WEBEL TECHNOLOGY LIMITED

CORRIGENDUM – VI

TENDER NO. WTL/WB-CCW/SG/CRE/23-24/074 dated 28.2.2024

Sl. No	Section	Clause No. / Name	Page No.	Existing Description	To be Read As
1.	Section – H	Bill of Material	Corrigendum – IV	Bill of Material for Police Commissionerates and Police Districts	Modified. Revised Section – H enclosed
2.	Section – I	Technical Specifications	Corrigendum – IV	Technical Specification Compliance Statement for Police Commissionerates and Police Districts	Modified. Revised Section – I enclosed

WEBEL TECHNOLOGY LIMITED

SECTION – H (Revised)

Supply, Installation and Commissioning of Control Room Equipment in six Police Commissionerates and 28 Police Districts under State Grid Project of West Bengal Police

BILL OF MATERIAL

Sl. No	Item Description	Qty	Unit
Existing CCTV Camera Surveillance For Police Commissionerates (Approx 200 Cameras)			
1.	32 Channel NVR	108	Nos
2.	55''LED TV	108	Nos
3.	24 Port L2 Managed Switch	24	Nos
4.	24 Port SFP Switch	12	Nos
5.	Media Converter	6	Nos
6.	20Km SFP Module	6	Nos
7.	80Km SFP Module	6	Nos
8.	PON Module	6	Nos
9.	4 Port OLT	6	Nos
10.	ONU	6	Nos
11.	CAT6 Cable	6	Nos
12.	HDMI Cable	6	Nos
13.	Extension USB Cable	6	Nos
14.	27u Network Rack	6	Nos
15.	Wireless Keyboard Mouse	6	Nos
16.	UPS	6	Nos
Media Monitoring			
17.	43'' LED TV	24	Nos
Official Work			
18.	Desktop	12	Nos
19.	22'' LED Monitor	12	Nos
20.	All in one Printer	6	Nos
21.	Antivirus	6	Nos
SIP based IPBEX			
22.	16 Channel IPBEX	6	Nos
23.	Telephone IP Phone Receiver	60	Nos
Security System			
24.	CCTV camera with audio	12	Nos
25.	Biometric Attendance Control	6	Nos
26.	P 1.5 video wall (8 x 12)ft with one processor	6	Nos

All items should be minimum 3 years onsite warranty
Bill of quantity may change at the time of ordering of purchase Order.
Details Technical Specification are given in Section-I.

WEBEL TECHNOLOGY LIMITED
SECTION-H
BILL OF MATERIAL

Sl. No	Item Description	Qty	Unit
Existing CCTV Camera Surveillance for Police Districts (Approx 600 Cameras)			
1.	32 Channel NVR	196	Nos
2.	55''LED TV	196	Nos
3.	24 Port L2 Managed Switch	56	Nos
4.	24 Port SFP Switch	28	Nos
5.	Media Converter	28	Nos
6.	20Km SFP Module	28	Nos
7.	80Km SFP Module	28	Nos
8.	PON Module	28	Nos
9.	4 Port OLT	28	Nos
10.	ONU	28	Nos
11.	CAT6 Cable	28	Nos

12.	HDMI Cable	28	Nos
13.	Extension USB Cable	28	Nos
14.	27u Network Rack	28	Nos
15.	Wireless Keyboard Mouse	28	Nos
16.	UPS	28	Nos
	Media Monitoring		
17.	43'' LED TV	112	Nos
	Official Work		
18.	Desktop	56	Nos
19.	22'' LED Monitor	56	Nos
20.	All in one Printer	28	Nos
21.	Antivirus	28	Nos
	SIP based IPBEX		
22.	16 Channel IPBEX	28	Nos
23.	Telephone IP Phone Receiver	280	Nos
	Security System		
24.	CCTV camera with audio	56	Nos
25.	Biometric Attendance Control	28	Nos

All items should be minimum 3 years onsite warranty
Bill of quantity may change at the time of ordering of purchase Order.
Details Technical Specification are given in Section-I.

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SECTION – I (Revised)

SECTION- 1
Technical Specification Compliance Statement for Police

Commissionerates

Minimum Specification of 32 Channel NVR

Qty.	108 Nos.
Make	
Model	
Part No	

SL No.	Parameters	Value	Specification (Quoted / Applicable – by the bidder)	Compliance (Yes/ No)
1	Type of Recording Device*	NVR		
2	IP Camera Support*	Yes		
3	PTZ Camera Support*	Yes		
4	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)*	Yes		
5	Number of IP Camera supported in Recorder	32		
6	Camera Supported	12MP or Better		
7	Supported Compression Technique*	H.265 & H.264		
8	Maximum Number of cameras to be viewed on a single display*	32		
9	Total number of simultaneous local views	1 or Better		
10	Simultaneous Monitoring Connections for Cameras (Users in Local Network for Client Connection)*	1 or Better		
11	Min. Through put (Mbps)*	256 Mbps		
12	Audio Support*	Yes		
13	Two-way Audio Support*	Yes		
14	Type of Encryption*	HTTPS & WATER MARKING		
15	Alarm Input*	12		
16	Alarm Output*	4		
17	Supported Network Protocols*	As per site requirement		
18	Supported Interface*	Ethernet ,HDMI, VGA,USB,RS 232, RS485		
19	Number of Ethernet Ports*	2		
20	Number of HDMI Ports*	1		
21	Number of VGA Ports*	1		
22	Number of USB Ports*	2		

23	Slient feature Supported	Remote Adminstration, OTA update,PC Client, Web Client		
24	Recording schedule support*	Yes along with MD/Alarm based,/Event based /Analytic based		
25	Bandwidth Control*	Constant Bit Rate (CBR), Variable Bit Rate (VBR)		
26	Camera Notification*	POP up Window on Event, E-mail SNAP SHOT		
27	Search*	Date, Time, Event, Log, Motion, Bookmarks, Full Screen, Next Camera, Previous Camera, Repeat		
28	IVS by NVR	Face detection; face recognition; perimeter protection		
29	Camera*	Add, Edit, Delete		
30	Number of Hard Disk Slots	4		
31	Storage Capacity of each HDD slot	10		
32	Power Input*	12V DC/100 V–240 V AC		
33	Minimum Operating Temperature*	-10		
34	Maximum Operating Temperature*	50		
35	Relative Humidity Non Condensing at 40 deg C*	90		
36	Warranty*	2		
37	BIS Registration for safety general requirements as per IS: 13252 (Part 1): latest*	Yes		
38	Certifications	FCC, UL, CE, RoHS, BIS		

OEM Pre-qualification criteria for NVR and CCTV

#	Criteria	Supporting Document
1.	The OEM of component such as IP Camera, Storage, NVR/ VMS Software and Network Switches should not be blacklisted or banned or barred by any government agency in any country. The OEM Should not be charged or prosecuted for any cheating or fraudulent case(s) in India for their respective product line.	Declaration of OEM on Letterhead
2.	The OEM of CCTV Camera should be a fulltime member of ONVIF and quoted models should be listed on official website of ONVIF. The CCTV OEM should not be suspended/ blacklisted by ONVIF.	OEM declaration on Letterhead supported by valid certificates (valid as on technical bid opening date) / reference documents.
3.	The OEM of CCTV component should be CMMI Level 5 or above certification.	
4.	The OEM of CCTV component should have General Data Protection Regulation (GDPR) certification.	
5.	The OEM of CCTV component should have ISO Certifications for Quality, Environment, Security management, Health & Safety Management system, etc. for manufacturing of all types of Cameras, NVR/ DVR and allied component. - ISO 9001:2015 - ISO 14001:2015 - ISO 27001:2013 - ISO 45001:2018 - ISO 27032:2012	The Bidder/s shall attach the copy of the OEM's ISO Certificate along with the bid.

5

6.	All the CCTV Component such as Camera, VMS, NVR, DVR, etc should be from same OEM for seamless integration and ease of operation. All CCTV cameras offered in this tender should be UL, CE, FCC, RoHS and BIS certified.	Declaration of OEM on Letterhead along the copies of certificates.
7.	The OEM should have average Annual turnover of INR 100 Crores during the last 3 Financial Year ending 31st March 2021.	Audited balance sheet form statutory auditor
8.	The OEM of CCTV component should have its office and service/ support centre in **Kolkata**	Certificate of office establishment, statutory tax registration certificates such as Trade license, GST registration certificate, etc. to be provided.
9.	The camera OEM should be a genuine manufacturer and should have offical valid H.265 HEVC certificate and should be listed on HEVC website at the time of submitting bid. They should be paying the licenced fee for using the genuine HEVC compression legally. The same will be cheked on following official website. https://www. mpegla.com/programs/hevc/licensees/	Declaration of OEM on Letterhead

SECTION- 2
Technical Specification Compliance Statement

Minimum Specification of 55 inch LED TV

Qty.	108 Nos.
Make	
Model	
Part No	

Sl. No.	Section	Parameters	Features	Specification (Quoted / Applicable – by the bidder)	Complied (Yes/ No)
1	Panel	Screen Size	55" or higher		
2		Panel Technology	IPS or VA		
3		Aspect Ratio	16:09		
4		Native Resolution	3,840 x 2,160 (UHD)		
5		Backlight Unit Type	Edge		
6		Brightness (cd/m2)	500nit or higher		
7		Dynamic Contrast Ratio	10,00,000:1 or higher		
8		Viewing Angle (H x V)	178 x 178 or higher		
9		Response Time	8ms(G to G) or better		
10		Surface Treatment (Haze)	Haze 28% or better		
11		Operation Hours	24x7 Hrs		
12		Orientation	Landscape & Portrait		
13	Connectivity	Input	HDMI (3), DP, Audio, USB (2)		
14		Output	HDMI, Audio		
15		External Control	RS232C In/out, RJ45 (LAN) In, IR In		
16	Mechanical Specification	Bezel Color	Black		
17		VESA	300 x 300 or as per OEM		
18	Key Feature		Internal Memory 16 GB, Built-in Wi-Fi, Temperature Sensor, Auto Brightness sensor, Acceleration(Gyro) Sensor, Local Key Operation, Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail over, Background Image (Booting Logo Image, No Signal Image), Sync Mode (RS-232C Sync, Local Network Sync), Multi-screen (PIP, PBP (4)), Screen Share, Video		

