

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

Plot – 5, Block – BP, Sector – V,
Salt Lake, Kolkata – 700091.

NOTICE INVITING e-TENDER

Online Tender documents are invited for implementation of “**Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty**”

Bids are invited from reputed System Integrators having sufficient experience and credentials for successful completion of “Similar Nature” of work in a Central or State Government Department/PSU/Autonomous Body. WTL has been chosen as the execution authority for the same. Bidder must have adequate Service Engineer for providing on-site support service within the stipulated time as prevalent for CCTV Surveillance System setups.

1.	Tender No. & Date	WTL/HPC/CCTV/22-23/043 Dated 10.03.2023
2.	Tender Version	1.0
3.	Brief description of material	Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty.
4.	Tender Fee	Rs. 6000.00 (Rupees Six Thousand only). The amount to be transferred online through e-tender portal.
5.	Earnest Money Deposit	Rs. 4,00,00.00 (Rupees Four lakhs only). The amount to be transferred online through e-tender portal.
6.	Download start date	10.03.2023
7.	Pre-Bid Meeting date & time	17.03.2023 at 12.00 Hrs. (On-Line Meeting) <ul style="list-style-type: none">• Pre-Bid meeting will be organizing online platform only.• Only queries reaching WTL by 16.03.2023 at 15.00 Hrs. will be taken for decision.• Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting.• If there is any change in date and time then will inform.• Queries will be sent to Manager (Purchase) (purchase@wtl.co.in)
8.	Bid Submission Start date & time	27.03.2023 at 14.00.hrs
9.	Last date & time of EMD & Tender Fee submission intimation.	Before Uploading of Tender
10.	Last date & time of Bid Submission	31.03.2023 at 12.00.hrs.
11.	Date & time of Technical Bid opening	03.04.2023 at 12.00.hrs.
12.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
13.	Contact Number	033-23673403-06

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CONTENTS OF THE TENDER DOCUMENT

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- SECTION – C MINIMUM ELIGIBILITY CRITERIA
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- SECTION – E TECHNO COMMERCIAL EVALUATION & AWARDDING OF CONTRACT
- SECTION – F FORMAT FOR TECHNICAL CAPABILITY OF BIDDER
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SECTION – A

BACKGROUND & OBJECTIVE OF THE PROJECT

The selected areas of Howrah are one of the most important places in terms of Traffic / Security.

These areas become the busiest and one of the populated areas in Howrah. The purpose of this project Traffic Monitoring and Surveillance, Assist Police to Respond Faster in Case of any incidence Detection, Assist Police in Detecting Crime & Act as an Aid to Investigation, Act as a Deterrent to Crime & Traffic Violation, Prevent Crime, deployed fastest response team and Senior authority can observe and manage any Law and Order situation from a Control and Command Room.

Today, cities face a wide range of threats, ranging from terrorism and civil unrest to kidnapping and murder. To reduce the impact of these threats, it is critical for the authorities to capture real-time information on what is happening in and around the city. Therefore, there is a growing requirement for utilizing the new and emerging technologies to make our cities safer.

Given this background, one of the most user-friendly technologies that can play a crucial role is the extensive use of closed-circuit television (CCTV) cameras, which play a vital part in ensuring day-to-day surveillance, crime prevention and monitoring of illegal or suspicious activities. In addition to close supervision, CCTV cameras allow post-incident analysis and collection of indisputable legal evidence. While the government and legal authorities are also encouraging both public entities/groups and individuals to adopt such progressive technologies, mapping each and every nook and corner of a city without seeking the help of its people is impossible. This formed the basis of a unique community policing initiative called 'collaborative monitoring'.

As the very phrase suggests, collaborative monitoring is a unique tool, wherein the security and law enforcement agency takes advantage of the extensive network of surveillance cameras deployed by communities across the city as well as the cameras of other private and government establishments on a need basis. It is an extremely prudent enabler for the police department, as while they strengthen their bond with the communities, they can use any information or footage gathered from these security cameras to support investigation and the prosecution of criminals. The advantage provided by leveraging the extensive network of external cameras ensures enhanced crime monitoring through a cost-effective, widespread and scalable model.

It gives us immense pleasure to present this report, which highlights the importance of collaborative monitoring and lays emphasis on the impact and criticality of community participation in supporting our law enforcement agencies and optimizing crime prevention. Through this report, we have tried to present the collaborative monitoring framework and approach in the current surveillance scenario.

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1.	Name of Project / Initiative	Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty.
2.	Project User	Howrah City Police
3.	Execution Partner	Webel Technology Limited
5.	Location	Howrah Traffic Guard Jurisdiction
6.	Objective of the Project	<ul style="list-style-type: none">• Assist Police to Respond Faster in Case of any incident Detection• Assist Police in Detecting Crime and Act as an Aid to Investigation• Act as a Deterrent to Crime and Traffic Violation• Prevent Crime• Deployed fast response team• Senior authority can observe and manage any Law and Order situation from the Control and Command Room
7.	Scope of the Project	Selected System Integrator will provide End to End solution like as a turnkey project as per the given specification.
8.	Period of Project	5 years comprehensive warranty (5 years comprehensive products & installation warranty from the date of go-live)
9.	Project Completion Period	Two Months for Supply of materials and One Month for Installation & Commissioning from the date of PO.

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CCTV Footage can help in Crime investigation and Prevention

There are various ways in which surveillance cameras can help in detecting the commission of a crime and in the investigation conducted by the police in the event that a crime is committed:

- The footage can be used to identify the suspects, witnesses, as well as the vehicles involved in the crime.
- The police can examine the behaviour of the suspects before, during, and after an incident or the commission of a crime
- The investigators can use the footage to look for clues that point to forensic opportunities.
- Detectives can use the footage to establish the timeline of an incident or a crime.
- The footage can be utilized to determine the entry and exit points from the scene of the crime.
- The police can use the footage to verify the accuracy of the statements of both the suspects and the witnesses of a crime.
- CCTV is efficient, as police officers can often monitor the activities of individuals or areas from a central headquarters rather than conducting foot or car patrols.
- In abduction cases, the video footage would be a vital source of information to track down a person quickly and possibly save the life of the abducted individual.

Some benefits of using CCTV video during a crime investigation:

- The use of the footage as evidence of an offense or crime could result in a guilty plea of the suspects, reducing costs by avoiding court trials.
- The videos can be used to prove or disprove allegations against a person.
- The footage could be used in the investigations of a missing individual or person.
- The videos can be used as a source of material backup for witness testimony.

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SECTION – B

SCOPE OF WORK & BILL OF MATERIAL

The following section provides summarized details of the project detailed mentioned

1.1 PROJECT SCOPE

“Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty.

The System Integrator is responsible for end-to-end execution of the turnkey project from procurement of Software and Hardware Items, Installations and commissioning and making necessary arrangement for feeding data from these cameras and analyzing the data through application and presenting the dashboard for easy decision making. The solution should also be capable of generating Status reports, duration of the day, date wise etc.

The SDK and API should be available for third party integration as on demand.

The System integrator needs to conduct a periodic preventive Checking of the entire system and prepare a monthly report. A quarterly periodic maintenance should be organized and report to be submitted to Howrah Police Authority.

Existing infrastructure (Like Poles, Clamps) should be used to install the camera and other accessories to reduce the project cost and increase the feasibility

- 1) Identify the hardware equipment, network components (passive and active) and software solutions implemented, for make, model and Integration.
- 2) The study also aimed to identify the complexity for smooth Integration, support requirement for next 5 years, and to identify ways and means to reduce complexity for both the HPC and the implementation partner WTL.

The scope of the project shall include:

- **Final Inspection of Sites** - Project Management & Installation team must visit all the proposed CCTV Locations for details final site inspection and understanding about present site status location wise, pole installation, camera installation, power availability, junction box installation.
- **Joint site visit with HPC authority** – SI After receiving the PO from WTL, shall be required to finalize the exact location.
- **Supply and Material Delivery** – System Integrator shall prepare and supply the

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materials as per the BOQ for CCTV, Network equipment, Storage, Servers, Workstations and all items and accessories required at HPC. The items may be delivered in multiple phases.

- ❖ **Phase 1** – Delivery of all network cables, accessories for power, all passive components as per the BOQ within 4 Weeks.
- ❖ **Phase 2** – Delivery of all active components and hardware, software items, such as CCTV, Active network components, storage system, servers and workstations and display unit within 8 weeks.

• **Installation scope**

- ❖ **Pole & Junction Box Installation** - As per the requirement of each site condition, Pole & Junction box will be installed simultaneously.
- ❖ **Location Wise Cable Laying** – SI shall start to lay the cable from Cameras to Junction Box as per the requirement of each site
- ❖ **OFC Termination Backbone path** - This is the most critical work for this project. SI shall plan and implement proper termination of Network Backbone OFC.
- ❖ **Installation of Servers at Control Room Setup** - Installation & Commission work will be done by SI under this phase for all servers, storage & related software.
- ❖ **IP Assignment & V Lan Management work** – Network Planning & IP Configuration and design of V-Lan as per requirement for proper network management. The SI shall prepare the IP Assignment plan and VLAN design (if any) and submit to WTL for implementation.

• **Testing and Commissioning Scope**

- ❖ **Link Testing** – SI shall perform the link testing for each & every location point from Control Room.
- ❖ **Installation & Commission of Junction Box Equipment** – SI shall install & Commission Junction Box Equipment, such as, UPS, Switch, MCB etc.
- ❖ **Control Room Setup** – SI shall install & configure the Client Monitoring Work Station, Display & Client Software with necessary configuration.
- ❖ **Camera Installation** - SI shall install the cameras after completion installation work at each location point as soon as there is availability of resources. (Electricity, Network Backbone etc)
- ❖ **Cameras Configuration & Adjustment** – SI shall Install & Configure the Cameras as well as final adjustment as per Police Department requirement.
- ❖ **Final Acceptance Testing & Adjustment** – Joint acceptance testing, demonstration and necessary adjustment based on the feedback, inputs received from customer, prior to

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handover of system.

