



माछापुच्छ्रे गाउँपालिका

Machhapuchchhre Rural Municipality



गाउँ कार्यपालिकाको कार्यालय

Office of the Rural Municipal Executive

पत्र संख्या

Letter No.:

चलानी नं.

Dispatch No.:

लाहाचोक, कास्की

Lahachowk, Kaski

गण्डकी प्रदेश, नेपाल

Gandaki Province, Nepal

मिति: २०८२/०२/२९

विषय: कोटेशन पेश गर्ने सम्बन्धी सूचना ।

यस माछापुच्छ्रे गाउँपालिकाको आर्थिक वर्ष २०८१/८२ को प्रशासकीय सुशासन (सफ्टवेयर, सिस्टम तथा इन्टरनेट जडान विस्तार नेटवर्किङ तथा नवीकरण) स्वीकृत कार्यक्रम अनुसार नयाँ प्रशासनिक भवनमा इन्टरनेट जडानका लागि नेटवर्किङ विस्तार गर्नुपर्ने भएको हुदा के कति दर रेटमा गर्न सकिन्छ तपशिल अनुसारका स्पेसिफिकेसन तथा कागजात संलग्न गरी सात दिन भित्र यस कार्यलयमा शिलबन्दी कोटेशन पेश गर्नुहुन यो सूचना प्रकाशित गरिएको छ ।

तपशिल:

१. कारोबार सञ्चालनका लागि अनुमति प्राप्त प्रमाण पत्र प्रतिलिपी ।
२. PAN तथा VAT मा दर्ता भएको प्रमाण पत्र प्रतिलिपी ।
३. २०८०/८१ को कर चुक्ता प्रमाण पत्र प्रतिलिपी ।
४. अङ्क र अक्षरमा स्पष्ट बुझिने गरी कोटेशन ।
५. सो संग सम्बन्धित अन्य कागजातहरु ।
६. सुचिकृत नभएको भए सो को लागि निवेदन तथा आवश्यक कागजात ।

(केशव सुवेदी)

प्रमुख प्रशासकीय अधिकृत

केशव सुवेदी

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Lahachowk, Kaski

Specification and Technical Requirements

SNO	PARTICULARS	QUANTITY	RATE	AMOUNT
1	16 PORT GIGA SWITCH	6		
2	INDOOR ACCESS POINT	8		
3	OUTDOOR ACCESS POINT	1		
4	MANAGEABLE SWITCH	1		
5	FIREWALL	1		
6	flexible pipe	20		
7	POWER SOCKET SINGLE	10		
8	27 U NETWORK RACK	1		
9	24 PORT PATCH PANEL	2		
10	LABELLING TAGS AND CABLE TIES	1		
11	CAT6 CABLE PURE COPPER	6		
12	rj45	500		
13	LISTIC 42MM	300		
14	24MM LISTIC	450		
15	PURE COPPER 2.5 MM WIRE	2		
16	INSTALLATION PLUS CONFIGURATION	51		
17	FACEPLATE double face	51		
18	MISCELLANEOUS	1		
19	32 MM LISTIC	250		
20	POWER DISTRIBUTION UNIT	1		
Total				

Rate including VAT.

1. 16 port giga switch specs

Feature	Specification
Ports	16 × Gigabit RJ45
Switching Capacity	32 Gbps / 23.8 Mpps
MAC Table / Cache	8 K entries / 4.1 Mbits
Power (AC)	100–240 VAC, ≤12 W
Environmental Range	0–40 °C (up to 55 °C); –40–85 °C store




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Feature	Specification
Surge Protection	4 kV RJ45 ports
Mounting	Rack 1U / desktop / wall
Cooling	Fan-free, silent operation

2. Indoor ap specs

- ☐ **Wi-Fi Standard:** Dual-band 802.11ax (Wi-Fi 6), AX1800 (574 Mbps + 1201 Mbps)
- ☐ **Ports:** 2× Gigabit LAN (1× PoE+, 802.3at)
- ☐ **Mounting:** Ceiling/Wall
- ☐ **Power:** ≤15.5W via PoE+ or DC 12V
- ☐ **User Capacity:** Up to 512 clients
- ☐ **Built-in captive portal** for guest login
- ☐ Supports **custom ads, images, redirects** (e.g., website, Facebook, YouTube)

