

WEBEL TECHNOLOGY LIMITED

CORRIGENDUM – I

TENDER NO. WTL/SB/CCTV/23-24/050 DATED 09.01.2024

Sl. No.	Section No.	Page /Sl. No.	Existing Clause Description	Clarification / Revised clause
1	SECTION-I	Page No. 33, Sl. No. 32	CERTIFICATION REQUIRED: ISO 9001, ISO 14001, OHAS 18001, CE	CERTIFICATION REQUIRED: ISO 9001, ISO 14001, OHAS18001 / ISO 45001, CE
2	SECTION-B	Page No. 6, Sl. No. 8	The Bidder must have own Support Service Center with manpower in Kolkata so that any call reported is attended within the response time. Details address with contact details for Support Service Center at Kolkata to be submitted.	The Bidder must have own Support Service Center with manpower in Kolkata so that any call reported is attended within the response time. Details address with contact details for Support Service Center at Kolkata to be submitted. OEM must also ensure the presence of service centers across the state of West Bengal.
3	Revised Section – I (TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT) is enclosed			

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SECTION - I

TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT

(Tender No. WTL/SB/CCTV/23-24/050)

1. Bidder should submit all relevant data sheet/brochure of the quoted items and should also available in respective OEM's official website.
2. Bidder should indicate items mentioned in the OEM data sheet / brochure by marketing the serial no. as mentioned in minimum specification in the RFP.
3. Bidder should quote make, model and part no of the quoted item.

Minimum Specification of 2 Megapixel Fixed Lens Bullet Camera

Qty.	192
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	Image Sensor: 1/2.7" Progressive Scan CMOS		
2	Min. illumination: Color: 0.005Lux (AGC On), 0 Lux with IR		
3	Image Resolution: 2MP		
4	Day & Night: IR Cut Filter		
5	Digital Noise Reduction: 3D DNR		
6	WDR: 120 DB		
7	Lens: Fixed Lens: 4mm/ 6mm (as per site requirement)		
8	IR range: min. 40m IR		
9	Streaming Type: Should Support Three stream		
10	Video Compression: H.265, H.264		
11	Image Enhancement: BLC, HLC, 3D DNR, Auto-White Balance, Privacy Mask		
12	Ethernet Port: 1 x RJ45 10M/100M Ethernet port		
13	Network Protocol: 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		
14	Preferable analytics: Motion detection, Line crossing, intrusion detection, Video tampering detection		
15	Power Supply: DC12V, PoE		
16	Operating Conditions: -30° C ~ + 60° C		
17	Ingress Protection: IP67		

Minimum Specification of 2 Megapixel Fixed Lens Dome Camera

WEBEL TECHNOLOGY LIMITED

Qty.	192
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Image Sensor: 1/2.7" Progressive Scan CMOS		
2	Min. illumination: Color: 0.005Lux (AGC On), 0 Lux with IR		
3	Image Resolution: 2MP		
4	Day & Night: IR Cut Filter		
5	Digital Noise Reduction: 3D DNR		
6	WDR: 120 DB		
7	Lens: Fixed Lens: 4mm/ 6mm (as per site requirement)		
8	IR range: min. 40m IR		
9	Streaming Type: Should Support Three stream		
10	Video Compression: H.265, H.264		
11	Image Enhancement: BLC, HLC, 3D DNR, Auto-White Balance, Privacy Mask		
12	Ethernet Port: 1 x RJ45 10M/100M Ethernet port		
13	Network Protocol: 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		
14	Preferable analytics: Motion detection, Line crossing, intrusion detection, Video tampering detection l		
15	Power Supply: DC12V, PoE		
16	Operating Conditions: -30° C ~ + 60° C		
17	Ingress Protection: IP67		

Minimum Specification of 8 CHANNEL H.265 NETWORK VIDEO RECORDER

Qty.	48
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Operating system: Embedded Linux		

