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: Baghkhor 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 Survelliance 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			
	Total	<u>. </u>	·			
	VAT 13%					
	Total with V	ΆΤ				

Subject: Rate Submission for CCTV in Ward No. 3

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

Feature	Specification	Compliance (Fully Compliant, Partially Compliant, Non Compliant) or Bidders Offer
Manufacture, Country	To filled by Bidder	
Brand Name	To filled by Bidder	
Model No.	To filled by Bidder	
Image Sensor	1/3" Progressive Scan CMOS	
Max. Resolution	2560×1440	
Min. Illumination	Color: 0.001 Lux @(F1.0, AGC ON), 0 Lux with white light	
Shutter Time	1/3 s to 1/100, 000 s	
Day & Night	24/7 Color	
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	
Focal Length & FOV	2.8 mm, horizontal FOV 96.5°, vertical FOV 50.8°, diagonal FOV 113.9°	
Aperture	F1.0	
Supplement Light Range	White light Up to 30 m	
Main Stream	50 Hz: 20 fps (2560 × 1440) 25 fps (1920 × 1080, 1280 × 720)	
Sub-Stream	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)	
Video	Main stream: H.265/H.264	
Compression	Sub-stream: H.265/H.264/MJPEG	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS	
API	Open Network Video Interface, ISAPI	
Region Of Interest	(ROI)1 fixed region for main stream	
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC, Environment Noise Filtering-UF: Yes	
Image	WDR 120 DB, Image Enhancement BLC, 3D DNR, Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser.	
Ethernet	1 RJ45 10 M/100 M self-adaptive Ethernet port	
Interface Basic Event	Motion detection, video tampering alarm, exception	
Power	12 VDC \pm 25%, 0.4 A, PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A,	
Protection	V, 0.2 A to 0.15 A, 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

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

Feature, Specificati	Compliance (Fully Compliant, Partially Compliant, Non Compliant) or Bidders Offer	
Manufacture, Country	To filled by Bidder	
Brand Name	To filled by Bidder	
Model No.	To filled by Bidder	
Capacities	4TB / 4000GB	
Interface	SATA 6Gb/s	
FEATURES AND PERFORMANCE	-	-
Drive Bays Supported	8+	
Cameras Supported	Up to 64	
Max Sustained Transfer Rate OD (MB/s)	190	
Cache (MB)	64	
RELIABILITY/DATA INTEGRITY	1	
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	
POWER MANAGEMENT	-	-
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%	
ENVIRONMENTAL/TEMPERATURE	-	•
Operating (ambient, min °C)	0	
Operating (drive case, max °C)	70	
Nonoperating (ambient, min °C)	-40	