6

		Tag (4), Play via URL, Rotation (Screen Rotation, External Input Rotation), Gapless Playback, Tile Mode Setting (Max. 15 × 15), Setting Data Cloning, SNMP, ISM Method, Auto Set ID, Status Mailing, Control Manager, 3rd Party Compatibility (Crestron Connected), Power (Smart Energy Saving, PM mode, Wake on LAN, Network Ready), Beacon, HDMI-CEC, SI Server Setting, webRTC			
19	Environmental	Operation Temperature	0°C to 40°C		
20	Conditions	Operation Humidity	10% to 80%		
21		Power Supply	100-240V~, 50/60Hz		
22	Power	Power Type	Built-In Power		
23		Consumption: Smart Enegy Saving / Max.	130W / 180W		
24	Software	Content Management Software	SuperSign CMS		
25	Compatibility	Control and Monitoring Software	SuperSign Control / Control+		
26		Safety	CB/NRTL		
27	Certification	EMC	FCC Class "B" / CE / KC		
28		ErP / Energy Star	Yes / Yes		
29	Special Feature	IP Rating	IP5x		
30		Warranty	3 Years		
31					

SECTION- 3
Technical Specification Compliance Statement
Minimum Specification of 24 Port L2 Managed Switch

Qty.	24 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Layer-2 Fully Managed Stackable Switch having 24 x 10/100/1000 baseT ports with 2x 10GBASE-T ports & 4x 10G SFP+ slots		
Switching Capacity should be atleast 168Gbps		
Packet Forwarding Rate should be atleast 125Mpps for 64-byte packet size		
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day one		
The switch should have smart fans with sensor IC that provides different fan speed based on different temperature.		
The switch should have support for physical stacking with atleast 8 units per stack.		
The switch should have support for virtual stacking with atleast 25 units per stack.		
The Switch should have support for reduandant power supply.		
Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid		
The Switch should have following L2 features from day one		
1. MAC Address Table size: Atleast 16000		

7

2. Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
3. Jumbo Frame Support (Atleast 9K bytes)		
4. IGMP v1 v2 v3 snooping with atleast 1024 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave		
5. MLD v1 v2 snooping with atleast 1024 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave		
6. IEEE802.1D STP, 802.1w RSTP,802.1s MSTP with atleast 16 MSTP instances, Root guard or equivalent feature. G.8032 ERPS features.		
7. The switch should be able to avoid the loop occuring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with atleast 8 ports per groups & 32 groups per switch.		
9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode, Flow based mirroring.		
10. IEEE 802.1Q VLAN, atleast 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, VoiceVLAN, asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN.		
The switch should have 802.1p support with 8 queues per port. Support strict, WRR queue handling technique. trTCM, srTCM.		
The switch should support CoS based on VLAN, IP address, MAC address, DSCP, TCP/UDP port number, 802.1p priority queues, user defined packet content, IPv6 address		
The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps. Flow-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps		
The switch should have support for standard & extended Access control lists based on VLAN ID, 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, user defined packet content, IPv6 address. Time based ACL.		
The switch should have the following security features from day one: SSHv2 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, authentication database failover, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port. Web based Access Control, MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+. Atleast four level of user account control.		
The switch should have feature to protect the CPU from protocol control packet attack.		
The switch should have feature of atleast 512 static routes, default root, RIPv1v2, RIPng, OSPF, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbor Discovery, VRRP, policy based route from first day		
The Switch should have following Management features from day one: Web-based GUI, CLI, Telnet Server, TFTP Client, SFTP server, SNMPv1v2cv3, SNMP trap, BooTP/DHCP Client, SNTP, NTP, debug command, RMONv1, RMONv2, Syslog, ICMPv6, DHCP server, DHCP Relay Option 60,61,61,125, LLDP, LLDP-MED, Multiple Image support, sflow, trusted host, Physical console port for Out of band management.		
OEM should have valid ISO 9001, ISO 14001 & ISO 45001:2018 certified for design and development of LAN and WAN products, all the relevant certificates must be submitted along with the bid.		
OEM Brand and company together presence in India should must be for last 20 years and OEM should have a registered office in India, from date of RFP publication.		
Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		

The OEM should have their Own service centre running & operational within the state of installation (West Bengal) with minimum manpower of 5 personals for at least last five years. Documentary evidence must be submitted along with the bid.		
The OEM must not be blacklisted or banned by any State/Central Government, Semi Government or PSU and any other GOVT. organization in INDIA and Globally.		
OEM offered must be in steady and profitable business in India at-least for each of the last 10 Financial years (FY 2012-13 to 2021-22) . Bidder shall have to submit audited Balance Sheet in support of their claim.		

SECTION- 4

Technical Specification Compliance Statement
Minimum Specification of 24 Port SFP Switch

Qty.	12 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Layer-2 Fully Managed Stackable Switch having 24x 1G SFP slots with 2x 10GBASE-T ports & 4x 10G SFP+ slots		
Switching Capacity should be atleast 168Gbps		
Packet Forwarding Rate should be atleast 125Mpps for 64-byte packet size		
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day one		
The switch should have smart fans with sensor IC that provides different fan speed based on different temperature.		
The switch should have support for physical stacking with atleast 8 units per stack.		
The switch should have support for virtual stacking with atleast 25 units per stack.		
The Switch should have support for reduandant power supply.		
Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid		
The Switch should have following L2 features from day one		
1. MAC Address Table size: Atleast 16000		
2. Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
3. Jumbo Frame Support (Atleast 9K bytes)		
4. IGMP v1 v2 v3 snooping with atleast 1024 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave		
5. MLD v1 v2 snooping with atleast 1024 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave		
6. IEEE802.1D STP, 802.1w RSTP,802.1s MSTP with atleast 16 MSTP instances, Root guard or equivalent feature. G.8032 ERPS features.		
7. The switch should be able to avoid the loop occuring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with atleast 8 ports per groups & 32 groups per switch.		

9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode, Flow based mirroring.		
10. IEEE 802.1Q VLAN, atleast 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, VoiceVLAN, asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN.		
The switch should have 802.1p support with 8 queues per port. Support strict, WRR queue handling technique. trTCM, srTCM.		
The switch should support CoS based on VLAN, IP address, MAC address, DSCP, TCP/UDP port number, 802.1p priority queues, user defined packet content, IPv6 address		
The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps. Flow-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps		
The switch should have support for standard & extended Access control lists based on VLAN ID, 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, user defined packet content, IPv6 address. Time based ACL.		
The switch should have the following security features from day one: SSHv2 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, authentication database failover, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port. Web based Access Control, MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+. Atleast four level of user account control.		
The switch should have feature to protect the CPU from protocol control packet attack.		
The switch should have feature of atleast 512 static routes, default root, RIPv1v2, RIPng, OSPF, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbor Discovery, VRRP, policy based route from first day		
The Switch should have following Management features from day one: Web-based GUI, CLI, Telnet Server, TFTP Client, SFTP server, SNMPv1v2cv3, SNMP trap, BooTP/DHCP Client, SNTP, NTP, debug command, RMONv1, RMONv2, Syslog, ICMPv6, DHCP server, DHCP Relay Option 60,61,61,125, LLDP, LLDP-MED, Multiple Image support, sflow, trusted host, Physical console port for Out of band management.		
OEM should have valid ISO 9001, ISO 14001 & ISO 45001:2018 certified for design and development of LAN and WAN products, all the relevant certificates must be submitted along with the bid.		
OEM Brand and company together presence in India should must be for last 20 years and OEM should have a registered office in India, from date of RFP publication.		
Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		
The OEM should have their Own service centre running & operational within the state of installation (West Bengal) with minimum manpower of 5 personals for at least last five years. Documentary evidence must be submitted along with the bid.		
The OEM must not be blacklisted or banned by any State/Central Government, Semi Government or PSU and any other GOVT. organization in INDIA and Globally.		
OEM offered must be in steady and profitable business in India at-least for each of the last 10 Financial years (FY 2012-13 to 2021-22) . Bidder shall have to submit audited Balance Sheet in support of their claim.		

