Pan: 0° to 335°, tilt: 0° to 70°, rotate: 0° to 355°</div> <div>IR cut filter</div> <div>2688 × 1520</div> <div>Fixed focal lens, 2.8 and 4 mm optional</div> <div>2.8 mm, horizontal FOV 104°, vertical FOV 57°, diagonal FOV 122° 4 mm, horizontal FOV 84°, vertical FOV 45°, diagonal FOV 100°</div> <div>F1.6</div> <div>IR, White light</div> <div>Up to 40 m</div> <div>Yes</div> <div>H.265/H.264</div> <div>Main stream: 50HZ @ 25fps(2688×1520, 1920×1080, 1280×720), 60 Hz @30fps(2688×1520, 1920×1080,1280×720)</div> <div>1 × RJ45 10/100 Mbps Ethernet</div> <div>microSD / microSDHC / microSDXC up to 512 GB capacity</div> <div>ONVIF(S,G,T), ISAPI,SDK etc</div> <div>WDR 120dB, SNR >=52dB</div> <div>12 VDC ±25%, 0.6 A / PoE (IEEE 802.3at, Class 3, max. 8.5 W)</div> <div>IP67: IEC 60529-2013, IK10: IEC 62262:2002</div> <div>Motion detection, upload to FTP/NAS/memory card, notify surveillance center, email trigger, audible warning</div> <div>1 year</div> </div> | pcs | 1 | |
| 2MP Dome Camera | | | | | |
| 30 | <div> <div>Manufacturer, Country</div> <div>Brand</div> <div>Model</div> <div>Product Type</div> <div>Image Sensor</div> <div>Minimum Illumination</div> <div>Shutter Speed</div> <div>Angle Adjustment</div> <div>Day & Night</div> <div>Resolution</div> <div>Lens</div> <div>Focal length and Field of View (FOV)</div> <div>Aperture</div> <div>Illuminator</div> </div> | <div> <div>2 MP Dome Network Camera</div> <div>1/2.7" Progressive Scan CMOS</div> <div>Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR</div> <div>1/3 s to 1/100,000 s</div> <div>Pan: 0° to 335°, tilt: 0° to 70°</div> <div>IR cut filter</div> <div>1920×1080</div> <div>Fixed focal lens, 2.8 and 4 mm optional</div> <div>2.8 mm, horizontal FOV 112.1°, vertical FOV 60.0°, diagonal FOV 132.2° 4 mm, horizontal FOV 90.2°, vertical FOV 48.6°, diagonal FOV 107.6°</div> <div>F2.0</div> <div>IR</div> </div> | pcs | 1 | |

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गोरेपानी काठमाडौं
प्रमुख प्रशासकीय अधिकृत



| S.N | Category | Specification | Unit | Qty | Rate |
|-----|------------------------|--|------|-----|------|
| | Supplement Light Range | Up to 30 m | | | |
| | Compression | H.265/H.264 | | | |
| | Video Streams | Main stream: 50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720) | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | API | ISAPI | | | |
| | Image | Digital WDR | | | |
| | Power Supply | 12 VDC ±25%, 0.4 A / PoE (IEEE 802.3af, Class 3, max. 6.5 W) | | | |
| | Protection | IP67: IEC 60529-2013, IK10: IEC 62262:2002 | | | |
| | Event & Alarm | Motion detection, upload to FTP, notify surveillance center, send | | | |
| | Warranty | 1 year | | | |

2MP Acusense Dome Camera

| | | | | | |
|----|--------------------------------------|--|-----|---|--|
| 31 | Manufacturer, Country | Must be specified by the bidder | pcs | 1 | |
| | Brand | Must be specified by the bidder | | | |
| | Model | Must be specified by the bidder | | | |
| | Product Type | 2 MP Acusense Built in Mic Dome Network Camera | | | |
| | Image Sensor | 1/2.8" Progressive Scan CMOS | | | |
| | Minimum Illumination | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR | | | |
| | Shutter Speed | 1/3 s to 1/100,000 s | | | |
| | Angle Adjustment | Pan: 0° to 335°, tilt: 0° to 70°, rotate: 0° to 355° | | | |
| | Day & Night | IR cut filter | | | |
| | Resolution | 1920×1080 | | | |
| | Lens | Fixed focal lens, 2.8 and 4 mm optional | | | |
| | Focal length and Field of View (FOV) | 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 127° 4 mm, horizontal FOV 87°, vertical FOV 46°, diagonal FOV 104° | | | |
| | Aperture | F1.6 | | | |
| | Illuminator | IR | | | |
| | Supplement Light Range | Up to 30 m | | | |
| | Compression | H.265/H.264 | | | |
| | Video Streams | Main stream: 50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720) | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | Built-In Audio | 1 microphone, 1 speaker(optional) | | | |
| | On-Board Storage | microSD up to 512 GB capacity | | | |
| | API | Open Network Video Interface (Profile S, Profile G), ISAPI, SDK, ISUP | | | |
| | Image | BLC, HLC, 3D DNR | | | |
| | Power Supply | 12 VDC ±25%, 0.4 A / PoE (IEEE 802.3af, Class 3, max. 7.5 W) | | | |
| | Protection | IP67: IEC 60529-2013, IK10: IEC 62262:2002 | | | |
| | Event & Alarm | Motion detection, upload to FTP/NAS/memory card, notify surveillance center, send | | | |
| | Warranty | 1 year | | | |

