

Dhangadhi Sub-Metropolitan City
Ward 4
CCTV and Accessories Specification



S. No.	Parameters	Minimum Specification	Specification Offered by the Vendor
Indoor IP CCTV Camera			
1	Item	Indoor IP CCTV Camera	
2	Brand	Any [Bidder Must Specify the Brand in their Bid. Assembled or Non-Genuine/Non-Branded system will not be accepted. CCTV and NVR should be of same Brand.]	
3	Model	Any [Bidder Must Specify the Model in their Bid]	
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]	
5	Colored or Monochrome	Colored	
6	Form Factor	Indoor Turret	
7	Image Sensor	1/3" CMOS sensor or better	
8	Max Resolution	2560 x 1440 or better, with ability to record at lower resolution	
9	Shutter Time	1/3s to 1/100000s or better	
10	Day and Night	24/7 color imaging	
11	Angle Adjustment	Pan: 0 to 340 degrees or better Tilt: 0 to 60 degrees or better Rotate: 0 to 340 degrees or better	
12	Focal Length	Fixed focal length of 2.8mm or better	
13	Iris Type	Fixed	
14	Illuminator	White Light	
15	Illumination Range	Upto 15m or better	
16	Interface	1 x RJ45 10/100M self-adaptive Ethernet port	
17	Day/Night Autoswitch	Yes	
18	Video Bit Rate	32Kbps to 8Mbps or better	
19	Video Compression	Main Stream: H.265/H.265+/H.264/H.264+ or better Sub-Stream: H.265/H.264/MJPEG or better	
20	Network Protocols	TCP/IP, ICMP, HTTPS, FTP, or more	
21	Warranty	1 years of Full Warranty	
22	Mandatory Document/Points	1. Manufacturer Authorization Letter must be attached with the bid. 2. Model must be listed in Manufacturer Website with clearly listed specification. 3. Specsheet/Datasheet should be provided with the product.	
Outdoor IP CCTV Camera			
1	Item Type	Color Imaging 4MP Outdoor IP CCTV Camera	
2	Brand	Any [Bidder Must Specify the Brand in their Bid. Assembled or Non-Genuine/Non-Branded system will not be accepted. CCTV and NVR should be of same Brand.]	
3	Model	Any [Bidder Must Specify the Model in their Bid]	
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]	
5	Colored or Monochrome	Colored	
6	Form Factor	Outdoor Bullet	
7	Image Sensor	1/3" CMOS sensor or better	
8	Max Resolution	2560 x 1440 or better, with ability to record at lower resolution	
9	Shutter Time	1/3s to 1/100000s or better	
10	Day and Night	24/7 color imaging	



11	Angle Adjustment	Pan: 0 to 360 degrees or better Tilt: 0 to 180 degrees or better Rotate: 0 to 360 degrees or better
12	Focal Length	Fixed focal length of 4mm or better
13	Iris Type	Fixed
14	Illuminator	White Light
15	Illumination Range	Upto 15m or better
16	Interface	1 x RJ45 10/100M self-adaptive Ethernet port
17	Day/Night Autoswitch	Yes
18	Video Bit Rate	32Kbps to 8Mbps or better
19	Video Compression	Main Stream: H.265/H.265+/H.264/H.264+ or better Sub-Stream: H.265/H.264/MJPEG or better
20	Network Protocols	TCP/IP, ICMP, HTTPS, FTP, or more
21	Warranty	1 years of Full Warranty
22	Mandatory Document/Points	1. Manufacturer Authorization Letter must be attached with the bid. 2. Model must be listed in Manufacturer Website with clearly listed specification. 3. Specs sheet/Datasheet should be provided with the product.

NVR-16 Channel

1	Item Type	16 channel NVR
2	Brand	Any [Bidder Must Specify the Brand in their Bid. Assembled or Non-Genuine/Non-Branded system will not be accepted. CCTV and NVR should be of same Brand.]
3	Model	Any [Bidder Must Specify the Model in their Bid]
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]
5	Incoming Bandwidth	160Mbps or better
6	Outgoing Bandwidth	160Mbps or better
7	HDMI Output	4K, 2K, FHD, HD or more
8	Decoding	H.265/H.265+/H.264/H.264+/MJPEG or more
9	Recording Resolution	4MP or better
10	Synchronous Playback	16-channel
11	Stream Type	Video, Video and Audio
12	SATA Interfaces	4 or more
13	Capacity	10TB or more for each SATA interface
14	USB Interface	2 x USB 2.0 or better
15	Warranty	1 years of Full Warranty
16	Mandatory Document/Points	1. Manufacturer Authorization Letter must be attached with the bid. 2. Model must be listed in Manufacturer Website with clearly listed specification. 3. Specs sheet/Datasheet should be provided with the product.

