

No.ASCDCL/2023/444

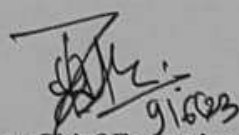
Date: 09/06/2023

NOTICE INVITING QUOTATION

Aurangabad Smart City Development Corporation Limited (ASCDCL) is inviting a quotation from registered IT Hardware suppliers to Supply, Installation and Commissioning the below mentioned components at Shivrushthi location in Kranti Chowk.

The interested vendors may submit their quotations to the ASCDCL office in sealed envelop before 16/05/2023 by 5.00 PM. ASCDCL reserves its right to accept and reject the quotations at any level of process.

Sr No	Particulars	Quantity	Rate per item	Final Amount (Inclusive Tax)
1	IP Bullet CCTV Cameras	32 Nos		
2	16 Channel NVR	2 Nos		
3	Armored CT 6 Cables	1500 Mt		
4	4U Rack	2 Nos		
5	6TB Hard Disk	2 Nos		
6	POE Switch	2 Nos		


Deputy Chief Executive Officer
Aurangabad Smart City Development
Corporation Limited (ASCDCL)

for

1. IP bullet CCTV cameras

Specification	Requirement
Image Sensor	1/2.7",1/2.8" progressive CMOS or better
Effective Pixels	1920 (H) x 1080 (V)
Minimum Illumination	0.005 lux@F1.6 (Color, 30 IRE) or 0.0005 lux@F1.6 (B/W, 30 IRE) or 0.001 Lux @(F1.0, AGC ON)
Shutter Speed	Auto/Manual, 1/3~1/100000s
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Lens	2.8mm or 3.6mm or better
DORI Distance	3.6mm-53.3m (Detect) 21.3m (Observe) 10.7m (Recognize) 5.3m (Identify) 2.8mm-37.3m (Detect) 14.9m (Observe) 7.5m (Recognize) 3.7m (Identify)
Gain Control (AGC)	Auto/Manual
Mount Type	M12
Close Focus Distance	2.8mm: 0.6m; 3.6mm: 1.1 m
Iris Type	Fixed
Max. Aperture	2.8mm: F1.6; 3.6mm: F1.6
Lens Type	Fixed-focal
Video Compression	H.265+/H.265/H.264+/H.264/H.264H; H.264B; MJPEG
Back Light Compensation	BLC / HLC / DWDR
Angle Of View	3.6mm: Pan 91° x Tilt 48° x Diagonal 109°; 2.8mm: Pan 110° x Tilt 59° x Diagonal 132°
Video Streaming	Main Stream: 1920 x 1080 (1 fps-25/30 fps) Sub stream: 704 x 576 (1 fps-25 fps) 704 x 480 (1 fps-30 fps)
Resolution	1080P (1920 x 1080); 1.3MP (1280x960); 720P (1280 x 720); D1 (704x576/704 x 480); VGA (640x480); CIF (352x288/352 x 240)
Motion detection	OFF/ON (4 areas, rectangular)
Privacy Mask	4 areas

ICR	Color/B/W
ROI	Yes (4 areas)
Bit Rate	H.264: 32 Kbps-6144 Kbps; H.265: 12 Kbps-6400 Kbps
Protocol	IPv4; IPV6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; DDNS; Multicast, ONVIF (Profile S); CGI; P2P; Genetec
Ethernet	RJ-45 (10/100Base-T)
Event Trigger	Motion detection, video tampering, network disconnection, IP conflict, illegal access
User Account	20 Users
Smart Phone	iPhone, iPad, Android Phone
Browser	IE /Chrome /Firefox
LED Distance	15 Mtr.
No. of LEDs	1
Edge Storage	FTP
Operating Temperature	-40°C~+60° C (-40°F~ +140° F) / Less than 95% RH
Power Source	12V DC/POE (802.3af)
Power Consumption	4.8W or max 6.5W
Weatherproof Standard	IP67
Dimension	162.6 mm x 70 mm (6.4" x 2.8") or 76.6 mm x 164.4 mm (3" x 6.5")
Casing	Metal + plastic
Weight	0.22 kg or less