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2	IP video input: 8-channel IP Video input		
3	Two-way audio: should support		
4	Incoming bandwidth: Min. 80 Mbps		
5	Outgoing bandwidth: Min. 150 Mbps		
6	Display interface: min. 1 x HDMI, min. 1 x VGA		
7	HDMI-1 / VGA-1 : output resolution: 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
8	Audio output: 1-ch, RCA (2.0 Vp-p , 1 KΩ)		
9	Split-Screen display: it should support multi split-screen live view on connected monitor		
10	Recording resolution: 12MP / 8 MP/ 6MP / 5MP / 4MP / 3MP/ 1080p / UXGA / 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
11	Decoding format: H.265/H.265+/H.264+/H.264/MPEG4		
12	Facial Detection and Analytics: Face picture comparison, human face capture, face picture search		
13	Facial Recognition: Yes		
14	Motion Detection 2.0: All channels, 4 MP (when enhanced SVC mode is enabled, up to 8 MP) video analysis for human and vehicle recognition to reduce false alarm		
15	Perimeter Protection: video analysis for human and vehicle recognition to reduce false alarm		
16	Synchronous playback: 8-channel		
17	Smart Search option: yes1		
18	Network Protocol: TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS		
19	SATA interface for HDD: should support 2 x SATA interfaces		
20	HDD Capacity: 10 TB capacity for each HDD or better		
21	Network interface: 1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces		
22	USB interface: atleast 3 × USB 2.0		
23	Alarm in/out: atleast 4 input / 1 output		
24	Power supply: 12V DC		
25	Consumption (without hard disk): ≤15 W2		
26	Working temperature: -10 to +55°C (14 to 131°F)		
27	Working humidity: 10 to 90 %2		
28	Certification: CE, FCC, UL		

Minimum Specification of 8 Port Fast Ethernet PoE switch

Qty.	48
Make	
Model	

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Part No.	
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Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	Physical Port: 10 -port 10/100BASE -TX Fast Ethernet RJ45 copper and 8 -port IEEE 802.3at/af PoE+ Injector (Port 1 to Port 8)		
2	<p>Power Over Ethernet: Complies with IEEE 802.3at Power+ over over Ethernet end-span PSE</p> <p>Supports PoE power up to 30 watts for each PoE port</p> <p>Each port supports 48~55V DC power to PoE powered device</p> <p>150 -watt PoE budget</p> <p>Auto detects powered device (PD)</p> <p>Circuit protection prevents power interference between ports</p> <p>Remote power feeding up to 100m in standard mode with 250m in extend mode</p> <p>PoE Power Output: Per port 55V DC, 540mA, Max 30 Watts</p> <p>Power PIN Assignment: 1/2(+), 3/6(+)</p> <p>Max. no. of Class II PDs : 8</p> <p>Max. no. of Class III PDs : 8</p> <p>Max. no. of Class IV PDs : 5</p>		
3	Housing: Rack Mount		
4	<p>Switching: Switching Fabric: 2 Gbps Non-Blocking</p> <p>Switch Throughput @64bytes: 1.48 Mpps@64 bytes</p>		
5	MAC address table: 2K entries, automatic source address learning and aging		
6	Maximum Frame Size: 1522 Bytes		
7	Flow Control: IEEE 802.3x pause frame for full-duplex		
8	DIP Switch: (VLAN/Normal/Extended) Selectable Operational Mode		
9	Enclosure: Metal		
10	MTBF (Mean Time Between Failure): 21 years		
11	Power Requirements: AC 100-140V, 50/60 Hz Inbuilt SMPS type Power supply, should restart automatically after power interruption.		
12	Power Consumption: System On: Max 2.4 Watt/8.1 BTU		

