



“औद्योगिक, पर्यटकीय र हरित नगर, स्वच्छ, सुरक्षित र समृद्ध नगर”

## दमक नगरपालिका नगर कार्यपालिकाको कार्यालय



प.सं.: २०८०/०८१ सूचना शाखा  
च.नं.:

दमक, झापा,  
कोशी प्रदेश, नेपाल

☎ ०२३-५९७०००


श्री सम्पूर्ण सूचीकृत सबै फर्महरु



बिषय: सूचीकृत भई दररेट पेश गर्ने सम्बन्धमा

(दोश्रो पटक प्रकाशित सूचना मिति: २०८१।०१।२७)

यस दमक नगरपालिकाको ३ नं. वडाको बिभिन्न स्थानहरुमा सि.सि.टिभी जडान गर्नुपर्ने भएकोले स्पेशिफिकेशन तथा BOQ अनुसारको सामग्रीहरु खरिद गर्नुपर्ने भएको हुँदा मिति २०८१।०१।३१ गते सोमवार ४ बजे सम्ममा दमक नगरपालिकाको कार्यालयमा उपलब्ध गराइदिनुहुन सम्पूर्ण सूचीकृत फर्महरुलाई अनुरोध छ। सोही दिन दिनको ४:१५ बजे दररेट खोल्ने व्यहोरा समेत जानकारीको लागि अनुरोध छ।

  
समीप चुडल  
सूचना प्रविधि अधिकृत

आवश्यक कागजातहरु:

- फर्म दर्ता
- अधिल्लो आ.व. को कर चुक्ता
- भ्याट रजिस्ट्रेशन
- Filled Technical Specification Compliance Sheet

नोट: टेक्निकल स्पेशिफिकेशन दमक नगरपालिकाको वेबसाइट [damakmun.gov.np](http://damakmun.gov.np) मा राखिएको छ।

**Bill of Quantity (BOQ)**

To Damak Municipality,  
Office of Municipal Executive  
Damak, Jhapa  
Koshi Province, Nepal

**Subject: Rate Submission for CCTV in Ward No. 3**

SN	Item	Unit	Qty	Unit Price	Unit Price in Words	Total
1	Electricity Concentric Cable 10mm	meter	550			
2	4MP IP Bullet Color Camera (4mm) Location: Baghkhori Chowk (3) Aamchowk(3), Dhukurpani Chowk 3, Golatar Chowk (3), Mawa Bridge(2)	pcs	14			
3	32 Channel 4K NVR	pcs	1			
4	Pole Mount Bracket Branded	pcs	14			
5	4 TB Surveillance Hard disk	pcs	1			
6	Installation( Water proof Junction Box(ABS Material size min 290*215mm, depth 84mm)-1pcs, 1 DPMCB 6A, Power Supply Unit(12V, 10A) 1pcs, and all other required items like cat6, electric wires etc)	site	5			
7	Optical Fiber Lease (GPON) (4 port ONU , Fiber Drop Cable, etc shall ) and AMC Charge for 1 Year) 3 spot	ls	1			
<b>Total</b>						
<b>VAT 13%</b>						
<b>Total with VAT</b>						

**Submitted By:**

**Signature:**

**Name of Designation of:**

**Signatory:**

**Firms Name:**

**Seal of the Firm:**

**"Industrial, Touristic and Green City, Clean, Safe and Prosperous City"**



**Damak Municipality  
Office of the Municipal Executive  
Damak, Jhapa  
Koshi Province, Nepal**



**Technical Compliance Sheet for 4MP IP Bullet Cammer**

<b>SN</b>	<b>Parameters</b>	<b>Requirements</b>	<b>Compliance (Fully Compliant, Partially Compliant, Non Compliant) or Bidders Offer</b>
	Manufacture	To be filled by bidder	
	Brand	To be filled by bidder	
	Model No	To be filled by bidder	
<b>1</b>	<b>Camera</b>		
	Image Sensor	1/1.8" Progressive Scan CMOS	
	Max. Resolution	2688 × 1520	
	Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light	
	Shutter Speed	1/3 s to 1/100,000 s	
	Wide Dynamic Range	130 dB	
	Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	
<b>2</b>	<b>Lens</b>		
	Type	Fixed Focal Length, 4mm	
	Lens Type & FOV	4 mm, horizontal FOV 95°, vertical FOV 51°, diagonal FOV 115°	
	Aperture	F1.0	
<b>3</b>	<b>DORI</b>		
	DORI	4 mm, D: 77 m, O: 30 m, R: 15 m, I: 7 m	
<b>4</b>	<b>Illuminator</b>		
	White Light Range	60 m	
	Smart Supplement Light	Yes	
<b>5</b>	<b>Video</b>		
	Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)	
	Sub Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)	
	Video Compression	Main stream: H.265/H.264/H.265+/H.264+ Sub-stream: H.265/H.264/MJPEG	
	Video Bit Rate	32 Kbps to 8 Mbps	
	H.264 Type	Baseline Profile/Main Profile/High Profile	
	H.265 Type	Main Profile	
	Bit Rate Control	CBR/VBR	
	Scalable Video Coding (SVC)	H.264 and H.265 encoding	
	Region of Interest (ROI)	1 fixed region for main stream and sub-stream	
<b>6</b>	<b>Network</b>		
	Simultaneous Live View	Up to 5 channels	
	API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK	
	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket,	