2MP Smart Hybrid Light Fixed Bullet Network Camera

| | | | | | |
|--|-----------------------|---------------------------------|--|--|--|
| | Manufacturer, Country | Must be specified by the bidder | | | |
| | Brand | Must be specified by the bidder | | | |

| S.N | Category | Specification | Unit | Qty | Rate |
|-------------------|---|--|------|-----|------|
| 32 | Model | Must be specified by the bidder | pcs | 1 | |
| | Product Type | 2 MP Dome Network Camera | | | |
| | Image Sensor | 1/2.9" Progressive Scan CMOS | | | |
| | Minimum Illumination | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR | | | |
| | Shutter Speed | 1/3 s to 1/100,000 s | | | |
| | Angle Adjustment | Pan: 0° to 335°, tilt: 0° to 70°, rotate: 0° to 360° | | | |
| | Day & Night | IR cut filter | | | |
| | Resolution | 1920×1080 | | | |
| | Lens | Fixed focal lens, 2.8 and 4 mm optional | | | |
| | Focal length and Field of View (FOV) | 2.8 mm, horizontal FOV 103°, vertical FOV 56°, diagonal FOV 121° 4 mm, horizontal FOV 83°, vertical FOV 44°, diagonal FOV 99° | | | |
| | Aperture | F1.6 | | | |
| | Illuminator | IR, white light | | | |
| | Supplement Light Range | Up to 30 m | | | |
| | Compression | H.265/H.264 | | | |
| | Video Streams | Main stream: 50 Hz: 25 fps (1920 × 1080, 1280 × 720) 60 Hz: 30 fps (1920 × 1080, 1280 × 720) | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | Audio | Built in microphone | | | |
| | API | ISAPI, SDK etc | | | |
| | Image | Digital WDR | | | |
| | Power Supply | 12 VDC ±25%, 0.4 A / PoE (IEEE 802.3af, Class 3, max. 6.5 W) | | | |
| | Protection | IP67: IEC 60529-2013 | | | |
| Event & Alarm | Motion detection, upload to FTP, notify surveillance center, send | | | | |
| Warranty | 1 year | | | | |
| 5MP Bullet Camera | | | | | |
| 33 | Manufacturer, Country | Must be specified by the bidder | pcs | 1 | |
| | Brand | Must be specified by the bidder | | | |
| | Model | Must be specified by the bidder | | | |
| | Product Type | 5 MP Bullet Camera | | | |
| | Image Sensor | 1/2.7" CMOS | | | |
| | Minimum Illumination | Color:0.002Lux@(F1.6,AGC ON),B/W:0Lux with IR | | | |
| | Shutter Speed | 1s to 1/100,000 s | | | |
| | Angle Adjustment | 0~360°(P); 0~90°(T); 0~360°R | | | |
| | Day & Night | IR-cut filter with auto switch (ICR) | | | |
| | Resolution | Max. 2880×1620@30fps | | | |
| | Lens | Fixed focal lens, 4 mm | | | |
| | Field of View (FOV) | 91°(H); 46.4°(V); 107°(D) | | | |
| | Aperture | F1.6 | | | |
| | Illuminator | IR, white light | | | |
| | LEDs | IR-2, White LEDs-2 | | | |
| | Distance | Whitelight-15m, IR Distance-30m | | | |
| | Video Compression | S+265/H.265/H.264B/H.264M/H.264H/Motion JPEG | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |

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| S.N | Category | Specification | Unit | Qty | Rate |
|-----|----------------------------|---|------|-----|------|
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | Audio | Built in microphone and speaker | | | |
| | API | ONVIF Profile S/T/G/M; CGI; Milestone; RTMP | | | |
| | White Balance | Auto/Semi-Auto/Manual/Sunshine/Nature Light/Warmlight Lamp/Daylight Lamp/Filament Lamp/Lock White Balance | | | |
| | Power Supply | 12 VDC \pm 25%, MAX 6.5 W | | | |
| | Protection | IP67 | | | |
| | Additional Features | Supports smart surveillance, face capture, human/vehicle classification | | | |
| | Warranty | 1 Year | | | |

5MP Turret Camera

| | | | | | |
|----|------------------------------|---|-----|---|--|
| 34 | Manufacturer, Country | Must be specified by the bidder | pcs | 1 | |
| | Brand | Must be specified by the bidder | | | |
| | Model | Must be specified by the bidder | | | |
| | Product Type | 5 MP Turret Camera | | | |
| | Image Sensor | 1/2.7" CMOS | | | |
| | Minimum Illumination | Color:0.002Lux@(F1.6,AGC ON),B/W:0Lux with IR | | | |
| | Shutter Speed | 1s to 1/100,000 s | | | |
| | Angle Adjustment | 0~340°(P); 0~75°(T); 0~360°(R) | | | |
| | Day & Night | IR-cut filter with auto switch (ICR) | | | |
| | Resolution | Max. 2880×1620@30fps | | | |
| | Lens | Fixed focal lens, 2.8 mm | | | |
| | Field of View (FOV) | 109°(H); 59°(V); 125.4°(D) | | | |
| | Aperture | F1.6 | | | |
| | Illuminator | IR, white light | | | |
| | LEDs | IR-2, White LEDs-2 | | | |
| | Distance | Whitelight-15m, IR Distance-30m | | | |
| | Video Compression | S+265/H.265/H.264B/H.264M/H.264H/Motion JPEG | | | |
| | Interface | 1 × RJ45 10/100 Mbps Ethernet | | | |
| | On-Board Storage | microSD / microSDHC / microSDXC up to 512 GB capacity | | | |
| | Audio | Built in microphone and speaker | | | |
| | API | ONVIF Profile S/T/G/M; CGI; Milestone; RTMP | | | |
| | Power Supply | 12 VDC \pm 25%, MAX 6.5 W; POE 802.3af,MAX 8W | | | |
| | Protection | IP67 | | | |
| | Additional Features | Supports smart surveillance, face capture, human/vehicle classification | | | |
| | Warranty | 1 Year | | | |

64-ch NVR

| | | | | | |
|--|-----------------------------|------------------------------------|--|--|--|
| | Manufacture, country | | | | |
| | Brand | | | | |
| | Model No | | | | |
| | Product Type | 64 ch Network Video Recorder (NVR) | | | |
| | Channels | 64-Channel | | | |
| | Incoming Bandwidth | 400 Mbps | | | |
| | Outgoing Bandwidth | 400 Mbps | | | |
| | Recording Resolution | Up to 4K | | | |

2/2
 गणेशराज ठाकुर
 प्रमुख प्रशासकीय अधिकृत
 नगरपालिका
 काशी प्रदेश, नेपाल
 २०७३

| S.N | Category | Specification | Unit | Qty | Rate |
|-----|------------------------|--|------|-----|------|
| 35 | Decoding Format | H.265+/H.265/H.264+/H.264 | pcs | 1 | |
| | Synchronous Playback | 16 ch | | | |
| | Decoding Capacity | 2-ch@32 MP (30 fps)+2-ch@8MP (30fps) /10- ch@8 MP (30 fps)/20-ch@4 MP (30 fps)/40- ch@1080p (30 fps) | | | |
| | Audio Compression | G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2 | | | |
| | Camera Access Protocol | ONVIF(Version 2.5), RTSP | | | |
| | HDMI Output | 2 × HDMI (4K supported) | | | |
| | VGA Output | 1 × VGA | | | |
| | Network Interface | 2 × RJ-45 10/100/1000 Mbps | | | |
| | Storage | 4 × SATA Interfaces, upto 16TB for each | | | |
| | USB Interface | Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0 | | | |
| | Power Supply | 100–240 VAC | | | |
| | Operating Temperature | -10°C to 55°C | | | |
| | Certification | FCC, CE | | | |
| | Warranty | 2 years | | | |