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13	Dissipation: Ethernet Full Loading: Max. 5 Watts PoE Full Loading: Max 150 Watts		
14	ESD Protection: Contact Discharge of 3000V DC Air Discharge of 3000V DC		
15	Thermal Fan: Should have Fan-less design		
16	Standard Compliance: IEEE 802.3 10BASE -T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af Power Over Ethernet IEEE 802.3at Power Over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE)		
17	Environment Parameters: Operating Temperature: -10°C ~ 50°C Operating Relative Humidity:- 10% ~ 95% (Non-condensing) Storage Temperature: -20°C ~ 70°C Storage Relative Humidity:- 5% ~ 95% (Non-condensing)		
18	Regulatory Compliance: FCC Part 15 Class A, CE		
19	Guaranteed Protection for a Smooth Operation: The switch should protect against the ESD 3000V surge to improve product stability and also protects users' networks from devastating ESD attacks, making sure the flow of operation doesn't affect		
20	PoE Power and Ethernet Data Transmission Distance Extension: Switch should have built-in solid DIP switch to provide "Standard" and "Extend" operation modes. It should operate on a per-port basis at 10Mbps Duplex operation but can support 30-watt PoE power output over a distance support upto 250 meters overcoming the 100 meters limit on Ethernet UTP cable. The feature riched technology should provide an additional solution for 802.3af/at PoE distance extension, thus saving the cost of Fiber Optic cable installation.		
21	Physical Features: 8-Port PoE, 150Watt PoE Budget 2 # 10/100 Mbps uplink ports Can extend distance support of up to 250 meters in the extended mode 30-watt power output at speed of 10Mbps Should have compact metal design with inbuilt power supply and universal power cord		

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Minimum Specification of UPS

Qty.	48
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	UPS TYPE: 1 KVA (FLOOR MODEL WITH inbuilt GALVANIC ISOLATION)		
2	UPS capacity: 1 kVA /800 W		
3	Input Phase: Single Phase - 230V AC		
4	Input Voltage Range: 160 V -300 V		
5	Input Power Factor: 0.99		
6	Input Inbuilt Isolation: Required at input side		
7	Output Voltage: 220/230/240 VAC +/- 1 %		
8	Output Frequency: 50 Hz +/- .1 Hz		
9	Output Synchronization Range: 47.5 HZ / 52.5 HZ		
10	Output Voltage Distort: <3% (Linear Load) & < 5% (Non Linear load)		
11	Output Waveform: Pure Sine Wave		
12	Efficiency (AC To AC): Upto 90%		
13	Eco Mode Efficiency: Upto 97%		
14	Power Factor: 0.8		
15	Required VAH: 2700VAH		
16	Battery Type: Sealed Lead Acid Maintenance Free		
17	DC Voltage: 36V		
18	Converter Mode: should be available		
19	Bypass Parmeter Configurable: should be available		
20	Over Voltage Cut Off Device: Should be Inbuilt		
21	Fan Speed Control: Should be load dependant		
22	ANEN 2 Pole Battery terminal: To ensure exact intertion of the battery terminal polarity		
23	Eco Mode: Should be available		
24	Auto Restart: UPS Should start automaticaly once main power resumes at input , even after after full battery discharge		
25	Operating Temperature: 0 - 40°C Continuous		
26	Display And Indication: LCD Display		
27	Battery Terminal: 2 pole connector with inbuilt feature of correct phase connectivity		

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28	Communication Port: RS 232 and SNMP and USB Port, Email intimation of UPS major conditions to be send to at least 4 or more email ids. Desirable (Should be able to switch OFF after a certain duration after a certain duration after Mains failure)		
29	Safety: EN/IEC 62040-1		
30	EMI / EMC: EN/IEC 62040-2		
31	Performance: EN/IEC 62040-3		
32	CERTIFICATION REQUIRED: ISO 9001, ISO 14001, OHAS18001 / ISO 45001, CE		
33	Manufactures should have service centers in districts of WB		

Specification of Battery

Qty.	144
Make	
Model	
Part No.	

Bidder to give technical details of 12Volt , 45 Amp Hour Battery (sealed maintenance free , Lead acid)

Minimum Specification of Cable

Qty.	Power Cable : 2400 mtr, CAT 6 UTP Cable: 70 Boxes, PVC cables 21350 Mtrs for outdoor & 21350 mtrs for indoor
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	CAT -6 UTP 4 Pair cable high quality, Compatible with PoE Switches/ PoE NVR and Injector, compatible with all Network IP Camera, TIA/EIA and ISO Category 6		
2	Cat 6 Cables (Molex / Tyco) with PVC casing, ¾" PVC Medium (MMS) Conduit pipe of best quality & ISI approved, Approved Brand for Conduit Pipe: AKG/PrecisionBEC/Circle Arc)		
3	Cat 6 Cables (Molex / Tyco) with GI Casing		
4	Power cables ,(2 Core, 1.50 Sq mm with Copper strands only.ISI approved. ¾" PVC Medium (MMS) Conduit pipe of best quality & ISI approved Approved Brand for cable: Finolex/Digilink/Polycab/RR Kabel/Poliplast.		