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SECTION- 5

Technical Specification Compliance Statement

Minimum Specification of Media Converter

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
• **Type:** Ethernet to Fiber Optic Converter • **Operating Temperature:** 0 to 50 Degree • **Physical Dimension:** 97 * 70* 26 mm • **Mounting Type:** Wall mount • Single-Mode 10/100Base-TX to 100Base-FX, RJ45 To SC, Fiber Transceiver Up to 25KM (1 Pair)		

SECTION- 6

Technical Specification Compliance Statement

Minimum Specification of 20Km SFP Module

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Range: 20KM 1.25G 1310 Single Mode Single Fiber SFP Module - Pair		

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SECTION- 7
Technical Specification Compliance Statement

Minimum Specification of 80Km SFP Module

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Type: SFP+ **Compatibility:** Multi-Vendor MSA Compatible **Tx/Rx Wavelength:** 1550 nm. / 1550 nm. **Media Type:** Single-Mode Fiber (SMF) **Optical Budget:** 23 dB **Max.** **Distance:** 80 km **Data Rate:** 1.25-10.31 Gbps **Temperature**: Standard 0°-70ºC		

SECTION- 8

Technical Specification Compliance Statement

Minimum Specification of PON Module

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Usage/Application: OPTICAL LINE TERMINAL USES **Phase Type:** Single Phase **Voltage:** 220 V **Frequency:** 50 Hz **Power** **Source:** Electric **Material:** Aluminum **Packaging Type:** Box		

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SECTION- 9
Technical Specification Compliance Statement

Minimum Specification of 4 Port OLT

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
☐ Layer 3 OLT brand		
☐ Support 10G Uplink		
☐ Support WEB, CLI and EMS		
☐ Support unify management of data		
☐ VoIP, WiFi and CATV service.		
It can support 256 ONUs under 1:64 splitter ratio.		

SECTION- 10

Technical Specification Compliance Statement

Minimum Specification of Optical Network Unit (ONU)

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification		Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Special Feature	QoS, Remote Access		
Compatible Devices	Personal Computer, Laptop, TV, Smartphone		
Frequency Band Class	Dual Band		
Antenna Type	Fixed		

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SECTION- 11

Technical Specification Compliance Statement

Minimum Specification of CAT-6 CABLE

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Cat6 U/UTP 4 pair Outdoor Cable, solid bare copper with cross filler pair separator exceeding TIA 568-C.2 standard		
Horizontal Cabling Category 6 shall be 23 AWG, 4 Pair UTP, Outdoor double jacketed		
Inner Jacket - Polyethylene (PE)		
Outer jacket - LSZH		
<14 Kg		
Tested upto 250 MHz		
7.2 mm		
305 Mtr Reel		
<=9.38 Ohms / 100 Mtr		
<45 ns		
-20 to +70 Deg C		
Must be ROHS/ELV compliant		
Offered product OEM shall be member of global TIA committee. Membership shall be available for verification at www.tiaonline.org/about/member-list		
OEM Should be ISO9001 and ISO14001 certified		
for design, Development for LAN & WAN product.		
Cabling OEM shall have ISO 9001 & 14001 manufacturing facility in India functioning for min 10 years.		

SECTION- 12

Technical Specification Compliance Statement

Minimum Specification of HDMI Cable

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)

Length: 10 m **Speed:** High-Speed HDMI Cable **Supports** : Ethernet, 3D, 4K and Audio Return, With Gold Plated connector, **Material:** 100% Pure Bare Cooper conductor ensure Highest quality transmission **Compatible Device:** Compatible with TV, COMPUTER, PHONE, PROJECTOR, MONITOR, LED, LCD, Black, One Cable)		

SECTION- 13

Technical Specification Compliance Statement

Minimum Specification of Extension USB Cable

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
• 4 in 1 Ultra Slim USB • Hub 2.0,1.2 • Meter(4 feet) Cable, • Transfer Speed of 480MBPS, Universally Compatible with All USB PC Speaker Laptop Hard Drive Keyboard Printer Pen Drive		

SECTION- 14

Technical Specification Compliance Statement

Minimum Specification of 27u Network Rack

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)

Dimension: 60 x 100 x 131 cm; 80 Kilograms **Compatible Devices**:Server **Batteries Included:**No **Batteries Required**:No **Material:**Alloy Steel **Mounting Type:** Floor Mount		

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SECTION- 15

Technical Specification Compliance Statement

Minimum Specification of Wireless keyboard & Mouse

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Colour: Black **Connectivity Technology:** USB **Special Feature**: Wireless, Ergonomic, Optical **Compatible Devices:** Computer, Laptop		

SECTION- 16

Technical Specification Compliance Statement

Minimum Specification of UPS

Qty.	6 Nos.
Make	
Model	
Part No	

Sl No	Minimum Specification		Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	UPS Capacity	**1 kVA UPS System (1Ph Input /1Ph Output)**		
2	Topology	True On-line Double Coverstion UPS		
3	Output power capacity	**.8KW (800 Watt)**		
4	**Input**			
4.1	Voltage Range	110 - 300 VAC based on the load percentage		
4.2	Frequency	50 Hz		
	Frequency Range	45 to 55 Hz		
4.3	Power Factor	$\geq$ 0.99 at full load and nominal input Voltage		
4.5	Current THD	< 5%		
5	**Output**			
5.1	Voltage	230 VAC		
5.2	Voltage Regulation	+ / - 1%		
5.3	Frequency (Free Running Mode)	50 Hz $\pm$ 0.1 Hz		
5.4	Frequency (Synchronisation	45 to 55 Hz		

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	Mode)			
5.5	Harmonic Distortion (THD)	≤ 2% (linear load)		
		≤ 5% (non-linear load)		
5.6	Output Waveform	Sine wave		
5.7	Crest Factor	3:1		
5.8	Inverter Efficiency	≥ 90%		
5.9	Power Factor	0.9 Lagging		
5.10	Overload	101% - 109% for 5 minutes		
		110% - 129% for 1 minute		
		130%-150% for 10 Sec		
5.11	System DC Voltage	≥ 36 VDC		
6	**Battery**			
6.1	Battery Type	12 V Sealed Lead Acid Maintenance Free		
6.2	Battery make	**Exide/ Quanta with Build in Battery.**		
6.3	Battery charging	Constant Current & Constant Voltage		
6.4	Back up time	**30 Mins Backup**		
6.5	Charger	Built-in solid state float-cum-equalizing charger with		
		automatic boost / trickle charge modes with		
		current limiting features.		
6.6	**VAH Required**	**≥ 1008**		
7	**Efficiency**			
	AC/AC (overall efficiency)	≥ 85% (at full Load)		
8	**Features**			
8.1	Eco mode	Available		
8.2	Overload capacity	Available		
8.3	Converter mode	Available		
8.4	Bypass parameters configurable	Available		
8.5	Display	LCD Display		
9	**Mechanical**			
	Ingress protection	IP 20		
10.6	Bypass	Static Bypass		
10.7	Maintenance Bypass	Available		
12	**Certifications**			
12.1	**ISO 9001 : 2008**			
12.3	**ISO 14001 : 2004**			
12.4	**BIS Certificate**			
12.5	**PEP Certificate**			
13	**Warranty**	**3 Years on UPS & 3 Years on Battery from date of supply.**		
14	**Service purpose**	**UPS OEM should have toll free number facilities for all type service call logging support.**		
15	**Criteria**	**UPS OEM should have at least minimum 10/12 owned Service Centers across West Bengal (Where Spare & Parts stock availabe and UPS will repaire instant)**		
		UPS OEM should have single PO Copy & supplied 1000 Units Online UPS in any Govt.project through System Integrator during last 2 (two) years. .		

		UPS OEM should have 500 CR turnover consecutive last 3 financial Years		
		UPS OEM should have own Factory premises in India		

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SECTION- 17

Technical Specification Compliance Statement

Minimum Specification of 43'' LED TV

Qty.	24 Nos.
Make	
Model	
Part No	

Sl. No.	Section	Parameters	Features	Specification (Quoted / Applicable – by the bidder)	Complied (Yes/ No)
1	Display	Inch	43" or higher		
2		Resolution	3,840 X 2,160 (UHD)		
3		Backlight Unit Type	Direct		
4		Brightness (cd/m2)	300 or higher		
5		Dynamic Contrast Ratio	1,000,000:1 or higher		
6		Refresh Rate	60 Hz		
7	VIDEO SYSTEM	HDR (10 Pro / HLG)	Yes / Yes		
8	AUDIO	Audio Output	10W + 10W		
9	BROADCASTING SYSTEM	Digital (Terrestrial, Cable, Satellite)	DVB-T2/C		
10	SW COMPABILITY	Control / Control Plus, CMS(Premium), Simple Editor			
11	SIGNAGE FEATURE	Vertical Setup, Fail Over, Play Via URL, NTP Server Setting, CISCO Certificated, Crestron Connected (Network Based Control), DPM (Digital Power management), Time scheduler, RTC (Real Time Clock), NTP sync timer, BEACON, Embedded CM (contents manager), Embedded GM (Group manager)			
12	SMART FEATURE	Smart Home (Launcher Bar), Web Browser, Pre-loaded App, SDP Server compatibility, Mood Display, Soft AP, WiFi (Version) (802. 11ac), Screen Share (Miracast), Smart Share, Bluetooth Audio Playback, HDMI-ARC (ARC, HDMI2), Vertical Setup, Fail Over, Play Via URL, NTP Server Setting, CISCO Certi. Compatibility			
13	KEY FEATURE	PDM / Installer Menu, One Channel Map, IP Channel Manager, External Speaker Out (Int Variable/Fixed, 3.5mm, Stereo, Single ended Type)			
14	JACK INTERFACE	Set Side	HDMI In (3 (2.0)), Headphone Out (Phone Jack Type), RS-232C(D-Sub 9pin / Phone jack) (Phone Jack, 4pin)		
15		Set Rear	USB (2.0), RF In, Digital Audio Out (Optical), External Speaker Out(3.5mm phone jack), RJ45 (Usage Purpose) (LAN)		
16	POWER	Voltage, Hz	100 ~ 240 V, 50/60 Hz		
17		Power Consumption (Typ.)	98W or less		
18		Stand-by	Under 0.5W		
19	CERTIFICATION	Standard	BIS		
20		Safety	CB / CU TR		
21		EMC	CE		
22	Warranty	3 Years			