Technical Specification for 32 ch NVR

| | | | | | |
|----|-----------------------------|--|-----|---|--|
| 36 | Manufacturer, Country | | pcs | 1 | |
| | Brand | | | | |
| | Model | | | | |
| | Device Type | Network Video Recorder (NVR) | | | |
| | IP Camera Input Channels | Up to 32 channels or more | | | |
| | Supported Camera Resolution | Up to 12 MP | | | |
| | Video Compression | H.265+, H.265, H.264+, H.264 | | | |
| | Incoming Bandwidth | 256 Mbps | | | |
| | Outgoing Bandwidth | 160 Mbps | | | |
| | Decoding Capacity | 2-ch@12MP, 3-ch@8MP, 6-ch@4MP | | | |
| | Playback | 16-channel synchronous | | | |
| | Video Output | HDMI (4K) + VGA | | | |
| | Storage (HDD) | 2 × SATA (up to 10TB each) | | | |
| | AI Features | Face recognition, Motion Detection 2.0, Perimeter protection | | | |
| | Protocols | ONVIF, SDK, ISAPI | | | |
| | Network Port | 1 × RJ-45 10/100/1000 Mbps | | | |
| | Power | 12V DC, 3.33A | | | |
| | Warranty | 2 years service and parts | | | |

8 ch NVR

| | | | | | |
|--|--------------------------|------------------------------|--|--|--|
| | Manufacturer, Country | | | | |
| | Brand | | | | |
| | Model No | | | | |
| | Device Type | Network Video Recorder (NVR) | | | |
| | IP Camera Input Channels | Up to 8 channels or more | | | |

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| S.N | Category | Specification | Unit | Qty | Rate |
|------------------|--------------------------------|--|------|-----|------|
| 37 | Supported Recording Resolution | Up to 8 MP | pcs | 1 | |
| | Video Compression | H.265+, H.265, H.264+, H.264 | | | |
| | Incoming Bandwidth | 80 Mbps | | | |
| | Outgoing Bandwidth | 80 Mbps | | | |
| | Decoding Capacity | 1-ch@8MP, 3-ch@4MP, 6-ch@1080p | | | |
| | Playback | 8-channel synchronous | | | |
| | Video Output | HDMI (4K) + VGA | | | |
| | Storage (HDD) | 1 × SATA up to 8TB | | | |
| | Protocols | ONVIF, SDK, ISAPI | | | |
| | Network Interface | 1, RJ-45 10/100 Mbps self-adaptive Ethernet interface | | | |
| | Power | 12V DC, 1.5A | | | |
| | Warranty | 2 years service and parts | | | |
| 32 ch NVR 2 SATA | | | | | |
| 38 | Manufacturer, Country | | pcs | 1 | |
| | Brand | | | | |
| | Model No | | | | |
| | Device Type | Network Video Recorder (NVR) | | | |
| | IP Camera Input Channels | Up to 32 channels or more | | | |
| | Supported Recording Resolution | Up to 8 MP | | | |
| | Video Compression | S+265; H.265; S+264; H.264 | | | |
| | Incoming Bandwidth | 160 Mbps | | | |
| | Outgoing Bandwidth | 48 Mbps | | | |
| | Playback function | Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full screen/backup (video Editing)/Step/Digital Zoom | | | |
| | Two-Way Audio | 1-ch, 3.5mm, using the audio input | | | |
| | Video Output | HDMI (4K) + VGA | | | |
| | Synchronous playback | 16-channel synchronous | | | |
| | Multi-channel Playback | 16 | | | |
| | Storage (HDD) | 2× SATA up to 10TB for each HDD | | | |
| | Network Interface | 1×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port | | | |
| | AI by Camera | Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Lens Diagnose; Scene Switch Diagnose; Signal Abnormal Detection; Signal Loss Detection; On Duty Detection; Crowd Detection; Safety Helmet Detection; People Counting; Link To Tracking; Face Detection; Human body temperature measurement; Advanced Intelligence | | | |
| | Mobile Acces | Yes(android and iOS) | | | |
| | Power | DC12V 3.3A and consumption <= 10 W | | | |
| Warranty | 2 years service and parts | | | | |
| 32 ch 4 SATA NVR | | | | | |

