

Tender Document

1. List of Goods and Related Services

S.N.	Classification	Price	Quantity	Total Price
1	64 Channel NVR for Camera Recording 8 SATA		3	
2	Surveillance Hard Disk Drive 8 TB		6	
3	43 Inch UHD Surveillance Monitor Monitor with Wall mount		3	
4	43 Inch HD Monitor For NVR with Wall mount		3	
5	24 Port Gigabit switch		1	
6	6 Port PDU(Branded)		1	
7	18U deep floor Rack for NVR(Branded)		3	
8	Monitoring Room Access Control Set		1	
9	Installation and configuration charge including Required HDMI cable, Patch cable and accessories for NVR setup and Access control Setup		3	
Total				
13% VAT				
Grand Total				

Note: NVR, Switch, Access control and surveillance monitor must be from the same OEM to ensure seamless operation within a single VMS. Please provide Datasheet to confirm the technical Specification.

2. Delivery and Completion Schedule

The Supplier shall deliver the listed goods and complete the related services within **sixty (60) calendar days** from the date of contract signing, unless otherwise mutually agreed in writing.

To ensure timely commencement of the project, the Purchaser kindly requests:

- **At least one (1) unit of the major equipment** (such as NVR, Monitor, or Access Control Set) to be delivered within **seven (7) days** from contract signing, for initial setup and verification purposes. Priority may be given to stock availability.



3. Technical Specifications

The following minimum technical specifications shall be fulfilled by the bidder:

Specification NO. 1: 64 Channel NVR :-

S.N	Minimum Requirements
1	Make : (Must be Full Member of ONVIF)
2	Model:
3	Recording Resolution: Upto 32 MP
4	Channel : 64 Channel Video input
5	Incoming Bandwidth: 384 Mbps or better
6	Outgoing Bandwidth: 256 Mbps or better
7	Video compression : H.265+ Compression
8	Display output : 2HDMI and 2 VGA
9	HDMI Resolution : 8K (7680 × 4320)/30Hz
10	Synchronous Playback; 16 Channels or above
11	Decoding Capacity: 2-ch@32 MP (30 fps) + 2-ch@8 MP (30 fps)/10-ch@8 MP (30 fps)/20-ch@4 MP (30 fps)/40-ch@1080p (30 fps)
12	Audio : Supported recording and playback
13	Ports : Serial Interface 1 RS-485 (full-duplex), 1 RS-232, eSATA : 1 eSATA interface Alarm: In/Out 16/9 USB Interface Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0
14	SATA Port: 8 SATA
15	SATA Port Capacity : Upto 16TB Each
16	RAID Type: Supports RAID 0, 1, 5, 6, 10 and N+M hot spare
17	Mobile Phone Access: Android, iOS
18	Smart Function: Support multiple VCA (Video Content Analytics) events , Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.) and ANPR
19	Multi-Channel record Playback : Yes
20	Power Supply : 100 to 240 VAC, 50 to 60 Hz
21	Network Protocol : TCP/IP, DHCP, Cloud p2p, DNS, DDNS, NTP, SMTP, NFS, iSCSI, UPnP, HTTP
22	External Ports: 2 X USB 2.0, 1 X RJ-45 10/100/1000M Ethernet Port
23	Certification: FCC, CE
24	The Supplier shall be fully responsible for the complete installation, configuration, testing, commissioning, and basic operational training of all supplied equipment and systems.
25	Warranty : 1 Year
26	<p>1. Manufacturer's Authorization Letter: All the technical parameters should be confirmed by the Original Manufacturer on their duly signed compliance sheet on their letterhead for this project.</p> <p>2. The bidder must provide at least one certified professional holding valid certifications in CCTV Systems, Video Management Systems (VMS), and Surveillance. Each certificate must clearly state the certificate number, the name of the certified professional, and the commitment letter to confirm the professional's availability for project support. Copies of all certificates along with the professional's CV must be submitted with the bid.</p>



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Specification NO. 2: 43 inch Surveillance Monitor :-

