

## West Bengal Electronics Industry Development Corporation Limited

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### TECH-CORRIGENDUM: III

**Notice Inviting e-Tender No. WEBEL/EOT/COM/21-22/00043 Dated: 24.11.2021**

**FOR. Supply of CCTV including 90days recording backup with NVR at National University of Juridicial Science.**

#### Revised Spec

##### CAMERA Outdoor DOME (Type-I)

Sl. No.	<u>Technical Specification :</u>			
OFFERED MAKE & MODEL:			Changes as per Corrigendum	Changes
1	Image Sensor	1/2.7" Progressive Scan CMOS		
2	Min. illumination	Color: 0.003Lux (AGC On), 0 Lux with IR	0.008 Lux@F1.6 or better	
3	Preferred recording Resolution	5MP (2592×1944) @ 25fps	<b>5MP (2592×1944) @ 20fps</b> or better	
4	Day & Night	IR Cut Filter		
5	Shutter speed	1/3 s to 1/100,000 s		
6	Digital Noise Reduction	3D DNR		
7	WDR	120dB True WDR		
8	Lens	2.8mm / 4mm (as per site requirement)	2.8 mm / 3.6 mm or better as per site requirement	
9	IR range	min. 40m IR or higher	min. 30m IR or higher	
10	Streaming Type	Should Support Four streams	Should Support at least Dual Stream or better	
		Main : 1fps~25fps(2592×1944, 2688×1520, 1920×1080)	Main : 1fps~ <b>25fps(2592×1944, 2688×1520, 1920×1080)</b> or better	
		Sub : 1~25fps (640×480, 640×360)	Sub : 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) or better	1fps~25fps (640×480, 640×360) or better

		Third: 1~10fps (1920x1080, 1280x720, 640x480, 640x360)	deleted	
		Fourth: 1~10fps (1280x720, 640x480, 640x360)	deleted	
11	Video Compression	H.265,H.264, H.264+,H.265+		
12	Bit Rate Control	CBR/VBR		
13	Scalable Video Coding (SVC)	H.264 and H.265 encoding		
14	Audio Compression	G.711ulaw,G.711alaw, G.722.1, G.726, MP2L2, PCM, MP3, AAC	deleted	
15	Environment Noise Filtering	Required		
16	Image Enhancement	BLC, HLC, 3D DNR, 120dB WDR, ROI (5 fixed regions for main stream and sub-stream), Auto-White Balance		
17	Image settings	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser		
18	SNR	≥ 52 dB		
19	Day/Night Switch	Day, Night, Auto, Schedule		
20	Image Parameters Switch	Yes		
21	Target Cropping	Yes		
22	Network Protocol	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, ARP, SNMP	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, SSL/TLS, PPPoE, ARP	
23	API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), SDK		
24	Simultaneous Live View	6 channel		
25	User Host	32 users. 3 user levels: administrator, operator and user	at least 20 users. 3 user levels: administrator, operator and user	
26	Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS.		
27	Edge base Recording & Network storage	Built-in Micro SD/SDHC/SDXC slot, (256GB or better), NAS (NFS, SMB/CIFS), auto network replenishment (ANR)		
28	Preferable analytics	Line crossing detection, intrusion detection, Motion detection (human and vehicle targets classification), Unattended baggage	Line crossing detection, intrusion detection, Motion detection, video tampering, Scene change detection, audio exception detection, Face capture	

		detection, video tampering, Object removal detection, Scene change detection, audio exception detection, Face capture		
29	Event Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning		
30	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
31	Audio interface	1-in/ 1-out	deleted	
32	Alarm I/O	1-in/1-out	deleted	
33	Power Output	12 VDC, max.		
34	General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, pixel counter		
35	Power Supply	DC12V, PoE (802.3at /af)		
36	Operating Conditions	-30° C ~ + 60° C		
37	Ingress Protection	IP67 Ingress Protection, IK10		
38	Certifications	CE/ FCC/UL/BIS		
Camera & NVR should be from same OEM for smooth integration.				