| S.N | Category | Specification | Unit | Qty | Rate |
|-----------|--------------------------------|---|------|-----|------|
| 39 | Manufacturer, Country | | pcs | 1 | |
| | Brand | | | | |
| | Model No | | | | |
| | Device Type | 32 Channel 4SATA NVR | | | |
| | IP Camera Input Channels | Up to 32 channels or more | | | |
| | System Memory | 3G | | | |
| | EMMC | 8G | | | |
| | AI by Device | Facial recognition, perimeter protection, motion detection 2.0 | | | |
| | AI by Camera | Facial recognition, perimeter protection, throwing objects from building, motion detection2.0, ANPR, VCA | | | |
| | Supported Recording Resolution | Up to 12 MP | | | |
| | Video Compression | H.265/H.265+/H.264+/H.264 | | | |
| | Incoming Bandwidth | 256 Mbps | | | |
| | Outgoing Bandwidth | 160 Mbps | | | |
| | Decoding Capacity | AI on: 2-ch@12 MP (30 fps)/3-ch@8 MP (30 fps)/6-ch@4 MP (30 fps)/12-ch@1080p (30 fps) AI off: 2-ch@12 MP (30 fps)/4-ch@8 MP (30 fps)/8-ch@4 MP (30 fps)/16-ch@1080p (30 fps) | | | |
| | Synchronous playback | 16-channel synchronous | | | |
| | API | ONVIF (profile S/G); SDK; ISAPI | | | |
| | Video Output | HDMI (4K) + VGA(HD) | | | |
| | SATA | 4 SATA interfaces | | | |
| | Capacity | Up to 16 TB capacity for each HDD | | | |
| | Serial Interface | 2 RS-485 (half-duplex), 1 RS-232 | | | |
| | USB Interface | Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0 | | | |
| | Network Interface | 2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces | | | |
| | Power | <20W without HDD | | | |
| | Warranty | 2 years service and parts | | | |
| 10 TB HDD | | | | | |
| 40 | Manufacture, Country | Must be specified by the bidder | pcs | 1 | |
| | Brand Name | Must be specified by the bidder | | | |
| | Model No. | Must be specified by the bidder | | | |
| | Tor Size | 512E | | | |
| | Form Factor | 3.5-Inch, Surveillance grade | | | |
| | Interface | SATA 6 Gbit/s | | | |
| | Formatted Capacity | 10TB / 10,000GB | | | |
| | Performance | Interface Speed 6.0 Gbit/s Rotation Speed 7,200 RPM Buffer Size | | | |
| | Warranty | 1 year | | | |
| 8 TB HDD | | | | | |
| | Manufacture, Country | | | | |
| | Brand Name | | | | |
| | Model No. | | | | |
| | Capacities | 8 TB | | | |
| | Interface | SATA 6Gb/s | | | |

गणेश राज काफ्ले
प्रमुख प्रशासकीय अधिकृत



| S.N | Category | Specification | Unit | Qty | Rate |
|-----------------|---------------------------------------|--|------|-----|--|
| 41 | FEATURES AND PERFORMANCE | | pcs | 1 | गोर्खा नगरपालिका कोशी प्रदेश, नेपाल २०७३ |
| | Max Sustained Transfer Rate OD (MB/s) | > 200MB/s | | | |
| | Hard Disk Rotational Speed | More than or equal 5400 RPM | | | |
| | Cache | 128 MB or higher | | | |
| | Load/Unload Cycles | 300,000 | | | |
| | Warranty | Min 1 Year | | | |
| 4TB HDD | | | | | |
| 42 | Manufacture, Country | | pcs | 1 | |
| | Brand Name | | | | |
| | Model No. | | | | |
| | Capacities | 4 TB | | | |
| | Interface | SATA 6Gb/s | | | |
| | FEATURES AND PERFORMANCE | | | | |
| | Max Sustained Transfer Rate OD (MB/s) | > 180MB/s | | | |
| | Hard Disk Rotational Speed | More than or equal 5400 RPM | | | |
| | Cache | 64 MB or higher | | | |
| | Load/Unload Cycles | 300,000 | | | |
| Warranty | Min 1 Year | | | | |
| 2TB HDD | | | | | |
| 43 | Manufacture, Country | | pcs | 1 | |
| | Brand Name | | | | |
| | Model No. | | | | |
| | Capacities | 2TB | | | |
| | Interface | SATA 6Gb/s | | | |
| | FEATURES AND PERFORMANCE | | | | |
| | Max Sustained Transfer Rate OD (MB/s) | 180MB/s | | | |
| | Hard Disk Rotational Speed | More than or equal 5400 RPM | | | |
| | Cache | 64 MB or higher | | | |
| | Load/Unload Cycles | 300,000 | | | |
| Warranty | Min 1 Year | | | | |
| FHD Monitor 24" | | | | | |
| | Manufacture, Country | | | | |
| | Brand Name | | | | |
| | Model No. | | | | |
| | Screen Size | 23.5 inch | | | |
| | Active Display Area | 478.656 (H) mm × 260.28 (V) mm with IR | | | |
| | Resolution | 1920 × 1080 | | | |
| | Backlight | W-LED | | | |
| | Pixel Pitch | 0.0831 (H) mm × 0.241 (V) mm | | | |
| | Brightness | 250 cd/m² | | | |
| | Viewing Angle | 178°(W) | | | |