- **Training & Documentation** - SI shall prepare and train HPC nominated representative for Systems operation.
- **Go-Live & Handover** - On the date of Go-Live SI and WTL shall formally hand over the system to the client for to complete official Go-Line formalities.
- **Support and Maintenance**
 - ❖ Warranty support requirements for all items shall be governed by the scope of work for warranty support mentioned in Section B clause 1.8.
 - ❖ OEMs/Authorized partners must follow the process for installation, call logging, call resolution and support management specified as part of the scope of work.

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List of Sites – Camera location

The New requirement survey was conducted by the WTL team and following the locations where the camera installation will take place. Location Wise Site Survey Report.

Sl. No	Name of Unit	Name of Place
1	Howrah PS / TG	Jugnu Club
2		Moyra Babu Mistri Shop, opposite to Khan Saheb Kothi, Belilious Road
3		MC Ghosh Lane near Hazi Nagar Club
4		East West By Pass near Hazi Nagar Club
5		Bajrang Seva Samity
6		Ashu Bose Lane & Belilious Lane Crossing
7		Sir Syed Ahmed High School Eastern Side
8		Tikia Para TOP

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Location wise details where CCTV will be deployed

Sl. No	Name of Unit	Name of Place	Lat	Long	Under TG
1	Howrah PS	Jugnu Club	22.584961	88.333523	Howrah
2		Moyra Babu Mistri Shop, opposite to Khan Saheb Kothi, Belilious Road	22.591001	88.331564	
3		MC Ghosh Lane near Hazi Nagar Club	22.588488	88.333563	
4		East West By Pass near Hazi Nagar Club	22.593601	88.331783	
5		Bajrang Seva Samity	22.595751	88.330331	
6		Ashu Bose Lane & Belilious Lane Crossing	22.592248	88.328716	
7		Sir Syed Ahmed High School Eastern Side	22.592815	88.332209	
8		Tikia Para TOP	22.591887	88.329785	

Camera Location, GIS & Camera Breakup Details

Sl. No	Name of Unit	Name of Place	Lat	Long	Total Camera	Type of Camera		
						Bullet VF	Box	PTZ
1	Howrah PS	Jugnu Club	22.58496	88.33352	2		2	
2		Moyra Babu Mistri Shop, opposite to Khan Saheb Kothi, Belilious Road	22.591	88.33156	1	1		
3		MC Ghosh Lane near Hazi Nagar Club	22.58849	88.33356	2		2	
4		East West By Pass near Hazi Nagar Club	22.5936	88.33178	3	1	2	
5		Bajrang Seva Samity	22.59575	88.33033	2		2	
6		Ashu Bose Lane & Belilious Lane Crossing	22.59225	88.32872	3	1	2	
7		Sir Syed Ahmed High School Eastern Side	22.59282	88.33221	2		2	

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8	Tikia Para TOP	22.59189	88.32979	2	2	
Total				17	3	14

1.2 BILL OF MATERIALS (BOM)

BILL OF MATERIALS - HOWRAH TRAFFIC GUARD

SL.	DESCRIPTION	UNIT	QTY.
1	Bullet Camera - 5 Megapixel IR Vari-focal Bullet Network Camera, 2.7 mm–13.5 mm Motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10.	Nos	3
2	Box Camera - 5 Megapixel CMOS Image Sensor Box Type Network Camera, WDR (120 dB), Support Micro SD memory.	Nos	14
3	6 Megapixel 5-50mm Vari-focal Lens, Support IR Correction	Nos	14
4	Vandal-Proof Housing for Box Camera, IR Range 100 Meter, IP67 & IK10.	Nos	14
5	Mount Bracket for Box Camera	Nos	14
6	General Surveillance Management Server & Storage system for Traffic Guard	Nos	1
7	Central Video Monitoring Software	Nos	1
8	Video Monitoring Camera Client License	Nos	17
9	8 TB Sata Surveillance / Enterprise HDD	Nos	4
10	Layer 2 Gigabit Ethernet Rugged Industrial Grade Managed switch with 8x 10/100/1000BaseT PoE / PoE+ Ports & 2x combo 10/100/1000BaseT ports/SFP slots. - 40°C~75°C operating temperature.	Nos	8
11	Power Supply for Industrial PoE Switch	Nos	8
12	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	8
13	49" UHD 4K Display, Operation Hours 24	Nos	1
14	Client Workstation - 9th Generation Intel Core i7 processor, 16 GB DDR4 RAM, Dedicated Non-Shared 2 GB NVIDIA Graphics Card, Operating System Latest , 64 Bit Installed.	Nos	1
15	Wireless Key Board and Mouse with USB Extension Cord	Nos	1
16	4K 5 Meter Length DP Cable with Mini DP Convertor	Nos	1
17	27U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1
18	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	1
19	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots	Nos	1

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20	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots	Nos	1
21	License for Core Switch (Standard Image to Enhanced Image license)	Nos	2
22	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	40
23	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	4
24	Single Mode SC Pigtail - 1Mtr	Nos	24
25	LC - LC SM FO Patch Cord 5 Meter Length	Nos	35
26	SC - LC SM FO Patch Cord 2 Meter Length	Nos	2
27	FOC TJ Box (Ballon Type)	Nos	30
28	3 KVA/2.4kW 1-Phase Input / 1-Phase Output with IGBT Rectifier	Nos	1
29	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	6
30	600 VA Offline UPS	Nos	10
31	32 Amp Power Socket with MCB	Nos	2
32	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	14
33	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	1
34	Wall / Pole Mount Outdoor Camera Bracket with Junction box for Camera	Nos	17
35	Power Failure identification Sensor	Nos	8
36	Installation, Commissioning and Configuration of Power Failure Indication system.	Lot	1
37	RJ-45 Connector	Nos	40
38	UTP CAT-6 Patch Cord 2 Meters	Nos	2
39	UTP CAT-6 Patch Cord 5 Meters	Nos	3
40	Outdoor UTP CAT-6 Cable	Meter	1525
41	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	1500
42	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	270
43	2 Core 0.5 sq mm No Armoured Cable for Sensor Connectivity	Meter	400
44	Fiber Optic Cable - 6 Core Armoured Outdoor.	Meter	750
45	Fiber Optic Cable - 12 Core Armoured Outdoor.	Meter	1250
46	Fiber Optic Cable - 24 Core Armoured Outdoor.	Meter	5000
47	20 MM Non-ISI PVC straight Pipe or 3/4" PVC Casing with all accessories for Outdoor Wiring	Meter	3000
48	Overhead and Surface Cable Laying Charge	Meter	10695
49	Splicing Charge for OFC Cable	Lot	1
50	Dedicated Earth pit at Control Room location with 300mm x 300mm copper plate thickness of 3mm with 6ft GI pipe striping with 25x3mm copper and filling the same with Chemical & Sand.	Nos	1
51	Network Management, V LAN Configuration, IP assignment, Database Creation along with Network Backbone	Lot	1
52	Design, Planning & Execution Charge for OFC Network	Lot	1

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53	Supply, Installation, Testing, Commissioning & Project Management Cost During 5 Years Comprehensive Warranty	Lot	1
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BILL OF MATERIALS - CONTROL ROOMS

SL.	DESCRIPTION	UNIT	QTY.
1	General Surveillance Management Server & Storage system for Central Control	Nos	2
2	Central Video Monitoring Software	Nos	1
3	Video Monitoring Camera Client License	Nos	200
4	8 TB SATA Surveillance / Enterprise HDD	Nos	24
5	49" UHD 4K Display, Operation Hours 24	Nos	9
6	Client Workstation - 9th Generation Intel Core i7 processor, 16 GB DDR4 RAM, Dedicated Non-Shared 2 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed.	Nos	9
7	Wireless Key Board and Mouse with USB Extension Cord	Nos	9
8	4K 5 Meter Length DP Cable with Mini DP Converter	Nos	9
9	42U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1
10	27U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1
11	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	3
12	Cabinet / Rack for Workstation staging	Nos	2
13	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots	Nos	3
14	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots	Nos	4
15	License for Core Switch (Standard Image to Enhanced Image license)	Nos	7
16	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	96
17	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	6
18	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 50km, support)	Nos	4
19	Single Mode SC Pigtail - 1Mtr	Nos	72
20	LC - LC SM FO Patch Cord 5 Meter Length	Nos	36
21	SC - LC SM FO Patch Cord 2 Meter Length	Nos	10
22	FOC TJ Box (Ballon Type)	Nos	10

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23	10 KVA 1-Phase Input / 10 KW 1-Phase Output DSP Controlled IGBT Rectifier	Nos	1
24	120 Mins Backup 12 V, 100 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	20
25	6 KVA 1-Phase Input / 6 KW 1-Phase Output DSP Controlled IGBT Rectifier	Nos	2
26	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	32
27	32 Amp Power Socket with MCB	Nos	4
28	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	2
29	UTP CAT-6 Patch Cord 5 Meters	Nos	305
30	Outdoor UTP CAT-6 Cable	Meter	10
31	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	100
32	6 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	810
33	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	540
34	20 MM Non-ISI PVC straight Pipe or 3/4" PVC Casing with all accessories for Outdoor Wiring	Meter	100
35	Overhead and Surface Cable Laying Charge	Meter	1460
36	Splicing Charge for OFC Cable	Lot	2
37	Dedicated Earth pit at Control Room location with 300mm x 300mm copper plate thickness of 3mm with 6ft GI pipe striping with 25x3mm copper and filling the same with Chemical & Sand.	Nos	2
38	Network Management, V LAN Configuration, IP assignment, Database Creation along with Network Backbone	Lot	1
39	Design, Planning & Execution Charge for OFC Network	Lot	2
40	2 Ton Split Inverter AC 3 Star Copper	Nos	6
41	24 X 7 Automatic Changeover switch for Control Room	Nos	2
42	Supply, Installation, Testing, Commissioning & Project Management Cost During 5 Years Comprehensive Warranty	Lot	1

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SUPPLY OF EQUIPMENT

The following are the key requirements under the scope of the contract:
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- Propose the make, model and detailed specification, meeting the minimum requirements, for each type of equipment for each item in the BoQ.
- SI must indicate a firm price for each item quoted, inclusive of GST rates prevailing. SI must provide prices for all items for type of equipment listed in the BOQ.
- OEMs must authorize the SI for bidding the project, with MAF (enclosed format), for the purpose of supply, installation and support for each type of equipment for Camera, Server, Network (Active/Passive), Servers, Work Stations, UPS, Displays.
- The OEM/SI may be penalized/blacklisted, in case the supply or installation, delivery of support services is not as per the requirements. Integration of all CCTV components supplied existing system with the New installation is a pre-requisite and any deviation to the requirement shall lead to penalty/black-listing of the SI/OEMs.
- All items quoted shall be provided with onsite warranty, and OEMs/Authorized partners must adhere to the support and maintenance process and SLAs, specified in this section.
- The scope of work for the supply and maintenance of the items to be supplied under the scope of this contract shall be applicable to OEMs and authorized partners for implementation of the project.