WEBEL TECHNOLOGY LIMITED

SECTION- 18
Technical Specification Compliance Statement

Minimum Specification of Desktop

Qty.	12 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Processor: CPU- Intel @ Core i7- 12th Gen or higher/ Equivalent AMD Memory: RAM- 16 GB DDR4-3200 M Hz or Higher Hard drive: Storage – 512 GB PCIe NVMe TM TLC M.2 SSD Operating System: Win 11 Prof, MS office Display: 24 inch 5MP FDH or Higher, IPS panel Chipset: Intel Q670 or Higher/ Equivalent AMD USB ports etc:1x HDMI, Min. 3x USB 10Gbps, Wireless Keyboard and Mouse Combo/ Intel Iris Graphics/ IR Privacy Camera Chassis:Yes Warranty:3 Years Onsite		

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Technical Specification Compliance Statement

Minimum Specification of 22'' LED MONITOR

Qty.	12 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Hardware Interface: VGA, HDMI		
Response Time: 5 Milliseconds		
Resolution: FHD 1080p		
Special Features: Flicker-Free		
Mounting Hardware: 1 Unit of Monitor, 1 Unit of adapter & cable		
Display Technology: LED		
Standing screen display size: 22 Inches		
Display Type: IPS		
Colour Screen: No		
Viewing Angle: 178 Degrees		
Image brightness: 250 cd / m²		
Aspect Ratio: 16:9		
Screen Resolution: 1920 x 1080		
Resolution: 1080p Full HD		
Wattage: 25 Watts		
Batteries Included: No		
Batteries Required : No		
Refresh Rate: 60 Hz		
Connector Type: VGA, Auxiliary, DVI, HDMI		
Mounting Type: Desk Mount		
Actual viewing angle: 178 Degrees		
Has Auto Focus: No		
Programmable Buttons: No		

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SECTION- 20

Technical Specification Compliance Statement

Minimum Specification of All in One Printer

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Product Type Laser printers		
Functions Print scan copy and fax		
Connectivity AirPrint™, Ethernet networking, USB, Wireless (Wi-Fi®)		
Connectivity, Standard 1 Hi-Speed USB 2.0; 1 rear host USB; 1 Front USB port; Gigabit Ethernet LAN 10/100/1000BASE-T network; 802.3az(EEE); 802.11b/g/n / 2.4 / 5 GHZ Wi-Fi radio + BLE		
Network Capabilities Gigabit Ethernet 10/100/1000BASE- T network; 802.11b/g/n; 2.4/5 GHZ Wi-Fi radio		
Wireless Capability Yes, built-in dual-band Wi-Fi; Authentication via 802.1X; Wi-Fi Direct; Bluetooth Low-Energy		
Mobile Printing Capability Apple AirPrint™; Mopria™ Certified; Wi-Fi® Direct Printing; Optional ROAM Queue Printing; HP ROAM For Business		
Network Protocols, Supported TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode.		
Plug And Play Auto Wireless Connect; Easy wireless setup. **Display** 6.9 cm (2.7) intuitive color touchscreen (CGD) **Display Area (Metric)** 5.4 x 4.05 cm		
Scan Speed (Normal, Letter) Up to 31 ppm (b&w), up to 21 ppm (color)		
Scan Speed (Normal, A4) Up to 29 ppm (b&w), up to 20 ppm (color)		
Cartridge & Printer heads Technology Laser		
Number Of Print Cartridges 1 (black)		
Copy Speed (Black, Normal Quality, A4) Up to 35 cpm **Copy Speed Black (Normal, Letter)** Up to 37 cpm **Copy Speed Black Duplex (A4)** Up to 31 cpm		
Copy Speed Black Duplex (Letter) Up to 33 cpm		
Power 110-volt input voltage: 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz) (Not dual voltage, product varies by part number with # Option code identifier)		

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Digital Sending Standard Features Scan to email; Scan to PDF, Scan to computer with software		
Storage Device And Direct Print Support Wireless direct printing; Optional job storage via external rear host USB port (Minimum 16GB); Walk-up USB printing		
Duty Cycle (Monthly, Letter) Up to 80,000 pages		
Duty Cycle Note Duty cycle is defined as the maximum number of pages per month of imaged output.		
Envelope Feeder No **Functions** Print, Copy, Scan **Internal Storage** No		
Paper Trays, Maximum 3		
Duty Cycle (Monthly, A4) Up to 80,000 pages		
Paper Trays, Standard 2		
Duplex Printing Automatic (default)		
Memory Card Compatibility No		
Print Colours NO		

WEBEL TECHNOLOGY LIMITED

SECTION- 21

Technical Specification Compliance Statement

Minimum Specification of Antivirus

Qty.	6 Set
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
• Works on: Windows 11, 10, 8.1 fully patched (32- and 64- bit) • Number of Users: 2 User ; Validity: 3 Years		

SECTION- 22

Technical Specification Compliance Statement

Minimum Specification of 16 Channel IPBEX

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Telephone Type: Corded **Power Source:** Corded Electric **Dialer Type:** Single Keypad • Intercom (extn. to extn. call between 8 Intercoms) • Call transfer, call hold and busy transfer • Call Pick-up form any extension		

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SECTION- 23

Technical Specification Compliance Statement

Minimum Specification of Telephone IP Phone Receiver

Qty.	60 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Compatible Devices: SIP Line , IPPBX , VOIP Call **Standing screen display size:** 2.48 Inches **Display Type:** LCD **Power Source:** Corded Electric **Batteries Included:** No **Batteries Required:** No **Mounting Type:** Desktop		

SECTION- 24

Technical Specification Compliance Statement

Minimum Specification of CCTV Camera with audio

Qty.	12 Nos.
Make	
Model	
Part No	

S.NO	Parameters	Value	Specification (Quoted / Applicable – by the bidder)	Compliance (Yes/ No)
1	Type of Camera Housing	Bullet		
2	Camera Type	IP Based		
3	Image Sensor Type	CMOS		
4	Image Sensor Size	0.370 or better		
5	Camera Image Sensing	4 MP or better		
6	Resolution	2688 x 1520		
7	Day/Night Capable	Yes		
8	IR illumination Range(mtr)	120 or better		
9	Lens Type	Fixed Iris		
10	Focal Length(mm)	3.6mm or as per the site		
11	Mount Type	M12		

12	Frame Rate (fps)	Main stream (2688 × 1520@1–25/30 fps) ; sub stream (704 × 576@1–25/30 fps) ; third stream (1280 × 720@1–25/30 fps)		
13	Video Compression	H.265 & H.264		
14	Video Streams	Tri-Stream or better		
15	Digital Zoom	10x or Better		
16	Number of Audio Input Channel	1 for external MIC / built-in Mic		
17	Number of Audio Output Channel	1 (RCA)		
18	Alarm Support	Yes		
19	Number of Alarm Input	1 or Better		
20	Number of Alarm Output	1 or Better		
22	Multi Level User ID/Password	Yes		
23	IP Address Filtering	Yes		
24	Minimum Illumination for Capturing Color Image	0.005 Lux@F1.6 Or Better		
25	Electronic Shutter Speed(sec)	1/3 s–1/100000 s		
26	WDR (Wide Dynamic Range)	120 db or better		
27	SNR (Signal to Noise Ratio)	>49 Db or better		
28	White Balance	Yes		
29	Auto Gain Control	Yes		
30	Back Light Compensation	Yes		
31	Remote Administration	Yes		
32	ONVIF Support	Profile S,Profile G		
33	Privacy Zones	4		
34	Supported Protocols	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; CGI		
35	Max supported SD Card	512 GB or better		
36	Protection	IP67 or better		
37	Mounting Type	Wall		
38	Power Input	12V DC/POE		
39	Min. Operating Temperature	-40 deg C		
40	Max. Operating Temperature	55 deg C		
41	Relative Humidity Non Condensing (%)	less than 95%RH		
42	Warranty	2years		
43	IVS	Tripwire, Intrusion (Recognition of human and vehicle)		
44	Certification	CE, FCC, RoHS, BIS, Onvif		

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SECTION- 25

Technical Specification Compliance Statement Minimum

Specification of Biometric attendance Control

Qty.	6 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Type & Connectivity: Fingerprint, card & pin authentication with Wifi connectivity. Cloud Compatible attendance device		
User Capacity: Upto 19000 fingerprint template & upto 180000 transaction capacity		
Ports: TCP/IP, Wi-Fi.		
Compatible: With Mobile app		
Display: 2.4 inch TFT Color Display		
Extra Feature: Device has to be professional door access control feature.		