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महोदय प्रशासकीय अधिकृत



| S.N | Category | Specification | Unit | Qty | Rate |
|---------|-----------------------|--|------|-----|--|
| 44 | Color Depth | 8 bit | pcs | 1 | नगरपालिका काको कार्यालय कोशी प्रदेश, नेपाल २०७३ |
| | Contrast Ratio | 3000:1 | | | |
| | Response Time | 6.5 ms | | | |
| | Refresh Rate | 60 Hz | | | |
| | Haze | 25% | | | |
| | Color Gamut | 72% NTSC | | | |
| | Video & Audio Input | HDMI 1.4 × 1, VGA × 1 | | | |
| | Power Supply | 100 to 240 VAC, 50/60 Hz | | | |
| | Power Consumption | ≤ 30 W | | | |
| | Standby Consumption | ≤ 0.5 W | | | |
| | Warranty | 2 years service and parts | | | |
| 43" UHD | | | | | |
| 45 | Manufacturer, Country | | pcs | 1 | |
| | Brand | | | | |
| | Model No | | | | |
| | Screen Size | 42.5" | | | |
| | Active Display Area | 941.184 mm × 529.416 mm approx | | | |
| | Resolution | 3840×2160(4K UHD) | | | |
| | Backlight Type | D-LED | | | |
| | Pixel Pitch | 0.2451 mm × 0.2451 mm | | | |
| | Brightness | 400 cd/m² | | | |
| | Viewing Angle | 178° (H) / 178° (V) | | | |
| | Color Depth | 1.07 Billion | | | |
| | Contrast Ratio | 4000:1 | | | |
| | Response Time | 8 ms | | | |
| | HDMI Ports | 2 | | | |
| | VGA Ports | 1 | | | |
| | Audio-in | 1 | | | |
| | Audio-out | 1 | | | |
| | USB Ports | USB 2.0 × 1, USB 3.0 × 1 | | | |
| | RS-232 | 1 | | | |
| | Built-in Speakers | 8 W × 2 | | | |
| | Power Input | 100–240 V AC, 50/60 Hz | | | |
| | Power Consumption | ≤150 W | | | |
| | Standby Power | 0.5 W | | | |
| | VESA Mount | 200×200 mm / 400×400 mm and all mounting accessories | | | |
| | Certifications | CE, RoHS | | | |
| | Warranty | 2 years service and parts | | | |
| 43" FHD | | | | | |
| | Manufacture, Country | | | | |
| | Brand Name | | | | |
| | Model No. | | | | |
| | Loudspeaker | 5W * 2 | | | |
| | VESA | M4 200mm*200mm with IR | | | |
| | HDMI In | 1 | | | |
| | VGA In | 1 | | | |
| | Audio In | 1 | | | |
| | Backlight | D-LED Backlight | | | |