	User/Host	Up to 20 users. 3 user levels: administrator, operator and user	
	Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface	
	Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)	
	Web Browser	Supported Yes	
<b>7</b>	<b>Image</b>		
	Day/Night Switch	Auto, Schedule	
	Image Enhancement	BLC, HLC, 3D DNR	
	Image Parameters Switch	Yes	
	Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser	
<b>8</b>	<b>Interface</b>		
	On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC/TF card, up to 512 GB	
	Hardware Reset	Yes	
	Communication Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port	
<b>9</b>	<b>Event</b>		
	Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception	
	Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection Scene change detection	
	Linkage	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email	
<b>10</b>	<b>Deep Learning Function</b>		
	Face Capture	Yes	
<b>11</b>	<b>General</b>		
	Power	12 VDC $\pm$ 25%, 0.7 A, max. 8.5 W, Ø5.5 mm coaxial power plug PoE: 802.3af, 36 V to 57 V, 0.30 A to 0.18 A, max. 12 W	
	Web Client Language	English	
	General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email	
	Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)	
<b>12</b>	<b>Approval</b>		
	EMC	Yes	
	Safety	Yes	
	Environment	yes	
	Protection	IP67	

*"Industrial, Touristic and Green City, Clean, Safe and Prosperous City"*



**Damak Municipality**  
Office of the Municipal Executive  
Damak, Jhapa  
Koshi Province, Nepal



**Technical Compliance Sheet for 4K NVR 32 Channel**

<i>Feature</i>	<i>Specification</i>	<i>Compliance (Fully Compliant, Partially Compliant, Non Compliant) or Bidders Offer</i>
<b>Manufacture, Country</b>	To filled by Bidder	
<b>Brand Name</b>	To filled by Bidder	
<b>Model No.</b>	To filled by Bidder	
<b>Video Compression/Format</b>	H.265/ H.265+/ H.264+/ H.264	
<b>Video Output (VGA)</b>	1-ch, 1920 1080/60 Hz, 1280 1024/60 Hz, 1280 720/60 Hz	
<b>Video Output (HDMI)</b>	1-ch, 4K (3840 2160)/30 Hz, 2K (2560 1440)/60 Hz, 1920 1080/60 Hz, 1600 1200 /60 Hz, 1280 1024/60 Hz, 1280 720/60 Hz, 1024 768/60 Hz	
<b>Video Recording Res.</b>	1920 x 1080	
<b>Max. Video Recording Res.</b>	3840 x 2160	
<b>IP Video Input</b>	32-ch	
<b>Audio Input Channel (RCA)</b>	1 Channel RCA	
<b>Audio Compression</b>	G.711ulaw/G.711alaw/G.722/G.726/AAC	
<b>Audio Output Channel</b>	1 Channel RCA	
<b>Two way Audio</b>	1-ch, RCA (Linear, 1 KΩ)	
<b>Stream Type</b>	Video, Video & Audio	
<b>Live View / Playback Resolution</b>	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF	
<b>Decoding Capability</b>	AI on: 1-ch@12 MP (30 fps)/2-ch@8 MP (30 fps)/4-ch@4 MP (30 fps)/8-ch@1080p (30 fps), AI off: 2-ch@12 MP (30 fps)/3-ch@8 MP (30 fps)/6-ch@4 MP (30 fps)/ 12-ch@1080p (30 fps)	
<b>Synchronous Playback</b>	16-ch	
<b>Network Protocol</b>	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP, HTTP, HTTPS	
<b>Number HDD Interface (SATA)</b>	2 SATA	
<b>Max HDD Support (GB,TB)</b>	Up to 10TB capacity for each HDD	
<b>Max. Storage Support</b>	20TB	
<b>Network Interface (RJ45)</b>	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface	
<b>USB Port</b>	Front panel: 1 x USB 2.0; Rear panel: 1 x USB 2.0	
<b>Remote Connections</b>	128	
<b>Video Detection</b>	Motion Detection 2.0	
<b>Power Supply</b>	12 VDC, 3.3 A	
<b>Approx. Power Consumption</b>	< 15 W (without HDD)	
<b>API</b>	ONVIF (profile S/G); SDK; ISAPI	



*"Industrial, Touristic and Green City, Clean, Safe and Prosperous City"*

**Damak Municipality**  
**Office of the Municipal Executive**  
**Damak, Jhapa**  
**Koshi Province, Nepal**



**Technical Compliance Sheet for 4TB Surveillance HDD**

<i>Feature, Specification</i>		<i>Compliance (Fully Compliant, Partially Compliant, Non Compliant) or Bidders Offer</i>
<b>Manufacture, Country</b>	To filled by Bidder	
<b>Brand Name</b>	To filled by Bidder	
<b>Model No.</b>	To filled by Bidder	
Capacities	4TB / 4000GB	
Interface	SATA 6Gb/s	
<b>FEATURES AND PERFORMANCE</b>		
Drive Bays Supported	8+	
Cameras Supported	Up to 64	
Max Sustained Transfer Rate OD (MB/s)	190	
Hard Disk Rotational Speed	5900 RPM	
Cache (MB)	64	
<b>RELIABILITY/DATA INTEGRITY</b>		
Tarnish Resistant	Yes	
Load/Unload Cycles	300,000	
Nonrecoverable Read Errors Rate, Max	1 per 10E14	
Power-On Hours per year	8760	
Workload Rate Limit (WRL)	180	
Mean Time Between Failures (MTBF) (hours)	1M	
<b>POWER MANAGEMENT</b>		
Startup Current, Typical (12V, A)	1.8	
Average Operating Power (W)	5.5	
Idle Average (W)	3.2	
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	
Voltage Tollerance (5V)	±5%	
Voltage Tolerance (12V)	±10%	
<b>ENVIRONMENTAL/TEMPERATURE</b>		
Operating (ambient, min °C)	0	
Operating (drive case, max °C)	70	
Nonoperating (ambient, min °C)	-40	