### CAMERA Outdoor Bullet (Type-I)

Sl. No.	Technical Specification :			
OFFERED MAKE & MODEL:			Changes as per Corrigendum	Changes
1	Image Sensor	1/2.7" Progressive Scan CMOS		
2	Min. illumination	Color: 0.003Lux (AGC On), 0 Lux with IR	0.008 Lux@F1.6 or better	
3	Preferred recording Resolution	5MP (2592x1944) @ 25fps	<b>5MP (2592x1944) @ 20fps</b> or better	
4	Day & Night	IR Cut Filter		
5	Shutter speed	1/3 s to 1/100,000 s		
6	Digital Noise Reduction	3D DNR		
7	WDR	120dB True WDR		

8	Lens	4mm/6mm/12mm (as per site requirement)	2.7-13.5mm motorized lens or better (as per site requirement)	if we've planned to use
9	IR range	min. 90m IR or higher		2.7mm~13.5 mm varifocal lens, then please make IR range 60m or higher.
10	Streaming Type	Should Support Four streams	Should Support at least Dual Stream or better	
		Main : 1fps~25fps(2592x1944, 2688x1520, 1920x1080)		
		Sub : 1~25fps (640x480, 640 x 360)	Sub : 704 x 576 (1 fps-25 fps) 704 x 480 (1 fps-30 fps) or better	1fps~25fps (640x480, 640x360) or better
		Third: 1~10fps (1920x1080, 1280x720, 640x480, 640x360)	deleted	
		Fourth: 1~10fps (1280x720, 640x480, 640x360)	deleted	
11	Video Compression	H.265, H.264, H.264+, H.265+		
12	Bit Rate Control	CBR/VBR		
13	Scalable Video Coding (SVC)	H.264 and H.265 encoding		
14	Audio Compression	G.711ulaw,G.711alaw, G.722.1, G.726, MP2L2, PCM, MP3, AAC		
15	Environment Noise Filtering	Required		
16	Image Enhancement	BLC, HLC, 3D DNR, 120dB WDR, ROI (5 fixed regions for main stream and sub-stream), Auto-White Balance		
17	Image settings	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser		
18	SNR	≥ 52 dB		
19	Day/Night Switch	Day, Night, Auto, Schedule		
20	Image Parameters Switch	Yes		
21	Target Cropping	Yes		
22	Network Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6,	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, SSL/TLS, PPPoE, ARP	

		UDP, Bonjour, SSL/TLS, PPPoE, ARP, SNMP		
23	API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), SDK		
24	Simultaneous Live View	6 channel		
25	User Host	32 users. 3 user levels: administrator, operator and user	at least 20 users. 3 user levels: administrator, operator and user	
26	Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS		
27	Edge base Recording & Network storage	Built-in Micro SD/SDHC/SDXC slot, (256GB or better), NAS (NFS, SMB/CIFS), auto network replenishment (ANR)		
28	Preferable analytics	Line crossing detection, intrusion detection, Motion detection (human and vehicle targets classification), Unattended baggage detection, video tampering, Object removal detection, Scene change detection, audio exception detection, Face capture	Line crossing detection, intrusion detection, Motion detection, video tampering, Scene change detection, audio exception detection, Face capture	
29	Event Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning		
30	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
31	Audio interface	1-in/ 1-out		
32	Alarm I/O	2-in/2-out	1-in/1-out or netter	
33	Power Output	12 VDC		
34	General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, pixel counter		
35	Power Supply	DC12V, PoE (802.3at /af)		
36	Operating Conditions	-30° C ~ + 60° C		
37	Ingress Protection	IP67 Ingress Protection		
38	Certifications	CE, FCC, UL, BIS		
Camera & NVR should be from same OEM for smooth integration.				