Minimum Specification of Router

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Qty.	48
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Usage Scenario: Depending on availability of Connection (Telephone Line, Broad band, GSM Service Provider like reliance, Vodofone, Airtel etc), both DSL and Dongle based interfacing capability to be present in router		
2	Connection Setup Responsibility: Vendor to interact with appropriate service provider to obtain Internet connectivity at Site , and also ensure its regular upkeep and maintenance . In case on disconnect to take up with ISP and restore connection at the earliest.		
3	Power Startup: Router and Dongle to automatically ensure internet connectivity after power interruption		
4	Device Interfaces: <ul style="list-style-type: none"> • 10/100/1000 Gigabit Ethernet WAN port • 802.11 ac/n/g/b Wireless LAN • Four 10/100 Fast Ethernet LAN ports • RJ-11 ADSL port 		
5	WLAN Specifications: <ul style="list-style-type: none"> • 802.11 n/g/b, up to 300 Mbps • 802.11 ac/a, up to 433 Mbps • Wi-Fi Protected Setup (WPS) • Multiple SSIDs • Automatic rate adapting • WAN scheduling • Auto channel selection • WMM support • 64-bit & 128-bit WEP • WPA-PSK & WPA2-PSK • MAC address filtering 		
6	Management: <ul style="list-style-type: none"> Web Based Configuration(HTTP), Remote management, Telnet management, Command Line Interface, SSL modes SNMP modes Web Based Firmware Upgrade, Diagnostic Tools 		
7	Security:		

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	NAT Firewall, SPI Firewall, MAC / IP / Packet / Application / URL Filtering, Denial of Service(DoS), SYN Flooding, Ping of Death		
8	Port Forwarding: Virtual Server, DMZ, ACL(Access Control List)		
9	VPN Pass-Through: PPTP, L2TP, IPSec Pass-through		
10	Advanced Features: Dynamic Host Configuration Protocol (DHCP), DHCP relay; Network Address Translation (NAT); Static Routing, DNS Relay, DDNS,		
11	System Requirements: Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ , Windows 7 or Windows 8, MAC® OS, NetWare®, UNIX® or Linux.		
12	Environment: Operating Temperature: 0°C~40°C (32°F~104°F) Operating Humidity: 10%~90% non-condensing		

Minimum Specification of GSM Dongle

Qty.	48
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Communication System: LTE/DC-HSPA + /HSPA + /HSPA/UMTS/EDGE/GPRS/GSM		
2	Speed: FDD LTE Cat4: 150/50 Mbps @20 M BW HSPA+ 42/5.76, 21/5.76 Mbps HSPA: 14/5.76, 7.2/5.76 Mbps		
3	Battery: USB power supply		
4	MICROSD Card Slot: Yes		
5	External Antenna Interface: TS-5		
6	Dimension: 30*94*14 mm		
7	Receive Diversity: All the LTE and 3G bands		
8	OS compatibility: Windows XP SP3, Windows Vista SP1/SP2, Windows 7, Windows 8, Windows 8.1 (does not support Windows RT) Mac OS X 10.6, 10.7 and 10.8 with latest upgrades		

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Minimum Specification of Display

Qty.	48
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	18.5 inch LCD monitor		
2	Power: AC input voltage/frequency/current : 100 to 240 VAC/50 Hz \pm 3 Hz/1.5 A (typical)		
3	Wall mounting accessories		

Minimum Specification of Accessories

Qty.	48 lot
Make	
Model	
Part No.	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	Patch Cord 2 meter		
2	MCB , Vendor to ensure that each power connection to be individually protected through MCB, Havells make or better		
3	MCB Box, Havells make or better for mounting 4 MCB		
4	Housing for outdoor camera		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____