SECTION- 26

Technical Specification Compliance Statement

Minimum Specification of P.15 video wall (8 x 12) ft with one processor

Qty.	6 Nos.
Make	
Model	
Part No	

Sl. No.	Section	Parameters	Features	Specification (Quoted / Applicable – by the bidder)	Complied (Yes/ No)
1	Physical Parameters	Screen Size (w x H)	4.2m x 1.35m or bigger		
		Total Resolution of Screen	2688 X 864 or more		
		Cabinet Size	600mm x 337.5mm		
		Pitch pitch	1.57 mm or less		
		Pixel Configuration	3 in 1 SMD		
		Weight per Cabinet	7 Kg or less		
		Physical Pixel Density (pixels/m^2)	409600 or more		
		Flatness of Unit Case (mm)	±0.5 or less		
		Cabinet Depth	72mm or less		

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		Unit Case material	Die casting Aluminium or Die Casting Magnesium		
		Service access	Front		
	Optical Specifications	Minimum Brightness (After Calibration)	600 cd/m2 or more		
		Color Temperature	3200 - 9300 or better		
		Visual Viewing Angle (Horizontal)	160 or more		
		Visual Viewing Angle (Vertical)	150 or more		
		Brightness Uniformity	97% or more		
		Color Uniformity	±0.003CxCy		
		Contrast Ratio	5000 or more		
		Processing Depth (bit)	14 or more		
		Power Consumption (W/㎡, Max.)	550 or less		
		Power Supply (V)	100 to 240		
		Frame Rate (Hz)	50 or more		
		Refresh Rate (Hz)	3840 or more		
	Operation Specifications	Lifetime	100000 hr or more		
		Operating Temperature	0∘ to +40∘		
		Operating Humidity	10~80%RH		
		IP rating Front	IP50		
		IP rating Rear	IP50		
	Certifications	Certifications	CE, FCC, UL, EMC, RoHS BIS, CB and REACH		
	LED Controller of same Make as LED Screen with Original OEM Software for Configuration	Inputs	HDMI HDCP 2.2 , DP & OPS Slot		
		Controller of Same Make as LED Screen	Yes		
		Resolution Supported	3840x2160 @ 60HZ or better		
		Output Pixel	8.2 Million or more		
		Control Ports	RS232C Loop and LAN		
		LAN Output	Minimum 16 or more		
		Temperature Sensor	Yes		
		Chrome Adjustment	Yes		
		Quality & Security Standards/ Test Reports of Quoted Controller Model	IEC 62368-1:2018 UL 60950-1:2007		
		Original LED Configuration Software of LED Screen OEM	Yes		
		Brightness Adjustment	Yes		
		Scaling	Yes		
		HDR 10 + / HDR 10 Pro	Yes		
		Operating System	Yes		
		Remote Control	Yes remote for Easy		

			Usage		
		Signal Redundancy Support	Yes		
	Digital Signage Software of Same Brand as LED Controller and LED Cabinet, Compliance to Security Standards to be Confirmed on OEM Letterhead	Secure Platform with Maximum Protection to Prevent Hacking or Unauthorised Access	Yes		
		Operating System Platform Security	Sandboxing -Jailer MD5/AES decryption API Application encryption		
		Network Security & Security testing and Certification	Https (TLS v1.2 and above) Proxy and exception domain Port Control		
			Internal security testing TTA certification UL2900 certification for Security Manager (ANSI, FDA standard)		
			Able to check file integrity so that downloaded file is not crashed, corrupted or manipulated		
			Able to use encrypted contents for security		
			Supports Application Encryption To prevent hooking application and source code		
		Designing Content & Scheduling Content Screen Wise over Network			
		Capability to Divide Screen into Multiple Zones and Play Different Images., Video, URL, HDMI input etc in Zones			
	OEM Eligibility	OEM Brand should have active business in India from last 10 years (Incorporation Certificate Required)			
		OEM Brand should have valid PF & GST registration certificate in India.			
		OEM Brand should have valid certificates ISO9001, ISO14001, ISO45001 for India			
		OEM Brand should have Local GSTN registration.			
		OEM Brand should have Local Branch office, Service Branch & warehouse to maintain spares/Stand by units to provide fast and smooth service from 5 years in the State.			
		OEM Brand should have minimum turnover of 500 Cr in last 3 financial years in India (BL/CA Certify letter required) 2019/2020/2021 (Per year)			

		OEM Brand should have experience of supply Minimum 10 LED Screens in any Government department in last Two financial years Direct or through Partner , (Po/Supply order/Agreement/ Similar Document is required)		
		LED OEM should have direct registered office and Direct Service Centre in state from Last 10 years with toll free Number for Call logging.		

WEBEL TECHNOLOGY LIMITED

Technical Specification Compliance Statement for Police

Districts

Minimum Specification of 32 Channel NVR

Qty.		196 Nos.
Make		
Model		
Part No		

SL No.	Parameters	Value	Specification (Quoted / Applicable – by the bidder)	Compliance (Yes/ No)
1	Type of Recording Device*	NVR		
2	IP Camera Support*	Yes		
3	PTZ Camera Support*	Yes		
4	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)*	Yes		
5	Number of IP Camera supported in Recorder	32		
6	Camera Supported	12MP or Better		
7	Supported Compression Technique*	H.265 & H.264		
8	Maximum Number of cameras to be viewed on a single display*	32		
9	Total number of simultaneous local views	1 or Better		
10	Simultaneous Monitoring Connections for Cameras (Users in Local Network for Client Connection)*	1 or Better		
11	Min. Through put (Mbps)*	256 Mbps		
12	Audio Support*	Yes		
13	Two-way Audio Support*	Yes		
14	Type of Encryption*	HTTPS & WATER MARKING		
15	Alarm Input*	12		
16	Alarm Output*	4		
17	Supported Network Protocols*	As per site requirement		
18	Supported Interface*	Ethernet ,HDMI, VGA,USB,RS 232, RS485		
19	Number of Ethernet Ports*	2		
20	Number of HDMI Ports*	1		
21	Number of VGA Ports*	1		
22	Number of USB Ports*	2		
23	Slient feature Supported	Remote Adminstration, OTA update,PC Client, Web Client		
24	Recording schedule support*	Yes along with MD/Alarm based,/Event based /Analytic based		

25	Bandwidth Control*	Constant Bit Rate (CBR), Variable Bit Rate (VBR)		
26	Camera Notification*	POP up Window on Event, E-mail SNAP SHOT		
27	Search*	Date, Time, Event, Log, Motion, Bookmarks, Full Screen, Next Camera, Previous Camera, Repeat		
28	IVS by NVR	Face detection; face recognition; perimeter protection		
29	Camera*	Add, Edit, Delete		
30	Number of Hard Disk Slots	4		
31	Storage Capacity of each HDD slot	10		
32	Power Input*	12V DC/100 V–240 V AC		
33	Minimum Operating Temperature*	-10		
34	Maximum Operating Temperature*	50		
35	Relative Humidity Non Condensing at 40 deg C*	90		
36	Warranty*	2		
37	BIS Registration for safety general requirements as per IS: 13252 (Part 1): latest*	Yes		
38	Certifications	FCC, UL, CE, RoHS, BIS		

OEM Pre-qualification criteria for NVR and CCTV

#	Criteria	Supporting Document
1.	The OEM of component such as IP Camera, Storage, NVR/ VMS Software and Network Switches should not be blacklisted or banned or barred by any government agency in any country. The OEM Should not be charged or prosecuted for any cheating or fraudulent case(s) in India for their respective product line.	Declaration of OEM on Letterhead
2.	The OEM of CCTV Camera should be a fulltime member of ONVIF and quoted models should be listed on official website of ONVIF. The CCTV OEM should not be suspended/ blacklisted by ONVIF.	OEM declaration on Letterhead supported by valid certificates (valid as on technical bid opening date) / reference documents.
3.	The OEM of CCTV component should be CMMI Level 5 or above certification.	
4.	The OEM of CCTV component should have General Data Protection Regulation (GDPR) certification.	
5.	The OEM of CCTV component should have ISO Certifications for Quality, Environment, Security management, Health & Safety Management system, etc. for manufacturing of all types of Cameras, NVR/ DVR and allied component. - ISO 9001:2015 - ISO 14001:2015 - ISO 27001:2013 - ISO 45001:2018 - ISO 27032:2012	The Bidder/s shall attach the copy of the OEM's ISO Certificate along with the bid.
6.	All the CCTV Component such as Camera, VMS, NVR, DVR, etc should be from same OEM for seamless integration and ease of operation. All CCTV cameras offered in this tender should be UL, CE, FCC, RoHS and BIS certified.	Declaration of OEM on Letterhead along the copies of certificates.

WEBEL TECHNOLOGY LIMITED

7.	The OEM should have average Annual turnover of INR 100 Crores during the last 3 Financial Year ending 31st March 2021.	Audited balance sheet form statutory auditor
8.	The OEM of CCTV component should have its office and service/ support centre in **Kolkata**	Certificate of office establishment, statutory tax registration certificates such as Trade license, GST registration certificate, etc. to be provided.
9.	The camera OEM should be a genuine manufacturer and should have offical valid H.265 HEVC certificate and should be listed on HEVC website at the time of submitting bid. They should be paying the licenced fee for using the genuine HEVC compression legally. The same will be cheked on following official website. https://www. mpegla.com/programs/hevc/licensees/	Declaration of OEM on Letterhead

SECTION- 2
Technical Specification Compliance Statement

Minimum Specification of 55 inch LED TV

Qty.	196 Nos.
Make	
Model	
Part No	

Sl. No.	Section	Parameters	Features	Specification (Quoted / Applicable – by the bidder)	Complied (Yes/ No)
1	Panel	Screen Size	55" or higher		
2		Panel Technology	IPS or VA		
3		Aspect Ratio	16:09		
4		Native Resolution	3,840 x 2,160 (UHD)		
5		Backlight Unit Type	Edge		
6		Brightness (cd/m2)	500nit or higher		
7		Dynamic Contrast Ratio	10,00,000:1 or higher		
8		Viewing Angle (H x V)	178 x 178 or higher		
9		Response Time	8ms(G to G) or better		
10		Surface Treatment (Haze)	Haze 28% or better		
11		Operation Hours	24x7 Hrs		
12		Orientation	Landscape & Portrait		
13	Connectivity	Input	HDMI (3), DP, Audio, USB (2)		
14		Output	HDMI, Audio		
15		External Control	RS232C In/out, RJ45 (LAN) In, IR In		
16	Mechanical	Bezel Color	Black		
17	Specification	VESA	300 x 300 or as per OEM		
18	Key Feature		Internal Memory 16 GB, Built-in Wi-Fi, Temperature Sensor, Auto Brightness sensor, Acceleration(Gyro) Sensor, Local Key Operation, Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail over, Background Image (Booting Logo Image, No Signal Image), Sync Mode (RS-232C Sync, Local Network Sync), Multi-screen (PIP, PBP (4)), Screen Share, Video Tag (4), Play via URL, Rotation (Screen Rotation, External Input Rotation), Gapless Playback, Tile Mode Setting (Max. 15 × 15), Setting Data Cloning, SNMP, ISM Method, Auto Set ID, Status Mailing, Control Manager, 3rd Party Compatibility (Crestron Connected), Power (Smart		