1.3 REPAIR CENTER

Repair center will be available from OEMs in Kolkata for rectification of faults and will ensure repair center must complete proper repair and send back the item within 3 to 4 days to ensure healthy stock status, as part of SLA. In case of any delay, the OEM must arrange for replacement of the faulty item.

1.4 SERVICE & SUPPORT INFRASTRUCTURE SETUP IN KOLKATA.

The successful bidder (contractor) shall have the required services and support setup, with qualified manpower and adequate spares to ensure delivery of the support services as per the SLA required, in Kolkata/Howrah. Details of existing setup, manpower and location, must be provided with documentary proof, for the purpose of technical evaluation of bid.

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WARRANTY MAINTENANCE & SLA

The OEMs and their authorized partners must adhere to the support and comprehensive maintenance support required onsite. The OEM/authorized partners must have their own call center, support management system and support center in Kolkata to adhere to the following SLA.

- The supplied equipment must be provided with comprehensive onsite warranty support for minimum 5 years. During the 5 years, the following SLAs must be adhered to:
- Calls must be attended within 24 hours of logging of complaint / reporting.
- Call resolution within 48 hours of logging of complaint.
- Penalty amount - per day (working day) for each day after the expiry of the 24-hr. window for complaint resolution shall be applicable as per the SLA specified in the tender document.
- The maximum penalty shall not exceed 3% of the value of the equipment supplied under any circumstances, failing which the PBG of the implementation partner may be forfeited, based on the decision of WTL Management.
- The OEM/Partner shall provide a maintenance portal for tracking of complaints/issues, updating of call resolution status and monitoring of the SLAs. The WTL support manager shall coordinate with the partner field personnel for escalation of issues to ensure speedy resolution.
- A SLA shall have to be signed between WTL and SI ensuring 24 X 7 service to maintain 99.9% uptime of the system its entirely.

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SECTION – C

MINIMUM ELIGIBILITY CRITERIA

- A) To Pre-qualify all the CCTV & VMS OEM's Equipment's should satisfy the Eligibility Criteria mentioned below:**
- 1) All CCTV Equipment's (Surveillance Camera & Server) should be from a single OEM (Original Equipment Manufacturer) and components must comply with CE, FCC, UL / BIS certifications.
 - 2) The CCTV OEM should be from reputed Global OEM being listed among TOP 5 vendors Globally as per latest IHS report. (Supporting document is required)
 - 3) In case the CCTV OEM is not participating directly, then the bidder should be a System Integrator or channel partner of the OEM. A project specific authorization letter from the OEM need to be submitted in original. (Tender No should be written on their MAF)
 - 4) The CCTV OEM should have own online-dedicated support centre available during working hours and a fully equipped repair and maintenance office in India (Preferably within Kolkata / West Bengal). This is to be supported with documentary evidence.
 - 5) The CCTV OEM should have direct presence in India since last 5 Years (not as joint venture, partnership firms or through any other association). 100% Subsidiary firm will be also consider for direct presence. Documentary evidence such as copy of ROC to be submitted.
 - 6) The CCTV OEM should have its own service centre (not through joint venture, partnership firms or through any other association). 100% Subsidiary will be also consider for direct presence.
 - 7) Quoted CCTV OEM should be member of ONVIF and same will cross check online in ONVIF Website.
 - 8) The VMS OEM should have CMMI certification of Level 5. (Certificate should be attached).
 - 9) The CCTV OEM Should have ISO – 9001, 14001, 27001 Certification. (Certificate should be attached.)
 - 10) The CCTV OEM need to confirm that the equipment, like Cameras etc., shall not be installed with standards like - GB28181, GB/T28181-2011, GB/T 28181-2011, GBT 28181- 2011, GBT28181- 2011, GB/T28181-2016, etc., protocols/standards and there shall be no option in the camera web page/settings to activate or deactivate such protocols / standards any of their version(s) or any such protocol which allow certain organizations to bypass all security parameters and look into the devices directly. Declaration on OEM letter head needs to this effect to be submitted along with technical documents.
 - 11) MAC address of Camera should be registered in the name of OEM who are supplying the Cameras.
 - 12) The CCTV OEM should not be blacklisted or barred by any Ministry of Government of India or globally or any of the Government / PSUs or any other government department at the time of bidding. The OEM should not have any common directors who are also on the board of blacklisted

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companies.

13) Certificate of Non-Obsolescence: OEM must provide a certificate that the proposed model of CCTV products must not become obsolete within a period of 10 years, in case it gets EOL due to technology advancement then OEM will support with equivalent or higher model. Also, any product which is nearing the End-of- Sale (EoS) must not be proposed in the solution.

B) To Pre-qualify Passive & Active (Network) OEM's Equipment should satisfy the Eligibility Criteria mentioned below:

- 1) All Core switches, PoE Switch & SPF module, Cables, Patch Cord should be from same OEM.
- 2) Active components OEM Brand and company together presence in India should be at least for last 20 years.
- 3) OEM should have own service center/replacement center in West Bengal. (Documentary proof/OEM letter head declaration, along with address & GST Number need to be submitted along with the bid)
- 4) 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.
- 5) 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.
- 6) OEM should have valid ISO/IEC 27001: 2013 Information Security Management System Certification. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid
- 7) OEM should have 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.
- 8) OEM should have Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.
- 9) OEM should not have filed for bankruptcy and should have profitable balance sheet for at least each of the last 10 (ten) consecutive financial years.

C) To Pre-qualify Network Rack OEM's Equipment should satisfy the Eligibility Criteria mentioned below:

- 1) Rack OEM Brand and company together presence in India should be at least for last 20 years.
- 2) OEM should have own service center/replacement center in West Bengal. (Documentary proof/OEM letter head declaration, along with address & GST Number need to be submitted along with the bid)

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- 3) 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.
- 4) OEM should have 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.
- 5) OEM should not have filed for bankruptcy and should have profitable balance sheet for at least each of the last 10 (ten) consecutive financial years.

D) To Pre-qualify all the UPS OEM's should satisfy the Eligibility Criteria mentioned below:

- 1) Online UPS OEM should have ISO 9001, ISO14001, OSHAS18001, TL9000, Factory calibration lab of manufacturer shall be NABL accredited in India.

E) Others General Criteria:

- 1) All Type of Surveillance Camera & Surveillance Management Server should be from a single OEM (Original Equipment Manufacturer) for seamless integration with Video Monitoring software (Documentary proof / OEM letter head declaration needs to be submitted along with the bid).
- 2) OEM Authorization Certificate (MAF) is mandatory for All type of Cameras, Surveillance Management Server (VMS), Network Active & Passive components, all type of UPS, Display and Client Workstation. NIT Number should be clearly mentioned on MAF (Manufacturer Authorization Form).
- 3) Existing Infrastructure will be used for Camera installation purpose.
- 4) Provision for seamless integration with upcoming CCTV Surveillance System under HPC Surrounding Area with same hardware & software.

F) BIDDERS' ELIGIBILITY CRITERIA

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder must be a System Integrator in IT/ ITes/ ICT /CCTV sector. Relevant document to be submitted.
3. The bidder should have been operating for the last 5 years in India. Certificate of Incorporation and/ or Certificate of Commencement of Business issued by the Registrar of Companies/ Partnership Registration/ sole proprietorship registration under the Shops & Establishments Act / Trade License to be submitted.
4. The bidder must have their Registered/ Branch office in West Bengal (Preferably in Kolkata). Valid trade license and local GST Registration Certificate are to be submitted.

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5. The bidder should have valid GST Registration Certificate & PAN Card. Bidder shall have to submit photocopy of the documents.
6. The bidder shall have an order of “Similar Nature” of single order an amount not less than Rs.2.00 (Two Crore) in last 05 (Five) financial years (considering FY – 2017-18, 2018-19, 2019-20, 2020-21 & 2021-22) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.

OR

The bidder shall have orders of “Similar Nature” of two order for an amount of total not less than Rs.2.50 Cr (Two Crore Fifty Lacs) in last 05 (Five) financial years (considering FY – 2017-18, 2018-19, 2019-20, 2020-21 & 2021-22) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.

OR

The bidder shall have orders of “Similar Nature” of three order for an amount of total not less than Rs. 3.00 Cr (Three Crore) in last 05 (Five) financial years (considering FY – 2017-18, 2018-19, 2019-20, 2020-21 & 2021-22) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.

7. The bidder should have a minimum average annual turnover of not less than Rs. 10.00 Crore each year in the last 3 financial year (2019-20, 2020-21 & 2021-22). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
8. Bidder should have Positive net worth for last 03 (Three) financial years (From FY 2020-21, 2019-20, 2018-19).
9. The bidder must submit the Manufacturers Authentication Form (MAF) for All type of Cameras, Surveillance Management Server (VMS), Network Active & Passive components, all type of UPS, Display and Client Workstation. as per prescribed format enclosed (Section - N), along with Technical Compliance statements. Without these documents from the OEMs, the offer will be treated as non-responsive and summarily may be rejected.
10. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral / multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.
11. The bidder shall submit Bid Form (Section – K) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
12. Bidder shall submit NIT Declaration (Section - R) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.

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SECTION – D

INSTRUCTION TO BIDDER

1. DEFINITIONS

In this document, the following terms shall have following respective meanings:

“Agreement” means the Agreement to be signed between the successful bidder and WTL including all attachments, appendices, all documents incorporated by reference thereto together with any subsequent modifications, the Enquiry, the bid offer, the acceptance and all related correspondences, clarifications, presentations.

“Acceptance Test Document” means a document, which defines procedures for testing the functioning of installed system. The document will be finalized with the contractor within 7 days of issuance of the Letter of Award.