| S.N | Category | Specification | Unit | Qty | Rate |
|---|---------------------------|--|------|-----|------|
| 46 | Screen Size | 42.5 inch | pcs | 1 | |
| | Pixel Pitch | 0.49(H)mm * 0.49(V) mm | | | |
| | Max Resolution | 1920 * 1080 | | | |
| | Refresh Rate | 60Hz | | | |
| | Brightness | 350 cd/m ² | | | |
| | Contrast | 1200:1 | | | |
| | Response Time | 8ms | | | |
| | Color | 16.7M | | | |
| | Active Area | 940.896 (H) × 529.254(V) mm | | | |
| | Viewing Angle | Horizontal 178°, Vertical 178° | | | |
| | Power Supply | 100 to 240 V AC, 50/60Hz | | | |
| | Standby Power Consumption | 0.5W | | | |
| | Power Consumption | ≤120W | | | |
| | Warranty | 2 years service and parts | | | |
| 32" inch interactive koisk | | | | | |
| 47 | Manufacture, Country | | pcs | 1 | |
| | Brand Name | | | | |
| | Model No. | | | | |
| | Storage | 4 GB RAM, 32 GB ROM | | | |
| | Contrast | 3000:1 | | | |
| | Resolution | 1920×1080 | | | |
| | Display Area | minimum 699mm*393mm | | | |
| | Brightness | 450cd/m | | | |
| | Viewing angle | 89/89/89/89(L/R/U/D) | | | |
| | Color | 16.7M | | | |
| | Consumption | 85W | | | |
| | Input | 100-240V AC, 50/60Hz | | | |
| | Net Size | 749*444*60mm | | | |
| | Installation | Floor Standing | | | |
| | CPU | ARM Coretex-A53 RK 3368, 8 core, 1:6 GHZ | | | |
| | Operating System | Android 13(upgradable) | | | |
| | Interface | 1×RJ5, 2×USB2.0, 1×Power | | | |
| | Speaker | 2×5W | | | |
| | Accessories | Power cord, Keys, Wifi-antena | | | |
| Touch | Yes | | | | |
| Warranty | 2 years service and parts | | | | |
| Speicification of Cloud Manageable 24 port Switch (4 10 Gbps SFP+ Port) | | | | | |
| 48 | Manufacturer, Country | | pcs | 1 | |
| | Brand | Ruijie Reyee preferred since most office network are in Ruijie Cloud or equivalent | | | |
| | Model | to be specified by bidders | | | |
| | Type | Layer 2+ Managed Ethernet Switch | | | |
| | Management | Cloud and App and Local Web GUI | | | |
| | Ports | 24 × 10/100/1000BASE-T RJ45 4 × 10Gbps SFP+ Uplinks with IR | | | |
| | PoE Support | No PoE | | | |
| | Jumbo Frame | 9216 bytes | | | |
| | Switching Capacity | Min 128 Gbps | | | |
| | Forwarding Rate | Min 95 Mpps | | | |
| | MAC Address Table | 16K | | | |

3
मुमुक्षु प्रशासकाय अधिकृत



| S.N | Category | Specification | Unit | Qty | Rate |
|---|------------------------------|--|------|-----|------|
| | VLAN Support | Up to 4094 VLANs | | | |
| | Link Aggregation | LACP Supported | | | |
| | Layer 2 Features | STP/RSTP, VLAN, Mirroring, Loop Protection, Storm Control | | | |
| | Cloud Management | Cloud Portal & Mobile App | | | |
| | Security | Port Isolation, Filtering, Storm Control | | | |
| | Surge Protection | ±6kV on ports and power | | | |
| | Cooling | Adaptive Fan | | | |
| | Power Input | 100–240V AC, 50/60 Hz | | | |
| | Warranty | 2 Years. | | | |
| Technical Specification Optical Fiber | | | | | |
| 49 | Manufacturer, Country | | pcs | 1 | |
| | Brand | | | | |
| | Model | | | | |
| | Fiber Type | Single Mode Fiber (SMF) | | | |
| | No. of Fibers per Loose Tube | 6 Core (6F) | | | |
| | Fiber Color Code | Blue, Orange, Green, Brown, Grey, White (or equivalent) | | | |
| | Fiber Attenuation @1310 nm | ≤ 0.36 dB/km | | | |
| | Fiber Attenuation @1550 nm | ≤ 0.22 dB/km | | | |
| | Strength Members | 1 mm × 2 Steel rods embedded in HDPE sheath | | | |
| | Loose Tube Count | 1 | | | |
| | Loose Tube Material | PBT (Polybutylene Terephthalate) | | | |
| | Loose Tube Nominal Diameter | 1.9 mm | | | |
| | Filling Compound | Thixotropic Jelly | | | |
| | Outer Jacket Material | HDPE | | | |
| | Outer Jacket Color | Black | | | |
| | Outer Jacket Thickness | 2.1 mm | | | |
| | Nominal Cable Diameter | 8 mm | | | |
| | Maximum Installation | 7000 N | | | |
| | Application | Outdoor / Duct / Road-side installation | | | |
| Technical Specification of 200 Meter Fiber drop cable | | | | | |
| 50 | Length | 200 meter | pcs | 1 | |
| | Core size | Larger (typically 50 or 62.5 micrometers). | | | |
| | Light propagation | Multiple modes of light travel through the core | | | |
| | Bandwidth | Lower bandwidth compared to single-mode. | | | |
| | Distance | Suitable for shorter distances. | | | |
| | Applications | Local area networks (LANs), data centers, and short-distance connections | | | |
| Specification of 3kVA Online UPS | | | | | |
| | Manufacture, Country | | | | |
| | Brand Name | | | | |
| | Model No. | | | | |