S.N	Minimum Requirements
1	Model:
2	Screen Size: 43 inch
3	Resolution: Ultra HD 3840 x2160 @60 Hz.
4	Wide viewing angle: Horizontal 178°, Vertical 178°.
5	Ultra-thin device body with ultra-thin border for 3 sides.
7	Build-in speaker, Audio 10W*2
8	3D noise reduction: yes
9	Low blue light design for eye care.
10	Support VESA wall mount.
11	Backlight: D-LED
12	Pixel Pitch :0.2451 (H) × 0.2451 (V) mm
13	Brightness:300 cd/m2
14	Contrast Ratio 4000 : 1
15	Response Time 6.5 ms (typ)
16	Bezel Width 0.04 inch (top/left/right) , 0.94 inch (bottom)
17	Refresh Rate 60 Hz
18	Haze 25%
19	Color Gamut 72% NTSC
20	Reliability 7 * 24H
21	Video & Audio Input HDMI × 1, DP × 1, VGA × 1, LINE IN × 1
22	Video & Audio Output Speaker OUT × 2 (8Ω 10W)
23	Control Interface RS232-IN × 1, RS232-OUT × 1
24	Power Consumption ≤ 80W
25	The Supplier shall be fully responsible for the complete installation, configuration, testing, commissioning, and basic operational training of all supplied equipment and systems.
26	Warranty : 1 Year
27	1. Manufacturer's Authorization Letter: All the technical parameters should be confirmed by the Original Manufacturer on their duly signed compliance sheet on their letterhead for this project. 2. The bidder must provide at least one certified professional holding valid certifications in CCTV Systems, Video Management Systems (VMS), and Surveillance. Each certificate must clearly state the certificate number, the name of the certified professional, and the commitment letter to confirm the professional's availability for project support. Copies of all certificates along with the professional's CV must be submitted with the bid.



Specification NO. 3: Access Control Device		
SN	Category	Specification
	Model:	
1	System	Operating System: Linux
2	Display	Dimensions: 4.3-inch Resolution touch screen
3	Video	2 MP Lens: x2 Video Standard: PAL (Default) / NTSC
4	Network	Wired Network: 10 M/100 M self-adaptive Wi-Fi: Support
5	Interface	PoE: IEEE802.3at, standard PoE Network Interface: 1 RS-485: 1 Wiegand: 1 Lock Output: 1 Exit Button: 1 Door Contact Input: 1 TAMPER: 1 USB: 1
6	Capacity	Card Capacity: 3,000 Face Capacity: 1,500 Fingerprint Capacity: 3,000 Event Capacity: 150,000
7	Authentication	Card Type: EM1 card Card Reading Frequency: Recognition Duration: <0.2 s Face Recognition Accuracy Rate: >99% Face Recognition Distance: 0.3 to 1.5 m Fingerprint Recognition Duration: <1 s
8	Function	Face Anti-Spoofing: Support Audio Prompt: Support Time Synchronization: Support Compatible with DOIT Software
9	Power Supply	Power Input: Power interface (adapter included, 12 VDC/1 A) or PoE (37–57 VDC/0.6
10	Warranty	1 Year
11	Criteria	<p>1. Manufacturer's Authorization Letter: All the technical parameters should be confirmed by the Original Manufacturer on their duly signed compliance sheet on their letterhead for this project.</p> <p>2. The bidder must provide at least one certified professional holding valid certifications in CCTV Systems, Video Management Systems (VMS), and Surveillance. Each certificate must clearly state the certificate number, the name of the certified professional, and the commitment letter to confirm the professional's availability for project support. Copies of all certificates along with the professional's CV must be submitted with the bid.</p>

Specification NO. 4: Surveillance Class Hard Disk		
SN	Category	Specification
1	Model	
2	Interface Speed	SATA
3	Capacity	8TB
4	Interface Speed	6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s
5	Rotation Speed	7200 rpm
6	Buffer Size	256 MB
7	Maximum Data Transfer Speed	220 MB/s
8	Supply Voltage	Allowable Voltage: 12 V ± 10%, 5 V ± 5%



9	Power Consumption	Operating (Typ.): 8.08 W Active idle (Typ.): 4.16 W Standby (Typ.): 0.43 W
10	Acoustics (Sound Power)	Low Power Idle (Typ.): 31 dB
11	Ambient Temperature	Operating: 5 °C to 55 °C Non-Operating: -40 °C to 70 °C
12	Shock	Operating: 490 m/s ² (50 G, 2 ms) Non-Operating: 1960 m/s ² (200 G, 2 ms)
13	Vibration	Operating: 7.35 m/s ² (0.75 G, 5–300 Hz) 2.45 m/s ² (0.25 G, 300–500 Hz) Non-Operating: 29.4 m/s ² (3.0 G, 5–500 Hz)
14	MTTF / AFR	2,000,000 hours / 0.44%
15	Non-recoverable Error Rate	10 errors per 10 ¹⁶ bits read
16	Load / Unload	600,000 times
17	Availability	24 hours/day, 7 days/week
18	Warranty	1 Year
19	Criteria	<p>1. Manufacturer's Authorization Letter: All the technical parameters should be confirmed by the Original Manufacturer on their duly signed compliance sheet on their letterhead for this project.</p> <p>2. The bidder must provide at least one certified professional holding valid certifications in CCTV Systems, Video Management Systems (VMS), and Surveillance. Each certificate must clearly state the certificate number, the name of the certified professional, and the commitment letter to confirm the professional's availability for project support. Copies of all certificates along with the professional's CV must be submitted with the bid.</p>