2. Network Video Recorder:

Specification	Requirement
Processor	Dual-core embedded processor or Industrial-grade embedded processor
Operating System	Embedded LINUX
IP Camera Input	16 channel
Two-way Talk	1 channel Input, 1 channel Output, RCA
User Interface	GUI
Video Output	1 HDMI, 1 VGA
Compression	H.265+/H.265/H.264
Video Resolution	1920×1080, 1280x1024, 1280x720, 1024x768
Video Recording	Max 160Mbps Incoming, 8MP/6MP/5MP/4MP/3MP/1080P/720P/D1&etc.
Video Display Split	1/4/8/9/16
OSD	Camera title, Time, Camera lock, Motion detection, Recording
Bit Rate	16Kbps ~ 20Mbps Per Channel
Motion Detection	MD Zones: 396(22x18).
Video Loss	Supports
Camera Blank	Supports
Hard Disk	1 SATA III ports, up to 6TB
Trigger Events	Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips
Recording	Manual, Schedule (Regular (Continuous), MD, Stop
Search Mode	Time/Date, MD & Exact search (accurate to second)
Playback	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Backup Mode	USB Device/Network
Interface Ports	1 HDMI, 1 VGA, 2 USB Ports(1 Rear USB2.0, 1 Front USB2.0) or better
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Max User Account	128 users or better
Ethernet	1 RJ-45 port (10/100/1000Mbps)
Protocols	HTTP/HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, NTP, DHCP, DNS, IP Filter, DDNS, IP Search,

	ONVIF 2.4, SDK, CGI
Power Supply	DC12V/2A
Power Consumption	<10W
Working Temp	-10~+55°C/10~90% RH / 86~106kpa

3. NVR Outdoor Rack:

Specification	Requirement
DVR/NVR walls Mount is specially designed to safeguard our DVRs/NVRs from Theft.	Required as described in specification
Basic frame:	CRCA (MS SHEET) 0.8mm thickness.
Construction:	Welded.
Front plain door with key lock and gasket.	Required as described in specification
Cooling fans provision on Left and Right side.	Required as described in specification
Plain top with extension on 3 sides (LH, RH & Front).	Required as described in specification
Bottom with 2nos. Cable Entry/Exit cut-outs with rubber protection.	Required as described in specification
Wall/Pole mount with brackets.	Required as described in specification
IP55 Rated (Dust proof, Rust proof & Rain water protected).	Required as described in specification
Standard Finish:	Power Coated RAL 7035 PP (Light Grey).

4. Armored Cat 6 cable:

Specification	Requirement
Conduct Type	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	24 AWG
Insulation	Polyethylene (HDPE)
No. of Pair	4, Each pair Twisted
Pairing	Twisted into Two core
Outer Sheath	LDPE
Inner Sheath	PVC

Approximate OD	7.0 ± 0.50mm
Rip cord	Yes
Cross Filler	HDPE
Sequential Marking	At Every Meter
Resistance Unbalance	5% Max
Conductor Resistance	93.50/1000 Mtr@20°C Max
Mutual Capacitance	5.6nf/100Mtr. Max
Packing	305 Mtrs
Temperature Rating	-20 to +60°C
Installation Temperature	0 to 50°C
Storage Temperature	-20 to +75°C
NVP	69%
Impedance	100+15% Q
Worst Cable Skew	45ns/ 100mtr

5. POE Switch:

Specification	Requirement
Network Port	RJ45,SFP and POE ports
Network Standard	IEEE 802.31 10BASE-T IEEE 802.3xFlowControl IEEE 802.3u 100BASE-TX/IEEE 802.3ab 1000 Base-T IEEE 802.3af/at/bt Power over Ethernet
Transmission Rate	2000Mbps Full Duplex; 10 or 100 or 1000Mbps Half Duplex
Transmission Distance	1~100m
MAC Address Table	8K
Network Latency	(10 to 1000Mbps): ≤16μs (use the 64byte package size)