**CAMERA Indoor (Library Reading Hall) with 180°  
Panoramic View**

Sl. No.	Technical Specification :			
OFFERED MAKE & MODEL:			Changes as per Corrigendum	Changes
1	Image Sensor	1/2.7" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS or better	
2	Min. illumination	Color: 0.006Lux (AGC On), 0 Lux with IR	Color: 0.003Lux (AGC On), 0 Lux with IR	0.01 Lux@F 1.6 or better
3	Preferred recording Resolution	1920x1080 @ 25fps	1920x1080 @ 20fps or better	
4	Day & Night	IR Cut Filter		
5	Shutter speed	1 s - 1/100,000 s		
6	Digital Noise Reduction	3D DNR		
7	WDR	120dB True WDR		
8	Lens	2.8mm to 12mm		
9	IR range	25m to 30m		
10	Streaming Type	Should Support Three streams		
		Main : 25fps (1920x1080, 1280x960, 1280x720)		
		Sub : : 25fps (704x576, 640x480)		
		Third: 25fps (1920x1080, 1280x960, 1280x720, 704x576, 640x480)		
11	Video Compression	H.265,H.264, H.264+,H.265+		
12	Bit Rate Control	CBR/VBR		
13	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC	G.711a/G.711Mu/AAC/G.726	
14	Environment Noise Filtering	Required		
15	Image Enhancement	BLC, WDR, 3D DNR, EIS	BLC, WDR, 3D DNR	
16	Image settings	Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser		
17	Day/Night Switch	Day, Night, Auto, Schedule		
18	Network Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP		

19	API	Open Network Video Interface (PROFILE S, PROFILE G)		
20	Simultaneous Live View	20 channel		
21	User Host	32 Users. 3 user levels: administrator, operator and user	at least 20 Users. 3 user levels: administrator, operator and user	
22	Edge base Recording & Network storage	Built-in Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR		
23	Preferable analytics	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, Face detection		
24	Ethernet Port	1 x RJ45 10M/100M Ethernet port		
25	Audio interface	1-in/ 1-out		
26	Alarm I/O	2-in/2-out	2-in/1-out or better	
27	Power Output	12 VDC, max.		
28	Power Supply	DC12V, Hi-PoE		
29	Operating Conditions	-30° C ~ + 60° C		
30	Ingress Protection	IP67 Ingress Protection, IK10		
31	Certifications	CE/ FCC/UL/BIS		
Camera & NVR should be from same OEM for smooth integration.				

32 Channel NVR with 16 SATA HDD				
Sl. No.	Technical Specification :			
OFFERED MAKE & MODEL:			<b>Changes as per Corrigendum</b>	<b>Changes</b>
1	Operating System	Embedded LINUX		
2	IP Camera Input	32 channels		
3	Two-way Talk	Should Support		
4	Audio output	1-ch		
5	Display Interface	2-HDMI, 2-VGA output for viewing	2-HDMI, 1-VGA output for viewing or better	
6	Display Resolution	HDMI-1 (4K) : 3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768		

		VGA-1 : 2560×1440, 1920×1080, 1280×1024, 1280×720, 1024×768	VGA-1: 1920×1080 or more	
		HDMI-1 & VGA-2 : 1920×1080, 1280×1024, 1280×720, 1024×768	HDMI-1 : 1920×1080 or more	Point may be deleted
7	Network Throughput	Incoming Bandwidth: 320Mbps Outgoing Bandwidth: 256Mbps		
8	Support multiple brands	Should Support Multi- brand (Onvif) network cameras		
9	Recording Video Compression	H.265+, H.265, H.264+, H.264		
10	Recording Resolution	12MP, 8MP, 6MP, 4MP, 3MP, 1080P, 720P, 4CIF, D1		
11	User Interface	GUI		
12	Motion Detection	Should Support		
13	Alarm In/ out	It should have 16-Ch In and 8-Ch Out		It should have 16-Ch Input and 4-Ch Output or better
14	Sync Playback	1/4/9/16		
15	Smart Phone	It should support remote monitoring over iPhone, iPad, Android Mobile.		
16	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart VCA search		
17	Backup Mode	USB Device/Network		
18	RAID	Should support RAID0, RAID1, RAID5, RAID6, RAID10		
19	Hard Disk	16-SATA interfaces for HDD. HDD capacity : Up to 10 TB capacity for each disk	8TB or better per SATA interfaces for HDD. HDD capacity : Up to 10 TB capacity for each disk	
20	eSATA	1-eSATA interface		
21	Network Ethernet	2x RJ-45 ports (10/100/1000Mbps)		
22	USB	3 USB ports (2x USB2.0; 1x USB3.0)		
23	Additional Interfaces	1 RS-485, 1 RS-232		



24	Redundant Power Supply	AC 100V~240V, 50/60 Hz		
25	Power Consumption	<50W (without HDD)		
26	Working Environment	0°C~+55°C / 10%~90%RH		
Camera & NVR should be from same OEM for smooth integration.				

THE ABOVE CORRIGENDUM IS A PART OF ORIGINAL TENDER DOCUMENT