“Bidder” means any firm offering the solution(s), service(s) and /or materials required in the RFP. The word Bidder when used in the pre-award period shall be synonymous with Bidder, and when used after award of the Contract shall mean the successful Bidder.

“Contract” is used synonymously with Agreement.

“Contract Price” means the price to be paid to the Contractor for providing the Solution, in accordance with the payment terms.

“Contractor” means the Bidder whose bid to perform the Contract has been accepted by Tender Committee and is named as such in the Letter of Award.

“Default Notice” mean the written notice of Default of the Agreement issued by one Party to the other.

“Installation” means installation of supplied Hardware & Software.

“Fraudulent Practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive WTL and eventually Departments of Gov. of W. Bengal of the benefits of free and open competition.

“GoWB” means Government of West Bengal.

“HPC” means Howrah Police Commissionerate

“WTL” means Webel Technology Limited

“Personnel” means persons hired by the Bidder as employees and assigned to the performance of the Infrastructure Solution or any part thereof.

“Similar Nature of Work” means Supply, Installation, Testing and Commissioning of any CCTV Surveillance project for any Govt. Departments or Public Sector Undertakings.

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“Project” “Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty (location - Traffic Control Room & City Control Room setup + Howrah Traffic Guard Jurisdiction area)”

“Services” means the work to be performed by the Bidder pursuant to this Contract, as described in the detailed Scope of Work.

“Interest rate” means “364 days Government of India (GoI) Treasury Bills” rate.

“Law” shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Central Government and/or the Government of West Bengal or any other Government or regulatory authority or political subdivision of government agency.

“LOI” means issuing of Letter of Intent shall constitute the intention of the WTL to place the Purchase Order with the successful bidder.

“Requirements” shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.

“Service” means provision of Contracted service viz., operation, maintenance and associated services for DEPLOYED SYSTEMS as per Section titled “Scope of Work”.

“Termination Notice” means the written notice of termination of the Agreement issued by WTL.

“Uptime” means the time period when specified services are available with specified technical and service standards as mentioned in section titled WARRANTY SUPPORT” %**Uptime**” means ratio of 'up time' (in minutes) as mentioned in section titled “Warranty support”.

“Service Down Time” (SDT) means the time period when specified services with specified technical and operational requirements as mentioned in section titled “WARRANTY SUPPORT” are not available to Gov. of W. Bengal and its user departments and organizations.

1. PRE BID MEETING

Pre Bid Meeting will be held on 17.03.2023 at 12.00 hrs. (On-Line Meeting) at premises of WTL. Bidder can send their queries as per format (Section - S) to Manager (Purchase) (purchase@wtl.co.in). Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. The entrance to the Pre Bid Meeting will be limited to two persons per bidder.

2. BID DOCUMENT

Bidder is expected to examine all instructions, forms, terms and requirement in the bid document. The invitation to bid together with all its attachment thereto shall be considered to be read, understood and accepted by the bidder unless deviations are specifically stated in the seriatim by the bidder. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result of the bid.

3. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, WTL reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who have been issued the

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tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

4. MODIFICATION AND WITHDRAWAL OF BIDS

The bidder cannot modify or withdraw its bid after submission.

5. LANGUAGE OF BID & CORRESPONDENCE

The proposal will be prepared by the Bidder in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & WTL will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

6. BIDDER'S SOLUTION

The bidders are requested to study the Bill of Material supplied with this document carefully. While working out the solution the bidder has to work with the broad minimum specification provided in the tender documents, conforming to the model, make and Part number (wherever provided). While submitting the bid the bidder has to detail out all components needed to complete the system BOM. The bidder is required quote for each item retaining all major components/sub system detailed and specified. As the contractor will be responsible for smooth functioning of the system, availability of spares during the tenure of the warranty period have to be take care by the contractor to maintain the guaranteed uptime.

7. FORMS AND FORMATS

The various inputs for the Techno Commercial as Financial Bids are to be submitted in the format specified. The bidder shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

8. LACK OF INFORMATION TO BIDDER

The bidder shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the bidder of his responsibility to fulfill his obligation under the bid. If bidder has any queries relating to bid document, then he can send the queries before the Pre Bid Meeting.

9. CONTRACT EXECUTION

On receipt of the Letter of Award/Purchase Order the contractor should submit a Performance Bank Guarantee (PBG) equivalent to **3% of the total contract value** within three weeks from the date of receipt of Letter of Award/Purchase Order. The PBG should be valid for three months more than the warranty period. SITC has to be done within three months from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

10. TIME SCHEDULE FOR DELIVERY & INSTALLATION

Maximum 02 (Two) months for Supply and 01 (One) month for Installation & Commissioning.

11. LOCATION FOR DELIVERY & INSTALLATION

Delivery location and installation sites will be given with PO.

11. LIQUIDATED DAMAGE / PENALTY

Hardware: LD clause:

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- a. 0.5% of the total Hardware bill value of this segment for every 168 hours delay in meeting the delivery schedule
 - b. 1.0% of the total year wise SLA bill value for the Hardware segment for every cumulative machine-hour (machine x hour) fault rectification delay beyond the response time fixed in the SLA
 - c. The maximum deductible is capped at 10% of the total year wise SLA value.
- Vendor Termination Clause: -
- i. Termination possibility of SI in the case of multiple cases of failure to meet SLA terms beyond monthly commitments for 6 continuous months.

WTL reserves the right to terminate the contract and WTL will get the job completed by any other competent party. The difference of cost incurred by WTL will be recovered from the contractor and PBG will be invoked.

12. LIABILITY

In case of a default on bidder's part or other liability, WTL shall be entitled to recover damages from the Contractor. In each such instance, regardless of the basis on which WTL is entitled to claim damages from the Contractor (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), Contractor shall be liable for no more than:

- Payment referred to in the Patents and Copyrights clause.
- Liability for bodily injury (including death) or damage to real property and tangible personal property limited to that cause by the Contractor's negligence.
- As to any other actual damage arising in any situation involving non-performance by Contractor pursuant to or in any way related to the subject of this Agreement, the charge paid by WTL for the individual product or Service that is the subject of the Claim. However, the contractor shall not be liable for
- For any indirect, consequential loss or damage, lost profits, third party loss or damage to property or loss of or damage to data.
- For any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contractor hereunder.

13. SUSPENSION OF WORK

WTL shall have the power at any time and from time to time by notice to the Contractor to delay or suspend the progress of the work or any part of the work due to any other adequate reasons and on receipt of such notice the contractor shall forthwith suspend further progress of the work until further notice from WTL. The Contractor shall recommence work immediately after receiving a notice to do so from WTL. The whole or any part of the time lost for such delay or suspension shall, if WTL in its absolute discretion thinks fit, but not otherwise, be added to the time allowed for completion.

14. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from customer. A scheduled payment for the supply, installation and warranty only, shall be made on back to back basis, by WTL, as depicted below:

- a. 60% of Total Project Value on Material Delivery.
- b. Balance 40% of Total Project Value on Successfully Go-Live / Handover of the complete system.

15. GOVERNING LAWS

This contract should be governed by and interpreted by Arbitration clause in accordance with Laws in force in India. The courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract. The selected vendor shall keep himself fully informed of all current national, state and municipal law and ordinances. The selected vendor shall at their own expense, obtain all necessary permits and

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license and pay all fees and taxes required by law. These will be selected vendor's entire obligation regarding any claim of infringement. The selected vendor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The selected vendor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

16. CORRUPT OR FRAUDULENT

The Tender Committee requires that the bidders under this Tender observe the highest standards of ethics during the procurement and execution of such contracts. For this purpose, the definition of corrupt and fraudulent practices will follow the provisions of the relevant laws in force. The Tender Committee will reject a proposal for award if it detects that the bidder has engaged in corrupt or fraudulent practices in competing for the contract in question. The Tender Committee will declare a firm ineligible, either indefinitely or for a stated period of time, if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

17. BINDING CLAUSE

All decisions taken by the Tender Committee regarding the processing of this tender and award of contract shall be final and binding on all parties concerned.

The Tender Committee reserves the right:

- To vary, modify, revise, amend or change any of the terms and conditions mentioned above and,
- To reject any or all the Tender/s without assigning any reason whatsoever thereof or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

18. WORKMEN'S COMPENSATION

In every case in which by virtue of the provision of the workmen's compensation Act 1923 or any other relevant acts and rules, compensation to a workman employed by the contractor, is payable, then this should be done by the Contractor. If WTL is obliged to make any compensation under the said rules and acts, then the amount shall be recovered without prejudice, from the bills and due of the Contractor. WTL shall not be bound to contest any claim made against the Contractor in respect of workmen's compensation.

19. CONTRACTOR'S EMPLOYEES

The Contractor shall comply with the provision of all labor legislation including the requirement of the payment of Wage Act 1936 and the rules framed there under and modifications thereof in respect of men employed by him in carrying out the contract. The Contractor must ensure that he complies with PF, ESI regulation for all his deployed employees. The Contractor shall see that all authorized Sub Contractors under him similarly complied with the above requirement.

20. SAFETY MEASURES

The Contractor shall in the course of execution of the work take all necessary precaution for the protection of all persons and property. The Contractor shall take adequate measures to protect the work and prevent accident during the work. In the event of any accident to any person or persons or damage or injury of any description to any person or property due to failure on the part of the contractor in taking proper precautionary measures the contractor shall be responsible for and must make good the loss the damage at his own cost to the satisfaction of the department and employees of the department shall be indemnified from all claims or liabilities arising there from or any expenses incurred on account thereof.

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21. EQUIPMENT

All tools & tackles necessary for the work shall have to be procured by the contractor unless otherwise specified elsewhere in these tender documents. The equipment used by the contractor for a particular work must be appropriate for the type of work. The contractor shall maintain the equipment used on the work properly so that they are in good working condition. In no case shall the contractor use defective or imperfect equipment in the work. The contractor shall arrange to replace or repair all defective equipment so that the progress of the work is not hampered. No defective equipment should be left at the site of work and the department shall not be responsible for any loss or damage to any of this equipment during the course of the execution of the work.