Frame Filter & Transmission Rate	14800pps the most for 10Mbps port, 148800pps the most for 100Mbps port, 1488000pps the most for 1000Mbps port
Power Budget	125W or 300W
Power Input	AC 100~240V, Total ≤300W
Power Output	POE 1~14 Port: 1/2 (+52V), 3/6(GND) POE 15~16 Port:1245(+53V), 3678(GND) compatible 1/2(+52V), 3/6(GND)<60W
Lightning Protection	6KV
Electricity Protection	12KV
Operating Temperature	-30°C ~ 60°C
Working Humidity	10%~90% (Non-condensing)
Storage Temperature	-40°C ~85°C
Storage Humidity	5%~95% (Non-condensing)

6. Hard Disk Specification:

Specification	Requirement
Basic specification	
Form factor	3,5-inch
Interface	6.0 Gbit/s or 8GB
Number of cameras supported	up to 64
Drive bays supported	1 to 8 or Unlimited
Rotational Vibration (RV) Sensors	yes (HDWT140UZSVA)
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen Free	No
Shock Sensor	yes
Recording Technology	CMR: HDWT140UZSVA, HDWV110UZSVA SMR: HDWT740UZSVA, HDWT720UZSVA, HDWT860UZSVA, HDWTB40UZSVA
Performance	
Rotational speed	5400 rpm (2 TB- 6 TB) 5700 rpm (1 TB)
Max. data transfer speed (sustained)	153 MB/s Typ. (1 TB CMR) 157 MB/s Typ. (4 TB CMR) 184MB/s Typ. (2 TB, 4 TB SMR, 6 TB) or UPTO 255 MB/s
Buffer size	256 MB (6 TB)

	128 MB (2 TB-4TB) 64 MB (1 TB)
Average latency	5.56 ms
Native Command Queuing (NCQ)	supported
Reliability	
Workloads	110 TB/year (4 TB CMR) 180 TB/year (1 TB, 2 TB, 4 TB SMR, 6 TB)
MTTF	1.000.000 hours or 2,000,000 hr
Unrecoverable error rate	1 per 10E14 bits read or 1 per 10E15
24/7 operation	Yes
Load/Unload Cycle	600.000 (2 TB-6TB) 300.000 (1 TB)
Power Management	
Supply voltage	5V DC \pm 5%; 12V DC #10%
Box Content	
Box Content	3.5-inch internal HDD-5300 Surveillance Hard Drive
Physical	
Weight (approx.)	720 g max. (4 TB CMR) 680 g max. (6 TB SMR) 650 g max. (4 TB SMR) 450 g max. (1 TB CMR) 440 g max. (2 TB SMR)
Environmental	
Acoustics (idle mode)	26 dB typ. (4 TB CRM) 24 dB typ (6 TB SRM) 22 dB typ. (4 TB SMR) 21 dB typ (2 TB SMR) 19 dB typ. (1 TB CRM)
Shock (non-operating)	6 TB, 4 TB CMR 300 G/2ms duration 1 TB, 2 TB, 4TB SMR: 350 G/2ms duration
Shock (operating)	70 G/2ms duration
Vibration (non-operating)	29.4 m/s ² (3.0 G) (5 to 500 Hz) (6 TB, 4TB SMR, 2 TB) 49.0 m/s ² (3.0 G) (5 to 500 Hz) (4 TB CMR) 10.2 m/s ² (1.04 G) (2 to 200 Hz) (1 TB)
Vibration (operating)	4 TB CMR: 0.75 G (5 to 300 Hz) 0.25 G (300 to 500 Hz) 2 TB, 4TB SMR, 6TB: 0.50 G (5 to 350 Hz) 0.25 G (350 to 500 Hz)

	1 TB: 0.67 G (5 to 500 Hz)
Power Management	
Temperature (operating/non-operating)	0-70°C/-40-70° C (2TB-6TB) 0-65°C/-40-70°C (1 TB)
Consumption-Active Idle	4.00 W typ. (4 TB CMR) 3.00 W typ. (1 TB CMR) 2.81 W typ. (6 TB SMR) 2.36 W typ. (4 TB SMR) 2.33 W typ. (4 TB SMR) 2.08 W typ. (2 TB SMR)