3

		Energy Saving, PM mode, Wake on LAN, Network Ready), Beacon, HDMI-CEC, SI Server Setting, webRTC			
19	Environmental	Operation Temperature	0°C to 40°C		
20	Conditions	Operation Humidity	10% to 80%		
21		Power Supply	100-240V~, 50/60Hz		
22	Power	Power Type	Built-In Power		
23		Consumption: Smart Enegy Saving / Max.	130W / 180W		
24	Software	Content Management Software	SuperSign CMS		
25	Compatibility	Control and Monitoring Software	SuperSign Control / Control+		
26		Safety	CB/NRTL		
27	Certification	EMC	FCC Class "B" / CE / KC		
28		ErP / Energy Star	Yes / Yes		
29	Special	IP Rating	IP5x		
30	Feature	Warranty	3 Years		
31					

SECTION- 3
Technical Specification Compliance Statement
Minimum Specification of 24 Port L2 Managed Switch

Qty.	56 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Layer-2 Fully Managed Stackable Switch having 24 x 10/100/1000 baseT ports with 2x 10GBASE-T ports & 4x 10G SFP+ slots		
Switching Capacity should be atleast 168Gbps		
Packet Forwarding Rate should be atleast 125Mpps for 64-byte packet size		
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day one		
The switch should have smart fans with sensor IC that provides different fan speed based on different temperature.		
The switch should have support for physical stacking with atleast 8 units per stack.		
The switch should have support for virtual stacking with atleast 25 units per stack.		
The Switch should have support for reduandant power supply.		
Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid		
The Switch should have following L2 features from day one		
1. MAC Address Table size: Atleast 16000		
2. Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
3. Jumbo Frame Support (Atleast 9K bytes)		

3

4. IGMP v1 v2 v3 snooping with atleast 1024 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave		
5. MLD v1 v2 snooping with atleast 1024 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave		
6. IEEE802.1D STP, 802.1w RSTP,802.1s MSTP with atleast 16 MSTP instances, Root guard or equivalent feature. G.8032 ERPS features.		
7. The switch should be able to avoid the loop occuring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with atleast 8 ports per groups & 32 groups per switch.		
9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode, Flow based mirroring.		
10. IEEE 802.1Q VLAN, atleast 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, VoiceVLAN, asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN.		
The switch should have 802.1p support with 8 queues per port. Support strict, WRR queue handling technique. trTCM, srTCM.		
The switch should support CoS based on VLAN, IP address, MAC address, DSCP, TCP/UDP port number, 802.1p priority queues, user defined packet content, IPv6 address		
The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps. Flow-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps		
The switch should have support for standard & extended Access control lists based on VLAN ID, 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, user defined packet content, IPv6 address. Time based ACL.		
The switch should have the following security features from day one: SSHv2 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, authentication database failover, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port. Web based Access Control, MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+. Atleast four level of user account control.		
The switch should have feature to protect the CPU from protocol control packet attack.		
The switch should have feature of atleast 512 static routes, default root, RIPv1v2, RIPng, OSPF, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbor Discovery, VRRP, policy based route from first day		
The Switch should have following Management features from day one: Web-based GUI, CLI, Telnet Server, TFTP Client, SFTP server, SNMPv1v2cv3, SNMP trap, BooTP/DHCP Client, SNTP, NTP, debug command, RMONv1, RMONv2, Syslog, ICMPv6, DHCP server, DHCP Relay Option 60,61,61,125, LLDP, LLDP-MED, Multiple Image support, sflow, trusted host, Physical console port for Out of band management.		
OEM should have valid ISO 9001, ISO 14001 & ISO 45001:2018 certified for design and development of LAN and WAN products, all the relevant certificates must be submitted along with the bid.		
OEM Brand and company together presence in India should must be for last 20 years and OEM should have a registered office in India, from date of RFP publication.		
Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		
The OEM should have their Own service centre running & operational within the state of installation (West Bengal) with minimum manpower of 5 personals for at least last five years. Documentary evidence must be submitted along with the bid.		

The OEM must not be blacklisted or banned by any State/Central Government, Semi Government or PSU and any other GOVT. organization in INDIA and Globally.		
OEM offered must be in steady and profitable business in India at-least for each of the last 10 Financial years (FY 2012-13 to 2021-22) . Bidder shall have to submit audited Balance Sheet in support of their claim.		

SECTION- 4

Technical Specification Compliance Statement
Minimum Specification of 24 Port SFP Switch

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Layer-2 Fully Managed Stackable Switch having 24x 1G SFP slots with 2x 10GBASE-T ports & 4x 10G SFP+ slots		
Switching Capacity should be atleast 168Gbps		
Packet Forwarding Rate should be atleast 125Mpps for 64-byte packet size		
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day one		
The switch should have smart fans with sensor IC that provides different fan speed based on different temperature.		
The switch should have support for physical stacking with atleast 8 units per stack.		
The switch should have support for virtual stacking with atleast 25 units per stack.		
The Switch should have support for reduandant power supply.		
Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid		
The Switch should have following L2 features from day one		
1. MAC Address Table size: Atleast 16000		
2. Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
3. Jumbo Frame Support (Atleast 9K bytes)		
4. IGMP v1 v2 v3 snooping with atleast 1024 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave		
5. MLD v1 v2 snooping with atleast 1024 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave		
6. IEEE802.1D STP, 802.1w RSTP,802.1s MSTP with atleast 16 MSTP instances, Root guard or equivalent feature. G.8032 ERPS features.		
7. The switch should be able to avoid the loop occuring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with atleast 8 ports per groups & 32 groups per switch.		
9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode, Flow based mirroring.		
10. IEEE 802.1Q VLAN, atleast 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, VoiceVLAN, asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN.		

3

The switch should have 802.1p support with 8 queues per port. Support strict, WRR queue handling technique. trTCM, srTCM.		
The switch should support CoS based on VLAN, IP address, MAC address, DSCP, TCP/UDP port number, 802.1p priority queues, user defined packet content, IPv6 address		
The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps. Flow-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps		
The switch should have support for standard & extended Access control lists based on VLAN ID, 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, user defined packet content, IPv6 address. Time based ACL.		
The switch should have the following security features from day one: SSHv2 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, authentication database failover, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port. Web based Access Control, MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+. Atleast four level of user account control.		
The switch should have feature to protect the CPU from protocol control packet attack.		
The switch should have feature of atleast 512 static routes, default root, RIPv1v2, RIPng, OSPF, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbor Discovery, VRRP, policy based route from first day		
The Switch should have following Management features from day one: Web-based GUI, CLI, Telnet Server, TFTP Client, SFTP server, SNMPv1v2cv3, SNMP trap, BooTP/DHCP Client, SNTP, NTP, debug command, RMONv1, RMONv2, Syslog, ICMPv6, DHCP server, DHCP Relay Option 60,61,61,125, LLDP, LLDP-MED, Multiple Image support, sflow, trusted host, Physical console port for Out of band management.		
OEM should have valid ISO 9001, ISO 14001 & ISO 45001:2018 certified for design and development of LAN and WAN products, all the relevant certificates must be submitted along with the bid.		
OEM Brand and company together presence in India should must be for last 20 years and OEM should have a registered office in India, from date of RFP publication.		
Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		
The OEM should have their Own service centre running & operational within the state of installation (West Bengal) with minimum manpower of 5 personals for at least last five years. Documentary evidence must be submitted along with the bid.		
The OEM must not be blacklisted or banned by any State/Central Government, Semi Government or PSU and any other GOVT. organization in INDIA and Globally.		
OEM offered must be in steady and profitable business in India at-least for each of the last 10 Financial years (FY 2012-13 to 2021-22) . Bidder shall have to submit audited Balance Sheet in support of their claim.		

WEBEL TECHNOLOGY LIMITED

SECTION- 5

Technical Specification Compliance Statement

Minimum Specification of Media Converter

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Type: Ethernet to Fiber Optic Converter **Operating Temperature:** 0 to 50 Degree **Physical Dimension:** 97 * 70* 26 mm **Mounting Type:** Wall mount - Single-Mode 10/100Base-TX to 100Base-FX, RJ45 To SC, Fiber Transceiver Up to 25KM (1 Pair)		

SECTION- 6

Technical Specification Compliance Statement

Minimum Specification of 20Km SFP Module

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Range: 20KM 1.25G 1310 Single Mode Single Fiber SFP Module - Pair		

SECTION- 7
Technical Specification Compliance Statement

Minimum Specification of 80Km SFP Module

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Type: SFP+ **Compatibility:** Multi-Vendor MSA Compatible **Tx/Rx Wavelength:** 1550 nm. / 1550 nm. **Media Type:** Single-Mode Fiber (SMF) **Optical Budget:** 23 dB **Max. Distance:** 80 km **Data Rate:** 1.25-10.31 Gbps **Temperature**: Standard 0°-70ºC		

SECTION- 8

Technical Specification Compliance Statement

Minimum Specification of PON Module

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Usage/Application: OPTICAL LINE TERMINAL USES **Phase Type:** Single Phase **Voltage:** 220 V **Frequency:** 50 Hz **Power Source:** Electric **Material:** Aluminum **Packaging Type:** Box		

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SECTION- 9
Technical Specification Compliance Statement

Minimum Specification of 4 Port OLT

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
☐ Layer 3 OLT brand		
☐ Support 10G Uplink		
☐ Support WEB, CLI and EMS		
☐ Support unify management of data		
☐ VoIP, WiFi and CATV service.		
It can support 256 ONUs under 1:64 splitter ratio.		