22. JOINT VENTURE /CONSORTIUM

The purchaser (WTL) does not recognize the Joint Venture / Consortium partner. The Contractor's responsibility is not transferable.

23. TERMINATION FOR DEFAULT

WTL may without prejudice to any other remedy or right of claim for breach of contract by giving not less than 30 days written notice of default sent to the contractor, terminate the order in whole or in part. If the contractor materially fails to render any or all the services within the time period specified in the contract or any extension thereof granted by WTL in writing and fails to remedy its failure within a period of thirty days after receipt of default notice from WTL. If the project (delivery, commissioning as well as warranty maintenance support is not carried out according to specification due to deficiency in service as per terms of the contract. In such case WTL will invoke the amount held back from the contractor as PBG.

24. BANKRUPTCY

If the contractor becomes bankrupt or have a receiving order made against him or compound with his creditors or being a corporation commence to be wound up, not being a voluntary winding up for the purpose only or amalgamation or reconstruction, or carry on their business under a receiver for the benefit of their creditors or any of them, WTL shall be at liberty to terminate the engagement forthwith without any notice in writing to the contractor or to the liquidator or receiver or to any person in whom the contractor may become vested and without any compensation to give such liquidator or receiver or other person the option of carrying out the engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by WTL.

25. FORCE MAJEURE

It is hereby defined as any cause, which is beyond the control of the Contractor or WTL as the case may be, which such party could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as

- War, Hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war.
- Rebellion, revolution, insurrection, mutiny, usurpation of civil or military, government, conspiracy, riot, civil commotion and terrorist area.
- Confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de facto authority or ruler, or any other act or failure to act of any local state or national government authority.
- Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage of power supply epidemics, quarantine and plague.
- Earthquake, landslide, volcanic activity, fire flood or inundation, tidal wave, typhoon or cyclone, hurricane, nuclear and pressure waves or other natural or physical disaster through car accident.

If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such

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event and the circumstances of the event of Force Majeure within fourteen days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed.

The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upto its or their performance of the Contract and to fulfill its or their obligation under the Contract but without prejudice to either party's right to terminate the Contract.

No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall.

- Constitute a default or breach of the contract.
- Give rise to any claim from damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

26. INSURANCE COVERAGE

Appropriate insurance to cover all solution components for the transit period and until the time of its acceptance/Go-Live at the respective site is to be taken by the contractor. As the contractor will carry the risk for the material in his books during transit, the contractor should arrange insurance for the total system as period from the dispatch till Acceptance Test is successfully achieved. Further the contractor is to take all required insurance coverage in respect of all its personnel who shall be working on this engagement.

27. WARRANTY & MAINTENANCE

- Contractor will have to provide comprehensive warranty on all components including software from the date of go-live of the solution.
- 1-year Warranty + 4 Years Comprehensive AMC of all products & onsite maintenance support.
- After completion of comprehensive warranty period WTL may go for fresh AMC with the supplier. Hence bidder should maintain sufficient stock of spares with them even after the expiry of the warranty period.
- The Contractor is liable for repairing all or any sort of damage detected during the warranty period completed free of cost.
- During the warranty period no active component should be declared "End of Life". In case it is declared "End of Life" during this period, the vendor has to replace such equipment at their own cost. A letter of Confirmation by OEM shall be mandatory. The rate should be quoted inclusive of warranty.
- Separate SLA will be signed with the vendor for warranty & support after supply of the equipment's.

28. PERFORMANCE BANK GUARANTEE (PBG)

As a guarantee for timely delivery, installation and commissioning of equipment as well as performance of on-site warranty support, as mentioned in Bill of Material, from the date of final acceptance of systems and pertaining to proper running of the systems, the bidder will have to submit **3 % of the contract value** (Excluding TAX amount) as security in the form of Performance Bank Guarantee from any nationalized bank as per format enclosed (Section – O).

29. SI/BIDDER/CONTRACTOR'S RESPONSIBILITIES

Refer Section – A (BACKGROUND & OBJECTIVE OF THE PROJECT) & Section B (Scope of Work)

30. NO WAIVER OF RIGHTS

Neither the inspection by WTL or any of their agents nor any order by WTL for payment of money or any payment for or acceptance of the whole or any part of the works by WTL, nor any extension of time, nor

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any possession taken by WTL shall operate as a waiver of any provision of the contract or of any power reserved to WTL, or any right to damages here in provided, nor shall any waiver of any breach in the contract be held to be a waiver of any other subsequent breach.

31. ENFORCEMENT OF TERMS

The failure of either party to enforce at any time any of the provision of this contract or any rights in respect thereto or to exercise any option here in provided shall in no way be construed to be a waiver to such provisions, rights or options or in any way to affect the validity of the contract. The exercise by either party of any of its rights herein shall not preclude or prejudice either party from exercising the same or any other right it may have hereunder.

32. PERIOD OF VALIDITY OF OFFER

For the purpose of placing the order, the proposals shall remain valid till 365 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, WTL may ask for extension of the period of validity and such a request shall be binding on Bidders. WTL's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

33. TAXES & DUTIES

- The prices shall be inclusive of all taxes & levies including GST and other statutory duties as applicable. Rate of taxes should be indicated separately in the Price Bid.
- Contract Price specified in Price Bid should be based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission.
- Statutory deduction, wherever applicable, shall be made from invoice as per government rules. Necessary certificate will be issued for such deductions.
- Bidder submitting a bid shall produce valid statutory documents / certificates with respect to GST, Income Tax, ROC, Prof. Tax, Trade License, etc. All such documents / certificates shall remain valid on the last date of tender submission.
- In case of inter-state transaction, WTL will provide "Waybill". However, statutory charges, if any will be borne by the bidder.
- GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filing on the part of the bidder.

34. DISCREPANCIES IN BID

- Discrepancy between description in words and figures, the rate which corresponds to the words quoted by the bidder shall be taken as correct.
- Discrepancy in the amount quoted by the bidder due to calculation mistake of the unit rate then the unit rate shall be regarded as firm.
- Discrepancy in totaling or carry forward in the amount quoted by the bidder shall be corrected.

35. BID DUE DATE

The tender has to be submitted not later than the due date and time specified in the Important Dates Sheet. WTL may as its discretion on giving reasonable notice by email, or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the WTL and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

36. LATE BID

Any proposal received by WTL after the deadline for submission of proposals may not be accepted.

37. OPENING OF BID BY WTL

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Bids shall be opened at WTL in presence of Tender Committee. Bidders interested to remain present during bid opening may attend the bid opening session at WTL premises at scheduled date & time.

38. CONTACTING WTL

Bidder shall not approach WTL officers beyond office hours and/or outside WTL office premises from the time of the Bid opening to the time of finalization of successful bidder. Any effort by bidder to influence WTL office in the decision on Bid evaluation, bid comparison or finalization may result in rejection of the Bidder's offer. If the bidder wishes to bring additional information to the notice of WTL, must be in writing following the procedure mentioned hereinabove.

39. WTL'S RIGHT TO REJECT ANY OR ALL BIDS

WTL reserves the right to reject any bid and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

40. BID CURRENCIES

Prices shall be quoted in Indian Rupees, inclusive of all prevailing taxes, levies, duties, cess etc.

41. PRICE

- Price should be quoted in the BOQ format only. No deviation is acceptable.
- Price quoted should be firm, inclusive of packing, forwarding, insurance and freight charges.
- Percentage/specified amount of taxes & duties should be clearly mentioned otherwise WTL reserves the right to reject such vague offer.
- Price to be quoted inclusive of supply, installation & commissioning charges.

42. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized signatory(ies) on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. All pages of the proposal, except for un-amended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Bidder, all corrections shall be done & initialed with date by the authorized signatory after striking out the original words/figures completely.

43. WITHDRAWAL OF BID

Bid cannot be withdrawn during the interval between their submission and expiry of Bid's validity period. Fresh Bid may be called from eligible bidders for any additional item(s) of work not mentioned herein, if so required.

44. INTERPRETATION OF DOCUMENTS

If any bidder should find discrepancies or omission in the specifications or other tender documents, or if he should be in doubt as to the true meaning of any part thereof, he shall make a written request to the tender inviting authority for correction/clarification or interpretation or can put in a separate sheet along with his technical bid document.

45. SPLITTING OF THE CONTRACT AND CURTAILMENT OF WORK

WTL reserve the right to split up and distribute the work among the successful bidders and to curtail any item of work in the schedule partly or fully.

46. PRE-DISPATCH INSTRUCTION

All materials / equipment supplied against the purchase order shall be subjected to Inspection, check and /or test by the authorized representative from WTL.

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47. FINAL INSPECTION

Final inspection will be carried by the authorized representative from WTL.

48. SITE INSPECTION

Bidder can inspect (at their own cost) the sites if required, for which they have to take necessary permission from WTL in writing. WTL will take at least four days to organize such permission.

49. ERASURES OR ALTERNATIONS

The offers with overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript ions is not only signed by the authorized signatory of the bidder. There should be no hand-written material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. Filling up of the information using terms such as "OK", "accepted", "noted", "as given in brochure/manual" is not acceptable. The Customer may treat offers not adhering to these guidelines as unacceptable. The Customer may, at its discretion, waive any minor non-conformity or any minor irregularity in the offer. This shall be binding on all bidders and the Tender Committee reserves the right for such waivers.

50. COMPLIANCE WITH LAW

The contractor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The contractor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

51. CLARIFICATION OF BIDS

During evaluation of the bids, the Customer/Tender Committee, at its discretion may ask the bidder for clarification of its bid. The request for the clarification and the response shall be in writing (fax/email) and no change in the substance of the bid shall seek offered or permitted.

52. QUALITY CONTROL

- The contractor is obliged to work closely with WTL and/or HPC, act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free WTL and HPC. from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL and HPC. responsible.
- The contractor will treat as confidential all data and information about the system, obtained in the execution of its responsibilities in strict confidence and will not reveal such information to any party without the prior written approval of WTL/ HPC.
- WTL reserves the right to inspect all phases of contractor's operation to ensure conformity to the specifications. WTL shall have engineers, inspectors or other duly authorized representatives made known to the contractor, present during the progress of the work and such representatives shall have free access to the work at all times. The presence or absence of representatives of WTL does not relieve the contractor of the responsibility for quality control in all phases.
- The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.

53. SERVICE LEVEL FOR WARRANTY SUPPORT (SLA)

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SL	SLA Parameter	Turnaround Time for Support	Target Uptime/year
1	Availability of Cameras and all other hardware network items	48 Hrs.	99.9%
3	Availability VMS	24 Hrs.	99.9%
4	Availability of Miscellaneous items	24 Hrs.	99.9%

- A SLA shall have to be signed between WTL and SI ensuring 24 X 7 service to maintain 99.9% uptime of the system its entirely.

Definition:

1. "Availability" means availability of
 - Camera installed in the sites listed.
 - Active Components: Core switches/PoE Switch/Storage & HDD/Servers/PC/UPS
 - Passive Components: All Network passive items, VMS Software
2. Turnaround time for support: Calculated based on No of Government working days

The support performance shall be calculated for a quarterly/half yearly basis, based on all equipment supplied and based on the calls logged and the resolution of the calls for support. WTL reserves the right to impose penalty on the bidder in case the support SLA performance is lower than the target turnaround time for repair/replacement, as shown below:

- Resolution of complaint for camera, active and passive components within turnaround time (days) – no penalty
- Resolution of complaint for camera, active and passive components beyond target turnaround time for support:
 - Rs. 100/- per day, after the allowed turnaround time for support, per camera
 - Rs. 200/- per day after the allowed turnaround time for support, for each of the other active components (Core switches/PoE Switch/Storage & HDD/Servers/PC/UPS)
 - Rs. 200/- per day after the allowed turnaround time for support for passive components,
 - The total amount of penalty for a quarter/six-month period shall not exceed 5% of the billable amount for the period (Quarter/6 Months).
 - Any fraction of the day on which the repair/replacement is completed, shall be counted as 1 day.
 - The PBG (Performance Bank Guarantee) may be forfeited if the penalty amount for any Quarter/6-month period is higher than 10% of the bill amount for the period (quarter/6 months) and no payment towards AMC/Support shall be made.

The SLA for service support in compliance to the minimum SLA required must be submitted by the L1 bidder on placement of order. WTL reserves the right to change/modify the SLAs during the finalization of the contractual agreement with the successful bidder.

54. GENERAL TERMS

- a) All the documents to be submitted by the bidder along with their offer should be duly authenticated by the person signing the offer and if at any point of time during procurement process or subsequently it is detected that documents submitted are forged/tampered/manipulated in any way, the total responsibility lies with the bidder and WTL reserves the full right to take action as may be deemed fit including rejection of the offer and such case is to be kept recorded for any future dealing with them.

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- b) No Technical/Commercial clarification will be entertained after opening of the tender.
- c) Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. WTL reserve the right to increase or decrease the quantity specified in the tender.
- d) WTL reserve the right to reject or accept or withdraw the tender in full or part as the case may be without assigning the reasons thereof. No dispute of any kind can be raised the right of buyer in any court of law or elsewhere.
- e) WTL reserve the right to ask for clarification in the bid documents submitted by the bidder. Documents may be taken if decided by the committee.
- f) Supporting technical brochures/catalogues indicating each feature in respect of offered model and make must be submitted along with the offer, in absence of which the offer is liable to be ignored.
- g) No dispute by the bidders in regard to Technical/Commercial points will be entertained by WTL and decision taken by the Tender Committee will be final.
- h) Discrepancy in the amount quoted by the bidder due to calculation mistake, the unit rate shall be regarded as firm and the totaling or carry in the amount quoted by the bidder shall be corrected accordingly.
- i) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- j) The acceptance of the tender will rest with the accepting authority who is not bound to accept the lowest or any tender and reserves the right to reject in part or in full any or all tender(s) received and to split up the work among participants without assigning any reason thereof.
- k) The customer/WTL at its discretion may extend the deadline for the submission of Bids.
- l) The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.
- m) For future extensions or repeat order process with same scope of work and the same line items mentioned in the BOQ, WTL reserves the right to distribute the work to L1, L2 & L3 bidders of this tender to take up the job by accepting the L-1 rate.
- n) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

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SECTION – E

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

1. EVALUATION PROCEDURE

- The Eligibility Criteria (Section - C) will be evaluated by Tender Committee and those qualify will be considered for further evaluation.
- The Tender Committee shall verify the Technical Specification (Technical Specification with Compliance Statement, (Section – N) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- After qualifying in Eligibility Criteria, the qualified bidders will only be considered for Financial Bid evaluation.

2. FINAL EVALUATION

Financial Proposal of the bidders qualifying in the evaluation of Technical Specification will be evaluated. The bidder who has qualified in the Technical Specification evaluation and returns with lowest quote (L1) in financial bid would normally be awarded the contract subject to Post Qualification. Price to be quoted as per format given in Section – Q.

3. AWARDING OF CONTRACT

An affirmative Post Qualification determination will be prerequisite for award of the contract to the lowest quoted bidder. A negative determination will result in rejection of bidder's bid, in which event the WTL will proceed to the next lowest evaluated bidder to make a similar determination of that bidder's capability to perform satisfactorily. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee.

- a) L1 Bidder technically compliant shall be awarded the contract, provided the overall project is within the budget. WTL reserves the right to negotiate and finalize the project contract value, prior to award of contract.
- b) For faster execution of the project, WTL may split the work order among the bidders other than L1 bidder with matching the price of L1 bidder.
- c) The successful bidder, meeting all technical and commercial terms and conditions of the project must submit a PBG for 3% of the Contract value (without Tax amount), valid for a period of 5 years & 6 months, counted from the date of acceptance and commission of the project. The format for PBG is attached.
- d) The successful bidder, must submit within 15 days, the project implementation plan, with details of
 - a) ordering of each and every component to the OEMs, who have provided authorization in the bid
 - b) communication with each HPC and associated entity, with whose support the project shall be implemented, including contract agreements required for the project. The detailed project plan shall also include the implementation timeline for the project at granular level, including the installation plan for each point where camera and network shall be setup. The project plan must be jointly approved by WTL and HPC, within 20 days from the award of the contract.
 - c) Assign the Project Management and implementation team, and submit a list of resources, Project Manager, Project engineers, other resources, responsible for the implementation of the project, along with their Bio-data, for approval by WTL.

If the above are not fulfilled by the bidder who is awarded the contract, WTL shall reserve the right to seek explanation, and after 30 days, in case of unsatisfactory written explanation or for lack of progress, may cancel the order and invite the next highest bidder to match the price and implement the project. WTL reserves the right to forfeit whole or part of the PBG in such case and may consider black listing of the bidder, under such circumstances.

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- e) If L1 bidder disagree to execute the job then WTL will award the job to L2 or higher matching the L1 price.
- f) This is a time bound job so if necessary WTL may distribute the job among the bidders matching the L1 price.

4. POST QUALIFICATION

The determination will evaluate the Bidder's financial, technical, design, Integration, customization, production, management and support capabilities and will be based on an examination of the documentary evidence of the Bidder's qualification, as well as other information WTL deems necessary and appropriate. This determination may include visits or interviews with the Bidder's client's reference in its bid, site inspection, and any other measures.

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SECTION – F

TECHNICAL CAPABILITY OF BIDDER

(Tender No. WTL/HPC/CCTV/22-23/043)

Sl. No.	Project Name	Start Date	End Date / Status	Brief description of project & scope of work (Implementation, operation & maintenance)	Type of project	Approx value of the project	Contact details of the Customer

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

NOTE:

- A. Type of Project shall indicate the implementation of services (CCTV Surveillance, Networking Setup, System Integration).
- B. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- C. Submit Customer Order Copy details of the order indicating the project value, customer contact details, project completion certificate, customer satisfaction certificate etc.

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SECTION – G

FINANCIAL CAPABILITY OF BIDDER

(Tender No. WTL/HPC/CCTV/22-23/043)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2019-20	2020-21	2021-22
1				

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Note:

Submit the audited financial statement/ audited annual report of the last three financial years.

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SECTION – H

BIDDERS'S DETAILS

(Tender No. WTL/HPC/CCTV/22-23/043)

1	Name of the Firm	
2	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
	E-mail	
4	Is the firm a registered company? If yes, submit documentary proof	
	Year and Place of the establishment of the company	
6	Former name of the company, if any	
7	Is the firm <ul style="list-style-type: none">▪ a Government/ Public Sector Undertaking▪ a propriety firms▪ a partnership firm (if yes, give partnership deed)▪ a limited company or limited corporation▪ a member of a group of companies, (if yes, give name and address and description of other companies)▪ a subsidiary of a large corporation (if yes give the name and address of the parent organization). If the company is subsidiary, state what involvement if any, will the parent company have in the project.	
8	Is the firm registered with Sales Tax department? If yes, submit valid GST Registration certificate.	
9	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
10	Total number of employees. Attach the organizational chart showing the structure of the organization.	
11	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
12	How many years has your organization been in business under your present name? What were your fields when you established your organization	
13	What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary)	
	▪ Manufacturer	
	▪ Supplier	
	▪ System Integrator	
	▪ Consultant	
	▪ Service Provider (Pl. specify details)	

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	<ul style="list-style-type: none">▪ Software Development▪ Total Solution provider (Design, Supply, Integration, O&M)▪ IT Company	
14	Number of Offices in district headquarters in West Bengal	
15	Is your organization having ISO 9001:2015 certificates?	
16	List the major clients with whom your organization has been / is currently associated.	
17	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
18	Have you ever been denied tendering facilities by any Government / Department / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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SECTION – I

LIST OF CLIENTS OF SIMILAR ORDERS

(Tender No. WTL/HPC/CCTV/22-23/043)

Sl. No.	Name of the Client	Address	Contact Person	Designation	Contact Numbers

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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SECTION – J

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On non-judicial stamp paper of appropriate value to be purchased in the name of executing Bank)

PROFORMA OF BANK GUARANTEE FOR SECURITY DEPOSIT –CUM-PRFORMANCE GUARANTEE

Ref Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

KNOW ALL MEN BY THESE PRESENTS that in consideration of WEBEL TECHNOLOGY LIMITED, a Government of West Bengal Undertaking incorporated under the Companies Act, 1956 having its Registered office at Webel Bhavan, Block EP&GP, Sector V, Kolkata-700 091 (hereinafter called "The Purchaser") having agreed to accept from _____ (hereinafter called "The Contractor") Having its Head Office at _____, a Bank guarantee for Rs. _____ in lieu of Cash Security Deposit for the due fulfillment by the Contractor of the terms & conditions of the Work Order No. _____ dated _____ issued by the Purchaser for _____ (hereinafter called "the said work order _____ dated _____"). We _____ (Name & detailed address of the branch) (hereinafter called "the Guarantor") do hereby undertake to indemnify and keep indemnified the Purchaser to the extent of Rs. _____ (Rupees _____) only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the terms and conditions contained in the said Work Order No. _____ dated _____ of which breach the opinion of the Purchaser shall be final and conclusive.