Specification No. 5: Gigabit Network Switch (16 Ports)		
S.N	Minimum Requirements (Specifications)	
1	Ports	16*10/100/1000 Mbps Adaptive Ethernet ports
2	Device Type	Switch -16 Ports- Unmanaged
3	Switching capacity	32Gbps
4	Packet forwarding rate	23 Mbps or more
5	Internal cache	more than 4 Mbits
6	MAC Address Table Size	8K
7	Voltage Required	100-240V AC /50-60 Hz universal input
8	Localization	English
9	Performance	Switching capacity : 16Gbps
10	Warranty:	1 Year Warranty.



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11	Criteria	<p>1. Manufacturer's Authorization Letter: All the technical parameters should be confirmed by the Original Manufacturer on their duly signed compliance sheet on their letterhead for this project.</p> <p>2. The bidder must provide at least one certified professional holding valid certifications in CCTV Systems, Video Management Systems (VMS), and Surveillance. Each certificate must clearly state the certificate number, the name of the certified professional, and the commitment letter to confirm the professional's availability for project support. Copies of all certificates along with the professional's CV must be submitted with the bid.</p>
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Specification NO. 6: 43 inch Monitor :-

S.N	Minimum Requirements
1	Model:
2	Screen Size: 43 inch
3	Resolution: Full HD (1920 × 1080 pixels) or higher
4	Panel Type: LED / LCD
5	Aspect Ratio: 16:9
6	Refresh Rate: 60 Hz
7	Audio: Output: 16W–20W (typical) stereo speakers Sound Modes: Standard / Music / Movie / News
8	Energy Saving Mode
9	Port: HDMI 2 Ports minimum, USB 1 Port Minimum
10	The Supplier shall be fully responsible for the complete installation, configuration, testing, commissioning, and basic operational training of all supplied equipment and systems.
11	Warranty : 1 Year

Specification NO. 7: 43 inch Monitor :-

S.N	Minimum Requirements
1	Model:
2	Screen Size: 43 inch
3	Resolution: Full HD (1920 × 1080 pixels) or higher
4	Panel Type: LED / LCD
5	Aspect Ratio: 16:9
6	Refresh Rate: 60 Hz
7	Audio: Output: 16W–20W (typical) stereo speakers Sound Modes: Standard / Music / Movie / News



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8	Energy Saving Mode
9	Port: HDMI 2 Ports minimum, USB 1 Port Minimum
10	The Supplier shall be fully responsible for the complete installation, configuration, testing, commissioning, and basic operational training of all supplied equipment and systems.
11	Warranty : 1 Year

4. Terms and Conditions

1. The bidder must be a legally registered company/firm with valid registration documents.
2. The bidder must submit a copy of PAN/VAT registration certificate along with the bid.
3. The quoted price shall be in NPR (Nepalese Rupees) and inclusive of all applicable taxes, duties, and delivery charges.
4. The supplier shall provide at least one year of comprehensive warranty commitment letter for all supplied equipment.
5. The supplier must ensure proper installation, configuration, testing, and commissioning of the supplied equipment.
6. The bidder shall submit brochures/datasheets of the quoted items along with the bid for verification of specifications.
7. Payment shall be made after successful delivery, installation, and acceptance of goods and services by the Purchaser.
8. In case of delay in delivery or non-compliance with specifications, the Purchaser reserves the right to impose penalties or cancel the contract.
9. The supplier shall provide necessary training to the Purchaser's staff for operation and basic troubleshooting of the supplied system.
10. Any dispute arising out of this procurement process shall be settled as per the prevailing laws of Nepal.
11. The Purchaser reserves the right to accept or reject any bid, wholly or partly, without assigning any reason whatsoever.



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