Surveillance HDD

1	Item Type	Surveillance HDD
2	Brand	Any [Bidder Must Specify the Brand in their Bid.]
3	Model	Any [Bidder Must Specify the Model in their Bid]
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]
5	Hard Disk Interface	Serial ATA
6	Hard Disk Form Factor	3.5 Inches
7	Compatible Devices	Desktop, NVR
8	Installation Type	Internal Hard Drive

9	Hard Disk Size	10 TB	
10	Hard Disk Rotational Speed	5400 RPM or better	
11	Read/Write Speed	Minimum 180 MB/s or above	
12	Warranty	1 years of Full Warranty	
13	Mandatory Document/Points	1. Model must be listed in Manufacturer Website with clearly listed specification. 2. Specs sheet/Datasheet should be provided with the product.	

PoE Switch - 8 Port

1	Item Type	PoE Switch	
2	Brand	Any [Bidder Must Specify the Brand in their Bid.]	
3	Model	Any [Bidder Must Specify the Model in their Bid]	
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]	
5	Ports	8 x 10/100/1000Mbps PoE RJ45 Port	
6	PoE Standard	IEEE 802.3af, IEEE 802.3at or better	
7	Warranty	1 years of Full Warranty or more	
8	Mandatory Document/Points	1. Model must be listed in Manufacturer Website with clearly listed specification. 2. Specs sheet/Datasheet should be provided with the product.	

CAT6 Indoor UTP Cable

1	Item Type	CAT 6 Indoor UTP (Unshield Twisted Pair) Cable	
2	Brand	Any [Bidder Must Specify the Brand in their Bid.]	
3	Model	Any [Bidder Must Specify the Model in their Bid]	
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]	
5	Total Length	305 meters	
6	Conductor Material	Semi-Copper or Better	
7	Data Transfer Rate Support	Supports upto 1 Gbps	
8	Bandwidth	Upto 250 MHz	
9	Maximum Distance Supported	Upto 150 Mtr.	
10	Warranty	1 years of Full Warranty	

Smart TV

1	Item Type	Smart TV	
2	Brand	Any [Bidder Must Specify the Brand in their Bid. Assembled or Non-Genuine/Non-Branded system will not be accepted.]	
3	Model	Any [Bidder Must Specify the Model in their Bid]	
4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]	
5	Size	32"	
6	Resolution Support	Full-HD (1920 x 1080) Support	
7	Ports	1 x Power In port 1 x HDMI Port or more	
8	Accessories Included	Wall Mounting Bracket	
9	Warranty	years of Full Warranty	
10	Mandatory Document/Points	1. Model must be listed in Manufacturer Website with clearly listed specification. 2. Specs sheet/Datasheet should be provided with the product.	

Wireless Keyboard and Mouse Combo Set

1	Item Type	Keyboard and Mouse Combo Set	
2	Brand	Any [Bidder Must Specify the Brand in their Bid.]	
3	Model	Any [Bidder Must Specify the Model in their Bid]	

[Handwritten Signature]

[Handwritten Signature]

Legal Engineer

[Handwritten Signature]

Narendra Bahad
Chief Administrator

4	Country of Origin and Built Year	Any Country but the Built Year must not be older than 2024 [Bidder Must Specify the Country of Origin and Built Year in their Bid]	
5	Wired or Wireless	Wireless	
6	Transmission Upto	1.5m or more	
7	Warranty	1 years of Full Warranty	

Prepared by:
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IT Officer

Checked by:
Er. Deej Raj Bhatta
Divisional Engineer

Approved by:
Narendra Bahadur Khatri
Chief Administrative Officer

Narendra Bahadur Khatri
Chief Administrative Officer

Divisional Engineer

Dhangadhi Sub-Metropolitan City
Office of the Municipal Executive
Dhangadhi, Kailali
Lumbini Province, Nepal

Dhangadhi Sub-Metropolitan City
Dhangadhi, Kailali
Ward 4

Bill of Quantities (BoQ)

S. No.	Products	Quantity	Unit	Price per Unit	Total Price (In Number)
1	Indoor IP CCTV Camera	4	pcs.		
2	Outdoor IP CCTV Camera	4	pcs.		
3	NVR-16 Channel	1	pcs.		
4	Surveillance HDD	4	pcs.		
5	PoE Switch - 8 Port	2	pcs.		
6	CAT6 Indoor UTP Cable	500	mtr.		
7	Smart TV	1	pcs.		
8	Wireless Keyboard and Mouse Combo	1	pcs.		
9	Installation Charge	1	job		
Total					
VAT (+13%)					
Sub-Total (In Number)					
Sub-Total (In Words)					

Stamp of Firm/Company:

Signature of Authorized Person:

