



NORTH DUM DUM MUNICIPALITY

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Memo No: NDDM/PH/ 945

Date: 03.02.2026.

EXPRESSION OF INTEREST NOTICE

Chairman, North Dum Dum Municipality invites an EXPRESSION OF INTEREST NOTICE for selection of suitable **Rate of CCTV Surveillance System and its accessories** from ONLY eligible & resourceful companies or organizations. Intending eligible bidders are requested to submit their own letterhead in writing/ typing suitable rate from **05/12/2026 to 13/02/2026** against EOI notice in a sealed envelope. It is not obligatory to accept any of the proposals about matters of EOI notice by companies or organizations. After the end of the selection of EOI, the evaluation rate will be determined at the e-tender.

Rate of CCTV Surveillance System and its accessories.

1. TECHNICAL SPECIFICATIONS

SL. No.	Feature	Specification	Compliance YES / NO	Remarks
Item 1: 8 Channel NVR				
1	Processor	Industrial-grade processor		
2	Camera Input	8 channels		
3	Operating System	Embedded LINUX		
4	User Interface	Web, Local GUI		
5	Video Output	Simultaneous :1 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 1 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: 1 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 1 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
6	Abnormality Alarm	Camera disconnection, Storage error, Disk full, IP conflict, MAC conflict, Login locked and cybersecurity exception		
7	SMD Plus	Up to 4 channels Support		
8	Resolution	12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 2 MP, 960p, 720p, D1, CIF, QCIF		
9	Bandwidth	160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing		
10	Decoding	1 Channel 12 MP@30 fps, 2 Channel 8 MP@30 fps, 3 Channel 5 MP@30 fps, 4 Channel 4 MP@30 fps, 8 Channel 1080p@30 fps		
11	Audio Input/Output	1in/1out		
12	Audio Compression	G.711a/G.711u/PCM/G726/AAC		
13	Video Compression	H.265, H.264		
14	Alarm Input/Out	4/2channels		
15	Record Mode	General, motion detection, intelligent alarm		
16	Smart Phone	Support		
17	Hard Disk	2 SATA ports. Each disk can contain up to 16 TB.		
18	General Alarm	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm		
19	Browser	Chrome, IE9 and later, Firefox, Edge		

20	Interface Ports	2 USB , 1 HDMI, 1 VGA		
21	Ethernet	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
22	Protocols	HTTP, HTTPS, TCP/IP, IPv4, IPv6, UDP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, FTP, DDNS, SNMP, Alarm Server, P2P, Auto Registration, ONVIF 2.2(Profile T, Profile S, Profile G), CGI, SDK		
23	Backup Method	USB device and network		
24	Power Supply	12 VDC, 4 A		
25	Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
26	Operating Humidity	10%–93% (RH)		

Item 2: 2/4MP Bullet Camera

1	Image Sensor	1/2.9" PS CMOS Image Sensor		
2	Effective Pixels	Minimum 1920 (H) × 1080 (V)		
3	Minimum Illumination	0.005 lux@F1.6 (Color, 30 IRE), 0.0005 lux@F1.6 (B/W, 30 IRE), 0 lux (IR on)		
4	Angle Adjustment	Minimum Pan: 0°–360°, Tilt: 0°–90°, Rotation: 0°–360°		
5	Shutter Speed	Auto/Manual 1/3 s–1/100,000 s		
6	White Balance	Auto, Natural, Street lamp, Outdoor, Manual, Regional custom		
7	DORI Distance	Lens 3.6mm: 58.9 m (Detect), 23.6 m (Observe), 11.8 m (Recognize), 5.9 m (Identify); Lens 2.8mm: 44.1 m (Detect), 17.7 m (Observe), 8.8 m (Recognize), 4.4 m (Identify)		
8	Lens	3.6mm fixed Lens		
9	IR Range	30 Mtr.		
10	Protocol	SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast		
11	Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot		
12	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
13	Operating Humidity	≤95% (RH), non-condensing		
14	Power Consumption	Basic: 1.4 W (12 VDC), 2.2 W (PoE); Max.: 3.3 W (12 VDC), 4.4 W (PoE) (H.265 + intelligence on + warm light intensity)		
15	Included	5x5 PVC mount Box of standard make		

Item 3: 8+2 Port GB PoE + GB Switch

1	Uplink Ports	2, 1000Mbps; Transmission Distance: 0-100m		
2	ESD	Air discharge: 8KV ; Contact discharge: 6KV		
3	Switch Capacity	20Gbps Full duplex		
4	PoE Ports	8, 1000Mbps; RJ45 ports; Max. 30W Output of Single PoE Port		
5	Network Protocol	IEEE802.3i/802.3u/802.3x/802.3af/802.3ab		
6	Network Ports	10		
7	MAC Address Table	2K		
8	PoE Standard	IEEE802.3af, IEEE802.3at		
9	Transmission Distance	0-100m/1000Mbps or Port 7-8 Max. 250m/10Mbps via Cat.5e or more under Extend mode		

	Power Budget	96W		
	PoE Feature	All ports support MDI/MDIX		
	Packet Forwarding Rate	1.488Mpps/port		
13	Forwarding Mode	Store-and-forward		
14	Power Source	Built-in Power Supply, Input: 100-240V AC, 50/60Hz		
15	Power Consumption	<5W		
16	Operating Temperature	-10°C ~ 50°C		
17	Surge Protection	Common mode/RJ45 port: 4KV Differential mode/RJ45 port: 2KV Common mode/Power board: 2KV Differential mode/Power board: 2KV		
18	Storage Temperature	-40°C ~ 70°C		

Item 4: Storage for Recording

1	Form factor	3.5" SATA Hard Drive		
2	Interface	SATA 6 Gbit/s		
3	Rotational speed	5400 rpm/ 5700rpm		
4	Storage Capacity	2 TB		
5	Buffer capacity	Up to 128 MB buffer		
6	Operational Period	24/7 operation		
7	Recording capacity	Supports up to 4 Video Cameras		
8	Performance	High reliability and enhanced real-time performance		
9	Cache Technology	Dynamic Cache Technology		
10	Disc Technology	Stable Platter Technology		
11	Compatibility	RoHS, Halogen Free		
12	Shock Sensor	Yes		
13	Max. data transfer speed (sustained MB/s Typ.)	184		
14	Load/Unload cycle	600,000		
15	Environmental Temperature (operating/non-operating)	0° to 70°C / -40° to 70°C		

Item 5: Display Unit

1	Screen size	48.2cm		
2	Native resolution	1400 x 900		
3	Aspect ratio	16:10		
4	Max. brightness	220cd/m ²		
5	Dynamic contrast ratio	500000:1		
6	Power consumption	15 Watts (max.)		
7	Color	16.7M		

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Item 9: Connec
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8	Viewing angle	H170/V160		
9	Wall Mount	Yes		

Item 6: CAT 6 Cable 100 Mtr. Box

1	Nominal Conductor Diameter	23 AWG		
2	Insulation	Polyethylene (HDPE)		
3	Pairing	Twisted into Two core		
4	Outer Sheath	PVC Sheath		
5	Colour of Sheath	Grey (RAL-7035)		
6	Approximate OD	5.8mm ± 0.1mm		
7	Characteristic Impedance	100 ±15Ω		
8	Rip Cord	Yes		
9	Resistance Unbalance	5% Max		
10	Conductor Resistance	93.5Ω/1000 Mtr@20°C Max		
11	NVP	69%		
12	Mutual Capacitance	5.6nf/100Mtr. Max		
13	Temperature Rating	-20 to +60°C F14		
14	Min Bending Radius	10x Jacket Dia		

Item 7: Factory crimped CAT 6 patch cord 1 meter

1	Connector	RJ45, 8P8C, 2 FORK 50μ'' Gold Plated Contacts		
2	Type	100% Factory Tested		
3	Assembly	Transparent Boot Cable Assemblies		
4	Safety Feature	LSZH Sheath		