| S.N | Category | Specification | Unit | Qty | Rate |
|--|--------------------------|--|------|-----|------|
| 51 | Topology | Online Double Conversion | pcs | 1 | |
| | Output Power | 3kVA / 2700W with IR | | | |
| | Output Voltage | 220V | | | |
| | Input Voltage Range | 160 - 300 VAC | | | |
| | Frequency | 50Hz | | | |
| | Efficiency | >=90% | | | |
| | AC mode to Battery Mode | 0 ms | | | |
| | Humidity | 0 - 95% (non-condensing) | | | |
| | Battery Voltage | 48V DC (External) | | | |
| | Communication Ports | RS232, USB, Mini Slot | | | |
| | SNMP | YES, Supported | | | |
| | Certifications | ISO Certified Company (QMS)/Product | | | |
| | Warranty | 1 year | | | |
| Technical Specification of Small UPS(12 V Battery with 6A MCB in Pole) | | | | | |
| 52 | Input: | 220-240V AC, 50Hz | pcs | 1 | |
| | Output: | 220-240V AC (Pure Sine Wave) | | | |
| | Battery: | 12V DC (7Ah/12Ah/20Ah, AGM/LiFePO4) | | | |
| | Inverter Capacity: | 300W-500W (supports 1-4 cameras) | | | |
| | MCB Protection: | 6A (for overload/short-circuit safety) | | | |
| | 7Ah Battery: | ~4-5 hrs (1 cam @10W) | | | |
| | Auto-switch | during power cuts (<10ms) | | | |
| | Low-voltage cutoff | (10.5V) to protect battery | | | |
| | Surge & spike protection | (for pole-mounted safety) | | | |
| | Weatherproof enclosure | Inside Pole Metal Box | | | |
| | Pole-mounted | with secure clamps | | | |
| | Wiring: | 6A MCB on input, fused 12V battery terminals | | | |
| | Warranty | 1 Year | | | |
| Network Monitoring System (NMS) and Alert System – Technical Requirements (The server resources shall be provided by municipality) | | | | | |
| 53 | 1.1 | Centralized NMS for real-time monitoring of ONTs and IP CCTV over FTTH network | pcs | 1 | |
| | 1.2 | 24x7 continuous monitoring | | | |
| | 1.3 | Role-based access for Police, Municipality IT, and Maintenance Teams | | | |
| | 1.4 | Scalability for future expansion (Licence Free) | | | |
| | 2.1 | ONU online/offline status monitoring | | | |
| | 2.2 | Automatic alerts for ONU offline and restoration | | | |
| | 2.3 | ONU alert details included | | | |
| | 3.1 | Identification of ONU offline causes | | | |
| | 3.2 | Supported ONU offline reasons | | | |
| | 3.3 | Logging and alerting of ONU offline reasons | | | |
| | 4.1 | CCTV camera online/offline monitoring | | | |
| | 4.2 | CCTV failure and restoration alerts | | | |
| | 4.3 | CCTV alert details included | | | |
| | 5.1 | Identification of CCTV offline causes | | | |
| | 5.2 | Supported CCTV offline reasons | | | |
| | 5.3 | Logging and reporting of CCTV offline reasons | | | |

22/12/2023
प्रमुख प्रशासकाय अधिकृत



| S.N | Category | Specification | Unit | Qty | Rate |
|-----|----------|--|------|-----|------|
| 6.1 | | Multi-channel alerts (Email, WhatsApp, Teams, Discord) | | | |
| 6.2 | | Alert distribution to all stakeholders | | | |
| 6.3 | | Customizable alert templates | | | |
| 7.1 | | Configurable alert severity levels | | | |
| 7.2 | | Alert escalation rules | | | |
| 7.3 | | Configurable escalation policies | | | |
| 8.1 | | Historical event and alert logs | | | |
| 8.2 | | Report generation and SLA analysis | | | |
| 8.3 | | Report export in PDF and Excel | | | |
| 9.1 | | Role-based access control | | | |
| 9.2 | | Secure and auditable access | | | |
| 9.3 | | Secure communication protocols | | | |

Submitted By

Signature
Name and Designation of Signatory
Firms Name
Seal of Firm