SECTION- 10

Technical Specification Compliance Statement

Minimum Specification of Optical Network Unit (ONU)

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification		Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Special Feature	QoS, Remote Access		
Compatible Devices	Personal Computer, Laptop, TV, Smartphone		
Frequency Band Class	Dual Band		
Antenna Type	Fixed		

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SECTION- 11

Technical Specification Compliance Statement

Minimum Specification of CAT-6 CABLE

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Cat6 U/UTP 4 pair Outdoor Cable, solid bare copper with cross filler pair separator exceeding TIA 568-C.2 standard		
Horizontal Cabling Category 6 shall be 23 AWG, 4 Pair UTP, Outdoor double jacketed		
Inner Jacket - Polyethylene (PE)		
Outer jacket - LSZH		
<14 Kg		
Tested upto 250 MHz		
7.2 mm		
305 Mtr Reel		
<=9.38 Ohms / 100 Mtr		
<45 ns		
-20 to +70 Deg C		
Must be ROHS/ELV compliant		
Offered product OEM shall be member of global TIA committee. Membership shall be available for verification at www.tiaonline.org/about/member-list		
OEM Should be ISO9001 and ISO14001 certified		
for design, Development for LAN & WAN product.		
Cabling OEM shall have ISO 9001 & 14001 manufacturing facility in India functioning for min 10 years.		

SECTION- 12

Technical Specification Compliance Statement

Minimum Specification of HDMI Cable

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)

Length: 10 m Speed: High-Speed HDMI Cable Supports : Ethernet, 3D, 4K and Audio Return, With Gold Plated connector, Material: 100% Pure Bare Cooper conductor ensure Highest quality transmission Compatible Device: Compatible with TV, COMPUTER, PHONE, PROJECTOR, MONITOR, LED, LCD, Black, One Cable)		

SECTION- 13

Technical Specification Compliance Statement

Minimum Specification of Extension USB Cable

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
• 4 in 1 Ultra Slim USB • Hub 2.0,1.2 • Meter(4 feet) Cable, • Transfer Speed of 480MBPS, Universally Compatible with All USB PC Speaker Laptop Hard Drive Keyboard Printer Pen Drive		

SECTION- 14

Technical Specification Compliance Statement

Minimum Specification of 27u Network Rack

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)

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• **Dimension**: 60 x 100 x 131 cm; 80 Kilograms • **Compatible Devices:**Server • **Batteries Included:**No • **Batteries Required:**No • **Material:**Alloy Steel • **Mounting Type:** Floor Mount	

SECTION- 15

Technical Specification Compliance Statement

Minimum Specification of Wireless keyboard & Mouse

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Colour: Black **Connectivity Technology:** USB **Special Feature**: Wireless, Ergonomic, Optical **Compatible Devices:** Computer, Laptop		

SECTION- 16

Technical Specification Compliance Statement

Minimum Specification of UPS

Qty.	28 Nos.
Make	
Model	
Part No	

Sl No	Minimum Specification		Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	UPS Capacity	**1 kVA UPS System (1Ph Input /1Ph Output)**		
2	Topology	True On-line Double Coverstion UPS		
3	Output power capacity	**.8KW (800 Watt)**		
4	**Input**			

4

4.1	Voltage Range	110 - 300 VAC based on the load percentage		
4.2	Frequency	50 Hz		
	Frequency Range	45 to 55 Hz		
4.3	Power Factor	≥ 0.99 at full load and nominal input Voltage		
4.5	Current THD	< 5%		
5	**Output**			
5.1	Voltage	230 VAC		
5.2	Voltage Regulation	+ / - 1%		
5.3	Frequency (Free Running Mode)	50 Hz ± 0.1 Hz		
5.4	Frequency (Synchronisation Mode)	45 to 55 Hz		
5.5	Harmonic Distortion (THD)	≤ 2% (linear load)		
		≤ 5% (non-linear load)		
5.6	Output Waveform	Sine wave		
5.7	Crest Factor	3:1		
5.8	Inverter Efficiency	≥ 90%		
5.9	Power Factor	0.9 Lagging		
5.10	Overload	101% - 109% for 5 minutes		
		110% - 129% for 1 minute		
		130%-150% for 10 Sec		
5.11	System DC Voltage	**≥ 36 VDC**		
6	**Battery**			
6.1	Battery Type	12 V Sealed Lead Acid Maintenance Free		
6.2	Battery make	**Exide/ Quanta with Build in Battery.**		
6.3	Battery charging	Constant Current & Constant Voltage		
6.4	Back up time	**30 Mins Backup**		
6.5	Charger	Built-in solid state float-cum-equalizing charger with		
		automatic boost / trickle charge modes with		
		current limiting features.		
6.6	**VAH Required**	**≥ 1008**		
7	**Efficiency**			
	AC/AC (overall efficiency)	≥ 85% (at full Load)		
8	**Features**			
8.1	Eco mode	Available		
8.2	Overload capacity	Available		
8.3	Converter mode	Available		
8.4	Bypass parameters configurable	Available		
8.5	Display	LCD Display		
9	**Mechanical**			
	Ingress protection	IP 20		
10.6	Bypass	Static Bypass		
10.7	Maintenance Bypass	Available		
12	**Certifications**			
12.1	**ISO 9001 : 2008**			
12.3	**ISO 14001 : 2004**			

4

12.4	**BIS Certificate**			
12.5	**PEP Certificate**			
13	**Warranty**	**3 Years on UPS & 3 Years on Battery from date of supply.**		
14	**Service purpose**	**UPS OEM should have toll free number facilities for all type service call logging support.**		
15	**Criteria**	**UPS OEM should have at least minimum 10/12 owned Service Centers across West Bengal (Where Spare & Parts stock availabe and UPS will repaire instant)**		
		UPS OEM should have single PO Copy & supplied 1000 Units Online UPS in any Govt.project through System Integrator during last 2 (two) years. .		
		UPS OEM should have 500 CR turnover consecutive last 3 financial Years		
		UPS OEM should have own Factory premises in India		

WEBEL TECHNOLOGY LIMITED

SECTION- 17

Technical Specification Compliance Statement

Minimum Specification of 43'' LED TV

Qty.	112 Nos.
Make	
Model	
Part No	

Sl. No.	Section	Parameters	Features	Specification (Quoted / Applicable – by the bidder)	Complied (Yes/ No)
1	Display	Inch	43" or higher		
2		Resolution	3,840 X 2,160 (UHD)		
3		Backlight Unit Type	Direct		
4		Brightness (cd/m2)	300 or higher		
5		Dynamic Contrast Ratio	1,000,000:1 or higher		
6		Refresh Rate	60 Hz		
7	VIDEO SYSTEM	HDR (10 Pro / HLG)	Yes / Yes		
8	AUDIO	Audio Output	10W + 10W		
9	BROADCASTING SYSTEM	Digital (Terrestrial, Cable, Satellite)	DVB-T2/C		
10	SW COMPABILITY	Control / Control Plus, CMS(Premium), Simple Editor			
11	SIGNAGE FEATURE	Vertical Setup, Fail Over, Play Via URL, NTP Server Setting, CISCO Certificated, Crestron Connected (Network Based Control), DPM (Digital Power management), Time scheduler, RTC (Real Time Clock), NTP sync timer, BEACON, Embedded CM (contents manager), Embedded GM (Group manager)			
12	SMART FEATURE	Smart Home (Launcher Bar), Web Browser, Pre-loaded App, SDP Server compatibility, Mood Display, Soft AP, WiFi (Version) (802. 11ac), Screen Share (Miracast), Smart Share, Bluetooth Audio Playback, HDMI-ARC (ARC, HDMI2), Vertical Setup, Fail Over, Play Via URL, NTP Server Setting, CISCO Certi. Compatibility			
13	KEY FEATURE	PDM / Installer Menu, One Channel Map, IP Channel Manager, External Speaker Out (Int Variable/Fixed, 3.5mm, Stereo, Single ended Type)			
14	JACK INTERFACE	Set Side	HDMI In (3 (2.0)), Headphone Out (Phone Jack Type), RS-232C(D-Sub 9pin / Phone jack) (Phone Jack, 4pin)		
15		Set Rear	USB (2.0), RF In, Digital Audio Out (Optical), External Speaker Out(3.5mm phone jack), RJ45 (Usage Purpose) (LAN)		
16	POWER	Voltage, Hz	100 ~ 240 V, 50/60 Hz		
17		Power Consumption (Typ.)	98W or less		
18		Stand-by	Under 0.5W		
19	CERTIFICATION	Standard	BIS		
20		Safety	CB / CU TR		
21		EMC	CE		
22	Warranty	3 Years			

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SECTION- 18
Technical Specification Compliance Statement