(2) AND WE, _____ DO HEREBY Guarantee and undertake to pay forthwith on demand to the Purchaser such sum not exceeding the said sum of _____ Rupees _____) only as may be specified in such demand, in the event of the Contractor failing or neglecting to execute fully efficiently and satisfactorily the order for _____ Work Order no. _____, dated _____

(3) WE _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order as laid down in the said Work Order No. _____ dated _____ including the warranty obligations and that it shall continue to be enforceable till all the dues of the Purchaser under or by virtue of the said Work Order No. _____ dated _____ have been fully paid and its claims satisfied or is charged or till the Purchaser or its authorized representative certified that the terms and conditions of the said Work Order No. _____ dated _____ have been fully and properly carried out by the said contractor and accordingly discharged the guarantee.

(4) We _____ the Guarantor undertake to extend the validity of Bank Guarantee at the request of the contractor for further period of periods from time to time beyond its present validity period failing which we shall pay the Purchaser the amount of Guarantee.

(5) The liability under the Guarantee is restricted to Rs. _____ (Rupees _____) only and will expire on _____ and unless a claim in writing is presented to us or an action or suit to enforce the claim is filled against us within 6 months from _____ all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities (thereinafter)

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(6) The Guarantee herein contained shall not be determined or affected by liquidation or winding up or insolvency or closer of the Contractor.

(7) The executants has the power to issue this guarantee on behalf of Guarantor and holds full and valid power of Attorney granted in his favour by the Guarantor authorizing him to execute the Guarantee.

(8) Notwithstanding anything contained herein above, our liability under this guarantee is restricted to Rs. _____ (Rupees _____) only and our guarantee shall remain in force up to _____ and unless a demand or claim under the guarantee is made on us in writing on or before _____ all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

WE, _____ lastly undertake not to revoke this guarantee during the currency except with the previous consent of the Purchaser in writing. In witness whereof we _____ have set and subscribed our hand on this _____ day of _____.

SIGNED, SEALED AND DELIVERED

(Stamp of the executants)

WITNESS

1) _____

2) _____

(Name & address in full with Rubber Stamp)

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INSTRUCTIONS FOR FURNISHING BANK GUARANTEE

1. Bank Guarantee (B.G.) for Advance payment, Mobilization Advance, B.G. for security Deposit-cum-Performance Guarantee, Earnest Money should be executed on the Non- Judicial Stamp paper of the applicable value and to be purchased in the name of the Bank.
2. The Executor (Bank authorities) may mention the Power of Attorney No. and date of execution in his/her favor with authorization to sign the documents. The Power of Attorney is to be witnessed by two persons mentioning their full name and address.
3. The B.G. should be executed by a Nationalized Bank/ Scheduled Commercial Bank preferably on a branch located in Kolkata. B.G. from Co-operative Bank / Rural Banks is not acceptable.
4. A Confirmation Letter of the concerned Bank must be furnished as a proof of genuineness of the Guarantee issued by them.
5. Any B.G. if executed on Non-Judicial Stamp paper after 6 (six) months of the purchase of such stamp shall be treated as Non-valid.
6. Each page of the B.G. must bear signature and seal of the Bank and B.G. Number.
7. The content of the B.G. shall be strictly as Proforma prescribed by WTL in line with Purchase Order /LOI/ Work Order etc. and must contain all factual details.
8. Any correction, deletion etc. in the B.G. should be authenticated by the Bank Officials signing the B.G.
9. In case of extension of a Contract the validity of the B.G. must be extended accordingly.
10. B.G. must be furnished within the stipulated period as mentioned in Purchase Order / LOI / Work Order etc.
11. Issuing Bank / The Bidder are requested to mention the Purchase Order / Contract / Work Order reference along with the B.G. No. For making any future queries to WTL.

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SECTION - K

BID FROM

(Bidders are requested to furnish the Format given in this section, filling the entire Blank and to be submitted on Bidder's Letter Head)

To
Webel Technology Limited
Plot-5, Block-BP, Sector – V, Salt
Lake City,
Kolkata-700091.

Sub: Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty

Dear Sir,

1. We the undersigned bidder/(s), having read and examined in details the specifications and other documents of the subject tender no. WTL/HPC/CCTV/22-23/043 dated 10.03.2023, do hereby propose to execute the job as per specification as set forth in your Bid documents.
2. The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 365 (Three hundred sixty five) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipment and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit: We have transferred the Tender Fee & EMD Amount online through e-Tender portal.
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to ten percent (3%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

WEBEL TECHNOLOGY LIMITED

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Plot – 5, Block – BP, Sector – V,

Salt Lake, Kolkata – 700091.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Signature & Authorized Verified by

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, thisday of2023

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SECTION - I

MAKE, MODEL & PART NUMBER DECLARATION

(Tender No. WTL/HPC/CCTV/22-23/043)

HOWRAH TRAFFIC GUARD

SL.	DESCRIPTION	Make / Brand	Model / Part no.
1	Bullet Camera - 5 Megapixel IR Vari-focal Bullet Network Camera, 2.7 mm–13.5 mm Motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10. (As per Section M)		
2	Box Camera - 5 Megapixel CMOS Image Sensor Box Type Network Camera, WDR (120 dB), Support Micro SD memory. (As per Section M)		
3	6 Megapixel 5-50mm Vari-focal Lens, Support IR Correction (As per Section M)		
4	Vandal-Proof Housing for Box Camera, IR Range 100 Meter, IP67 & IK10. (As per Section M)		
5	Mount Bracket for Box Camera (As per Section M)		
6	General Surveillance Management Server & Storage system for Traffic Guard. (As per Section M)		
7	Central Video Monitoring Software. (As per Section M)		
8	Video Monitoring Camera Client License		
9	8 TB Sata Surveillance / Enterprise HDD. (As per Section M)		
10	Layer 2 Gigabit Ethernet Rugged Industrial Grade Managed switch with 8x 10/100/1000BaseT PoE / PoE+ Ports & 2x combo 10/100/1000BaseT ports/SFP slots. - 40°C~75°C operating temperature. (As per Section M)		
11	Power Supply for Industrial PoE Switch		
12	Outdoor Weatherproof Customized Rack for Switch & other accessories. (As per Section M)		
13	49" UHD 4K Display, Operation Hours 24. (As per Section M)		
14	Client Workstation - 9th Generation Intel Core i7 processor, 16 GB DDR4 RAM, Dedicated Non-Shared 2 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed. (As per Section M)		
15	Wireless Key Board and Mouse with USB Extension Cord		
16	4K 5 Meter Length DP Cable with Mini DP Convertor		

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17	27U, 800mm Width x 1000mm Depth, Floor Standing Rack		
18	24 Port Rack Mount LiU Fully Loaded with Single Mode SC Adapters. (As per Section M)		
19	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots. (As per Section M)		
20	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots. (As per Section M)		
21	License for Core Switch (Standard Image to Enhanced Image license)		
22	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support) (As per Section M)		
23	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support) (As per Section M)		
24	Single Mode SC Pigtail - 1Mtr		
25	LC - LC SM FO Patch Cord 5 Meter Length. (As per Section M)		
26	SC - LC SM FO Patch Cord 2 Meter Length. (As per Section M)		
27	FOC TJ Box (Ballon Type)		
28	3 KVA/2.4kW 1-Phase Input / 1-Phase Output with IGBT Rectifier. (As per Section M)		
29	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable		
30	600 VA Offline UPS. (As per Section M)		
31	32 Amp Power Socket with MCB		
32	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box		
33	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos. (As per Section M)		
34	Wall / Pole Mount Outdoor Camera Bracket with Junction box for Camera		
35	Power Failure identification Sensor		
36	Installation, Commissioning and Configuration of Power Failure Indication system.		
37	RJ-45 Connector		
38	UTP CAT-6 Patch Cord 2 Meters		

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39	UTP CAT-6 Patch Cord 5 Meters		
40	Outdoor UTP CAT-6 Cable. (As per Section M)		
41	3 Core 1.5 sq MM Non Armoured Power Cable		
42	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)		
43	2 Core 0.5 sq mm No Armoured Cable for Sensor Connectivity		
44	Fiber Optic Cable - 6 Core Armoured Outdoor.		
45	Fiber Optic Cable - 12 Core Armoured Outdoor. (As per Section M)		
46	Fiber Optic Cable - 24 Core Armoured Outdoor. (As per Section M)		
47	20 MM Non-ISI PVC straight Pipe or 3/4" PVC Casing with all accessories for Outdoor Wiring		
48	Overhead and Surface Cable Laying Charge		
49	Splicing Charge for OFC Cable		
50	Dedicated Earth pit at Control Room location with 300mm x 300mm copper plate thickness of 3mm with 6ft GI pipe striping with 25x3mm copper and filling the same with Chemical & Sand.		