Item 8: Rack & Accessories

1	Item Type Name	CCTV/DVR/NVR Cabinet Box		
2	Item Height	12 Centimeters		
3	Item Dimensions D x W x H	35D x 35W x 12H Centimeters		
4	Mounting Type	Wall Mount		
5	Enclosure Material	Glass, Iron		
6	Enclosed Item Type	network Wall Mount Surface Patch Panel		
7	Cable Type	CAT 6 Ethernet		
8	Compatible Devices	Switch, Hub, Server, Network Storage Device, Security Camera, Router		
9	Product or component type	4 port PDU		
10	Input Voltage	230V AC		
11	Output Voltage	230V AC		
12	Mounting location	Side		
13	Input Plug Type	IEC 60309 32 A 2P +E		
14	Input current limits	32 A		

Capacity	7360 VA		
Network frequency	50/60 Hz		
Outlet type and quantity	4 IEC 60320 C19		

Item 9: Connectors

1	Type	Cat6 unshielded RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors		
2	Housing	PC, UL94V-2, transparent brown color		
3	Contact Terminal	Copper Alloy		
4	Finished	50U" gold plating		
5	Use for	23-26AWG stranded wires or solid wires in Cat6, meet wiring scheme T568A/T568B		
6	Operating temperature	-40°C to +85°C		

Item 10: Power Backup (UPS)

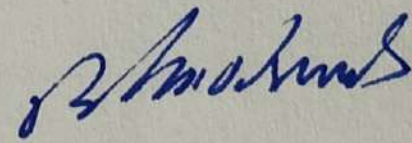
1	Capacity	600VA		
2	Input Voltage & Range	230V AC & 140V AC to 230V AC		
3	Input Frequency	50 Hz		
4	Output AC Voltage Regulation (Normal & Battery Mode)	230V AC & ±10%		
5	Output Frequency (Normal & Battery Mode)	50 Hz ± 1 Hz		
6	Protection	Full Protection, Overload Discharge and Overcharge Protection		
7	Battery	Type & Number Typical Recharge Time: 12 V / 7 Ah x 1 6 Hours (Upto 90% of full capacity)		
8	LED Color Indication	AC Mode: Green Lighting, Battery Mode: Green Flashing		

Item 11: Installation & Support

1	Coverage	Laying of cables, Installation of Camera, NVR, Switch, Rack, PDU, Jack Panel, Termination of IO & UTP connectors, Monitor, project commissioning, configuration, testing & Go-Live including 1-year comprehensive support. Any electrical connectivity, Terminal Pole / angle for installation of Camera as and where required.		
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2. FINANCIAL PROPOSAL

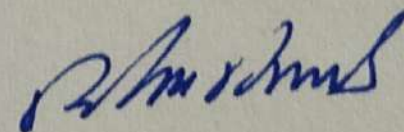
Item	Qty.	Rate Inclusive of all
NVR 8 Channel	1 UNIT	
Camera BULLET	1 UNIT	
Switch 8 PORT GB PoE	1 UNIT	
Surveillance HDD 2TB	1 UNIT	
Display LED Monitor 20"	1 UNIT	
UTP CAT 6 Cable Box - 100 mtr.	1 UNIT	
factory crimped CAT 6 patch cord 1 meter	1 UNIT	
2U Rack with accessories	1 UNIT	
Jack Panel 10 port loaded	1 UNIT	
RJ45 Connectors	1 UNIT	
Mount Box 30X (5x5)	1 UNIT	
4 Port PDU	1 UNIT	
600VA UPS	1 UNIT	
Laying of cables, Installation of Camera, NVR, Switch, Rack, PDU, Jack Panel, Termination of IO & UTP connectors, project commissioning, Pole / Angle as and where required, Electrical connection including all accessories as and where required, configuration, testing, Go-Live & Project Sign-off	1 UNIT	



Chairman
North Dum Dum Municipality

Date: 03.02.2026.

Chairman
North Dum Dum Municipality



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Memo No: NDDM//PH / 945/1(5)
Copy forwarded for information & necessary action to:

- 1) The vice Chairman
- 2) The Executive officer
- 3) The Finance officer
- 4) Estt Deptt. NDDM
- 5) NDDM Notice Board