3. Outdoor ap specs

Wireless Features

- **Standard:** IEEE 802.11a/b/g/n/ac/ax (Wi-Fi 6 AX1800; 574 Mbps @2.4 GHz + 1201 Mbps @5 GHz = 1775 Mbps)
- **Radio:** Dual-band 2×2 MU-MIMO
- **Max Clients:** 256 (recommended ~100)
- **SSIDs:** Up to 8 simultaneously
- **Built-in omni-directional 4-antenna array:** 3 dBi @2.4 GHz, 4 dBi @5 GHz
- **Coverage radius up to** ~100 m (2.4 GHz), 300 m (5 GHz)
- **IP Rating:** IP68 sealed for waterproof/dustproof, flame-retardant, resistant to wind erosion
- **Surge Protection:** 4 kV lightning protection
- **Temperature Range:** -30 °C to +65 °C (operational)
- **Ethernet:** 2 × 1 GbE (LAN1 supports PoE+ 802.3at)
- **Power Options:** 802.3at PoE+ AND /or 12 V DC 1.5–2 A input (dual power redundancy)

4. Cat6 specs

- ☐ **Category:** Cat 6, U/UTP, solid bare copper conductor (99.95%)



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- ☐ **Conductor diameter:** 0.55 ± 0.005 mm (23 AWG)
- ☐ **Insulation:** HDPE, 0.98 ± 0.05 mm
- ☐ **Sheath:** PVC, thickness 0.50 ± 0.10 mm; overall diameter $\sim 6.0 \pm 0.3$ mm
- ☐ **Standards:** ANSI/TIA-568-C.2, IEC 61156, ISO/IEC 11801; RoHS 2.0 compliant
- ☐ **Performance:**
 - Impedance: $100 \pm 15 \Omega$ (≤ 100 MHz), $\pm 25 \Omega$ (100–250 MHz)
 - Delay Skew: ≤ 45 ns/100 m
 - DC resistance: $\leq 9.38 \Omega/100$ m; unbalance $\leq 5\%$
 - Fluke test compliance: 100 m channel at 50 °C & PoE loaded (57 V/1 A)
- ☐ **Mechanical:** Tensile ≥ 13.5 MPa, elongation $\geq 150\%$, cold bend at -20 °C
- ☐ **Length:** 305 ± 1.5 m; weight $\sim 12.3 \pm 0.5$ kg

5. 27U Floor-Standing Network Rack

- **Height:** 27U (~ 1.2 m); **Width:** 19" (482.6 mm); **Depth:** 600–1,000 mm (select per equipment needs)
- **Load Capacity:** 200–1,000 kg; **Material:** Steel or aluminum alloy
- **Doors:** Glass/vented/solid, lockable; **Panels:** Removable, reversible
- **Rails:** EIA-310 compliant, square/tapped/M6; **Cooling:** Ventilated doors and panels
- **Accessories:** Castors, leveling feet; optionally fans & cable management

6. Manageable switch

- ☐ **Ports:** $16 \times 10/100/1000$ Mbps PoE+ ports + $2 \times$ Gigabit SFP uplink ports
- ☐ **PoE Standard:** IEEE 802.3at (PoE+)
- ☐ **Total PoE Power Budget:** 240 Watts
- ☐ **Switch Type:** Layer 2 Managed, Cloud Managed
- ☐ **Switching Capacity:** up to 56 Gbps
- ☐ **Forwarding Rate:** 41.67 Mpps
- ☐ **Management Features:** VLAN (802.1Q), QoS, Link Aggregation (LACP), SNMP, CLI, Web GUI, Loop Detection, Port Mirroring
- ☐ **Cooling:** Fan-cooled for reliable operation




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□ **Use Case:** Ideal for medium-sized networks powering multiple Wi-Fi APs, IP cameras, VoIP phones

□ **Additional:** Supports remote cloud management, PoE scheduling, ACLs for network security

7. Firewall specs

□ **Device Type:** Next-Generation Firewall (NGFW)

□ **Throughput:** Up to 3.2 Gbps firewall throughput

□ **Concurrent Sessions:** High concurrent sessions capacity (exact depends on config)

□ **VPN:** Supports IPSec, SSL VPN for secure remote access

□ **Ports:**

- Multiple Gigabit Ethernet ports (usually 4 or more)
- WAN/LAN configurable ports

□ **Security Features:**

- Stateful firewall
- Intrusion Prevention System (IPS)
- Anti-virus, Anti-malware scanning
- URL filtering and application control
- DoS/DDoS protection

□ **Management:** Web GUI, CLI, cloud-based management options

□ **Additional:**

- Supports VLAN, NAT, QoS
- High availability and load balancing option

Note: The company/supplier of Networking Devices must provide a one-year warranty and maintenance




(Keshav Subedi)
Chief Administrative Officer

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