Minimum Specification of Desktop

Qty.	56 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Processor: CPU- Intel @ Core i7- 12th Gen or higher/ Equivalent AMD Memory: RAM- 16 GB DDR4-3200 M Hz or Higher Hard drive: Storage – 512 GB PCIe NVMe TM TLC M.2 SSD Operating System: Win 11 Prof, MS office Display: 24 inch 5MP FDH or Higher, IPS panel Chipset: Intel Q670 or Higher/ Equivalent AMD USB ports etc:1x HDMI, Min. 3x USB 10Gbps, Wireless Keyboard and Mouse Combo/ Intel Iris Graphics/ IR Privacy Camera Chassis:Yes Warranty:3 Years Onsite		

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Technical Specification Compliance Statement

Minimum Specification of 22'' LED MONITOR

Qty.	56 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Hardware Interface: VGA, HDMI		
Response Time: 5 Milliseconds		
Resolution: FHD 1080p		
Special Features: Flicker-Free		
Mounting Hardware: 1 Unit of Monitor, 1 Unit of adapter & cable		
Display Technology: LED		
Standing screen display size: 22 Inches		
Display Type: IPS		
Colour Screen: No		
Viewing Angle: 178 Degrees		
Image brightness: 250 cd / m²		
Aspect Ratio: 16:9		
Screen Resolution: 1920 x 1080		
Resolution: 1080p Full HD		
Wattage: 25 Watts		
Batteries Included: No		
Batteries Required : No		
Refresh Rate: 60 Hz		
Connector Type: VGA, Auxiliary, DVI, HDMI		
Mounting Type: Desk Mount		
Actual viewing angle: 178 Degrees		
Has Auto Focus: No		
Programmable Buttons: No		

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SECTION- 20

Technical Specification Compliance Statement

Minimum Specification of All in One Printer

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Product Type Laser printers		
Functions Print scan copy and fax		
Connectivity AirPrint™, Ethernet networking, USB, Wireless (Wi-Fi®)		
Connectivity, Standard 1 Hi-Speed USB 2.0; 1 rear host USB; 1 Front USB port; Gigabit Ethernet LAN 10/100/1000BASE-T network; 802.3az(EEE); 802.11b/g/n / 2.4 / 5 GHZ Wi-Fi radio + BLE		
Network Capabilities Gigabit Ethernet 10/100/1000BASE- T network; 802.11b/g/n; 2.4/5 GHZ Wi-Fi radio		
Wireless Capability Yes, built-in dual-band Wi-Fi; Authentication via 802.1X; Wi-Fi Direct; Bluetooth Low-Energy		
Mobile Printing Capability Apple AirPrint™; Mopria™ Certified; Wi-Fi® Direct Printing; Optional ROAM Queue Printing; HP ROAM For Business		
Network Protocols, Supported TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode.		
Plug And Play Auto Wireless Connect; Easy wireless setup. **Display** 6.9 cm (2.7) intuitive color touchscreen (CGD) **Display Area (Metric)** 5.4 x 4.05 cm		
Scan Speed (Normal, Letter) Up to 31 ppm (b&w), up to 21 ppm (color)		
Scan Speed (Normal, A4) Up to 29 ppm (b&w), up to 20 ppm (color)		
Cartridge & Printer heads Technology Laser		
Number Of Print Cartridges 1 (black)		
Copy Speed (Black, Normal Quality, A4) Up to 35 cpm **Copy Speed Black (Normal, Letter)** Up to 37 cpm **Copy Speed Black Duplex (A4)** Up to 31 cpm		
Copy Speed Black Duplex (Letter) Up to 33 cpm		
Power 110-volt input voltage: 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz) (Not dual voltage, product varies by part number with # Option code identifier)		

5

Digital Sending Standard Features Scan to email; Scan to PDF, Scan to computer with software		
Storage Device And Direct Print Support Wireless direct printing; Optional job storage via external rear host USB port (Minimum 16GB); Walk-up USB printing		
Duty Cycle (Monthly, Letter) Up to 80,000 pages		
Duty Cycle Note Duty cycle is defined as the maximum number of pages per month of imaged output.		
Envelope Feeder No **Functions** Print, Copy, Scan **Internal Storage** No		
Paper Trays, Maximum 3		
Duty Cycle (Monthly, A4) Up to 80,000 pages		
Paper Trays, Standard 2		
Duplex Printing Automatic (default)		
Memory Card Compatibility No		
Print Colours NO		

SECTION- 21

Technical Specification Compliance Statement

Minimum Specification of Antivirus

Qty.	**28 Set**
Make	
Model	
Part No	

Minimum Specification	**Specification (Quoted / Applicable – by the bidder)**	**Complied (Yes / No)**
• Works on: Windows 11, 10, 8.1 fully patched (32- and 64- bit) • Number of Users: 2 User ; Validity: 3 Years		

SECTION- 22

Technical Specification Compliance Statement

Minimum Specification of 16 Channel IPBEX

Qty.	**28 Nos.**
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Telephone Type: Corded **Power Source:** Corded Electric **Dialer Type:** Single Keypad • Intercom (extn. to extn. call between 8 Intercoms) • Call transfer, call hold and busy transfer • Call Pick-up form any extension		

SECTION- 23

Technical Specification Compliance Statement

Minimum Specification of Telephone IP Phone Receiver

Qty.	280 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Compatible Devices: SIP Line , IPPBX , VOIP Call **Standing screen display size:** 2.48 Inches **Display Type:** LCD **Power Source:** Corded Electric **Batteries Included:** No **Batteries Required:** No **Mounting Type:** Desktop		

SECTION- 24

Technical Specification Compliance Statement

Minimum Specification of CCTV Camera with audio

Qty.	56 Nos.
Make	
Model	
Part No	

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S.NO	Parameters	Value	Specification (Quoted / Applicable – by the bidder)	Compliance (Yes/ No)
1	Type of Camera Housing	Bullet		
2	Camera Type	IP Based		
3	Image Sensor Type	CMOS		
4	Image Sensor Size	0.370 or better		
5	Camera Image Sensing	4 MP or better		
6	Resolution	2688 x 1520		
7	Day/Night Capable	Yes		
8	IR illumination Range(mtr)	120 or better		
9	Lens Type	Fixed Iris		
10	Focal Length(mm)	3.6mm or as per the site		
11	Mount Type	M12		
12	Frame Rate (fps)	Main stream (2688 × 1520@1–25/30 fps) ; sub stream (704 × 576@1–25/30 fps) ; third stream (1280 × 720@1–25/30 fps)		
13	Video Compression	H.265 & H.264		
14	Video Streams	Tri-Stream or better		
15	Digital Zoom	10x or Better		
16	Number of Audio Input Channel	1 for external MIC / built-in Mic		
17	Number of Audio Output Channel	1 (RCA)		
18	Alarm Support	Yes		
19	Number of Alarm Input	1 or Better		
20	Number of Alarm Output	1 or Better		
22	Multi Level User ID/Password	Yes		
23	IP Address Filtering	Yes		
24	Minimum Illumination for Capturing Color Image	0.005 Lux@F1.6 Or Better		
25	Electronic Shutter Speed(sec)	1/3 s–1/100000 s		
26	WDR (Wide Dynamic Range)	120 db or better		
27	SNR (Signal to Noise Ratio)	>49 Db or better		
28	White Balance	Yes		
29	Auto Gain Control	Yes		
30	Back Light Compensation	Yes		
31	Remote Administration	Yes		
32	ONVIF Support	Profile S,Profile G		
33	Privacy Zones	4		

34	Supported Protocols	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; CGI		
35	Max supported SD Card	512 GB or better		
36	Protection	IP67 or better		
37	Mounting Type	Wall		
38	Power Input	12V DC/POE		
39	Min. Operating Temperature	-40 deg C		
40	Max. Operating Temperature	55 deg C		
41	Relative Humidity Non Condensing (%)	less than 95%RH		
42	Warranty	2years		
43	IVS	Tripwire, Intrusion (Recognition of human and vehicle)		
44	Certification	CE, FCC, RoHS, BIS, Onvif		

SECTION- 25

Technical Specification Compliance Statement Minimum

Specification of Biometric attendance Control

Qty.	28 Nos.
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Type & Connectivity: Fingerprint, card & pin authentication with Wifi connectivity. Cloud Compatible attendance device		
User Capacity: Upto 19000 fingerprint template & upto 180000 transaction capacity		
Ports: TCP/IP, Wi-Fi.		
Compatible: With Mobile app		
Display: 2.4 inch TFT Color Display		
Extra Feature: Device has to be professional door access control feature.		

MODERNIZED SECURED CONTROL ROOM

1.   **CCTV Control Room.**
1.   All the CCTV Camera feed view in TV screens & Video Wall via NVR.
11.   NVR wise Video Wall separation.
111.   Preview of CCTV Cameras.
IV.   24x7 Monitoring system.
V.   Area wise segregation.
Vl.   LAN based system.
Vll.   Secured VMS.

2.   **Media Monitoring.**
1.   TV Screens for Media Monitoring.
11.   Social Media Monitoring via Desktop.
111.   24x7 Monitoring system.

3.   **Official Works.**
1.   Official mail access in Desktop.
11.   Desktop network sharing.
111.   Printer network sharing.
iv.   Antivirus protected.

4.   **EPEBX Control Room.**
1.   Telephonic internal interaction.
11.   Remote access.
111.   Speed dial.

5.   **Security in Control Room.**
1.   Secured with Biometric Access Control Device for entrance.
11.   CCTV Camera inside Control Room.
111.   Camera with Two Way Talk Back & Motion Detection sensors.

6.   The vendor will supply all the other required materials from their own.
7.   Product requirements will vary District & Commissionerate wise.
8.   Camera brand will vary District & Commissionerate wise.
9.   VMS will vary District & Commissionerate wise.
10.   Control Room size and arrangement must vary District & Commissionerate wise.
11.   Total required qty may vary at the time of placement of order.