CONTROL ROOM

SL.	DESCRIPTION	Make / Brand	Model / Part no.
1	General Surveillance Management Server & Storage system for Central Control. (As per Section M)		
2	Central Video Monitoring Software. (As per Section M)		
3	Video Monitoring Camera Client License		
4	8 TB Sata Surveillance / Enterprise HDD. (As per Section M)		
5	49" UHD 4K Display, Operation Hours 24. (As per Section M)		
6	Client Workstation - 9th Generation Intel Core i7 processor, 16 GB DDR4 RAM, Dedicated Non-Shared 2 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed. (As per Section M)		
7	Wireless Key Board and Mouse with USB Extension Cord		

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8	4K 5 Meter Length DP Cable with Mini DP Converter		
9	42U, 800mm Width x 1000mm Depth, Floor Standing Rack. (As per Section M)		
10	27U, 800mm Width x 1000mm Depth, Floor Standing Rack		
11	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters. (As per Section M)		
12	Cabinet / Rack for Workstation staging		
13	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots. (As per Section M)		
14	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots. (As per Section M)		
15	License for Core Switch (Standard Image to Enhanced Image license)		
16	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support) (As per Section M)		
17	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support) (As per Section M)		
18	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 50km, support) (As per Section M)		
19	Single Mode SC Pigtail - 1Mtr		
20	LC - LC SM FO Patch Cord 5 Meter Length. (As per Section M)		
21	SC - LC SM FO Patch Cord 2 Meter Length. (As per Section M)		
22	FOC TJ Box (Ballon Type)		
23	10 KVA 1-Phase Input / 10 KW 1-Phase Output DSP Controlled IGBT Rectifier. (As per Section M)		
24	120 Mins Backup 12 V, 100 ah AH of SMF Battery with battery Rack with interconnecting cable		
25	6 KVA 1-Phase Input / 6 KW 1-Phase Output DSP Controlled IGBT Rectifier. (As per Section M)		
26	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable		
27	32 Amp Power Socket with MCB		
28	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos. (As per Section M)		

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29	UTP CAT-6 Patch Cord 5 Meters		
30	Outdoor UTP CAT-6 Cable. (As per Section M)		
31	3 Core 1.5 sq MM Non Armoured Power Cable		
32	6 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)		
33	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)		
34	20 MM Non-ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring		
35	Overhead and Surface Cable Laying Charge		
36	Splicing Charge for OFC Cable		
37	Dedicated Earth pit at Control Room location with 300mm x 300mm copper plate thickness of 3mm with 6ft GI pipe striping with 25x3mm copper and filling the same with Chemical & Sand.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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SECTION - M

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT

(Tender No. WTL/HPC/CCTV/22-23/043)

5 MP IR Vari-focal Bullet Network Camera				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/2.7" CMOS Sensor or Better		
2	Resolution	Minimum 2592 (H) × 1944 (V)		
3	Scanning System	Progressive		
4	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s		
5	Min. Illumination	0.005 lux@F1.5 (Color, 30 IRE) or Better		
		0.0005 lux@F1.5 (B/W, 30 IRE) or Better		
		0 lux (Illuminator on)		
6	S/N Ratio	>56 dB		
7	Illumination Distance	60 meter or Better		
8	Illuminator On/Off Control	Auto		
9	Lens Type	Motorized vari-focal		
10	Focal Length	OEM fitted 2.7 mm–13.5 mm or Better		
11	Iris Control	Auto		
12	Inbuilt IVAS	Abandoned object; missing object		
13	Heat Map	Should Support		
14	Professional, intelligent			
	IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		
	Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard)		
	People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management		
15	Video Compression	H.265 & H.264		

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16	Video Frame Rate	Main stream: 2592 × 1944@(1 fps–20 fps); 2688 × 1520@(1 fps–25/30 fps) or Better		
		Sub stream: D1@(1 fps–50/60 fps) or Better		
		Third stream: 1080p@(1 fps–50/60 fps) or Better		
17	Stream Capability	3 streams or Higher		
18	Resolution	2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720)		
19	Day/Night	Auto (ICR)/Color/B/W		
20	BLC	Should Support		
21	HLC	Should Support		
22	WDR	120 dB or Higher		
23	Scene Self-adaptation (SSA)	Should Support		
24	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
25	Gain Control	Auto; manual		
26	Noise Reduction	3D NR		
27	Motion Detection	Should Support		
28	Region of Interest (RoI)	Should Support		
29	Image Stabilization	Should Support		
30	Smart Illumination	Should Support		
31	Defog	Should Support		
32	Mirror	Should Support		
33	Image Rotation	Should Support		
34	Privacy Masking	Should Support		
35	Audio Input	Should Support		
36	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; input error; voltage detection; face detection; people counting in area; stay detection; people counting; people number error detection; queue management; intensity change		
37	SDK and API	Yes		
38	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		

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39	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; RTP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; UPnP; NTP; Multicast; ICMP; IGMP; PPPoE; SNMP		
40	Interoperability	ONVIF (Profile S/Profile G/Profile T)		
41	Storage	FTP; SFTP; Micro SD card (support minimum 256 GB); NAS		
42	Mobile Client	iOS; Android		
43	Operation Temperature / Humidity	0 °C to 60 °C / Less than 95% RH		
44	Weather Proof Standard	IP67 rated weather proofing standards or better		
45	Vandal Proof	Vandal Resistance IK10 or better		
46	Certifications	CE, FCC, UL, BIS		
47	Make / Brand	Any globally reputed Manufacturer presence in India & having manufacturing facility in India.		

5 MP Box Type Network Camera

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/2.7" CMOS Sensor or Better		
2	Resolution	2592 (H) × 1944 (V) or Higher		
3	Scanning System	Progressive		
4	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s		
5	Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE)		
		0 lux (Illuminator on)		
6	S/N Ratio	> 56 dB		
7	Lens Mount	C/CS		
8	Iris Control Type	DC-Iris		
9	Professional, intelligent			
	IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		
	Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard)		

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	People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management		
10	Video Compression	H.265; H.264		
11	Video Frame Rate	Main stream: 2592 × 1944@(1-20 fps)/2688 × 1520@(1-25/30 fps) /1920 × 1080@(1-50/60 fps)		
		Sub stream: D1@ (1-25/30 fps)		
		Third stream: 1080p@ (1-25/30 fps)		
12	Stream Capability	Minimum 3 streams or Higher		
13	Resolution	2592 × 1944; 2688 × 1520; 2304 × 1296;1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720)		
14	Bit Rate Control	CBR/VBR		
15	Day/Night	Auto (ICR)/Color/B/W		
16	BLC	Support		
17	BLC	Support		
18	HLC	Support		
19	WDR	120 dB or Higher		
20	Scene Self-adaptation (SSA)	Support		
21	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
22	Gain Control	Auto & Manual		
23	Noise Reduction	3D NR		
24	Motion Detection	Should Support		
25	Region of Interest (RoI)	Should Support		
26	Electronic Image Stabilization (EIS)	Should Support		
27	Defog	Should Support		
28	Mirror	Should Support		
29	Privacy Masking	Should Support		
30	Audio	Built-in MIC (optional)		
31	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; SMD; people counting in area; stay detection; people counting; security exception		
32	SDK and API	Support		

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33	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
34	Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; Multicast; ICMP; PPPoE; SNMP		
35	Interoperability	ONVIF (Profile S/Profile G/Profile T)		
36	Storage	FTP; SFTP; Micro SD card (support 256 GB); NAS		
37	Mobile Client	iOS; Android		
38	RS-485	Available		
39	Operating Temperature	0°C ~ 60°C / Less than 95% RH		
40	Power Source	12 VDC /24 VAC/PoE (802.3af)		
41	Certifications	CE, FCC, UL & BIS		
42	Make / Brand	Any globally reputed Manufacturer presence in India & having manufacturing facility in India.		

6 MP 5-50mm Vari-focal Lens

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Format	1/2.7"		
2	Focal Length	5-50mm		
3	Lens Pixel	6MP		
4	Aperture	F1.6		
5	Mount	CS		
6	Lens Control			
	Focus	Auto		
	Zoom	Manual		
	Iris	DC-iris		
7	IR Correction	Should support		
8	Operating Temperature	0°C~+60°C		
9	Certifications	CE & FCC		
10	Make / Brand	Same Make of Box Camera		

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Vandal-proof Housing				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Housing, provides all-weather protection for box cameras and lens	Should Support		
2	All-aluminium shell design, 14" housing with different function modules: Built-in heating and cooling system, windows adopt water-proof films built-in PoE module and support remote control of IR light by RS485	Should have these features		
3	Operating Temperature	0°C ~+60°C		
4	IR Distance	Minimum 100 Meter		
5	RS485 Control	RS484 to control IR light		
6	Power Supply	AC24V / DC24V / PoE		
7	Ingress Protection	IP67		
8	Vandal Resistance	IK10		
9	Certification	CE, FCC & UL		
10	Make / Brand	Same Make of Box Camera		

Housing Mount Bracket				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Material	Aluminium		
2	Aesthetic design	Yes		
3	Operating Temperature	0°C ~+60°C		
4	Make / Brand	Same Make of Box Camera		

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General Surveillance Management Server & Storage system for Traffic Guard

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Processor	Industrial embedded Processor or Higher		
2	Operating System	Embedded Linux		
3	IP Camera Input	32 Channel or Higher		
4	Interface	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720: HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160@25fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2		
5	Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/960p/720p		
6	Multi-screen Display	1st Screen: 1/4/8/9/16/25/36, 2nd Screen: 1/4/8/9/16		
7	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
8	Perimeter Protection	24 Channel		
9	Face Detection by Camera	24 channels (Face Attributes: 6 attributes Gender, age, glasses, expression, mouth mask, and beard)		
10	ANPR By Camera	Minimum 8 Channels		
11	Compression	H.265/H.264/		
12	Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P.		
13	Decoding Capability	16-ch@1080p (30 fps) or Higher		
14	Network Bandwidth	384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding or better		
15	Interoperability	ONVIF (profile T/S/G), CGI, SDK		
16	Record Mode	Manual, Schedule (Regular, MD (Motion Detection),		
17	Trigger Events	Motion detection, privacy masking, video loss, local alarm, PIR alarm, IPC alarm, Camera offline, storage error, full storage, IP conflict, login lock, network security anomaly, Perimeter protection, face detection, face recognition, SMD, video metadata (human, motor-vehicle, non-motor vehicle), ANPR, people counting, stereo analysis, crowd distribution, heatmap, video quality diagnosis, Alarm Linkage Record, snapshot, IPC external alarm output, buzzer, log, preset, email.		
18	Alarm input	16 Channel		

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19	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
20	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom		
21	Backup Mode	USB Device/Network/eSATA Device		
22	Network Interface	2 No. RJ-45 Ports (10/100/1000Mbps)		
23	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, FTP, Alarm Server		
24	Internal HDD	8 SATA III ports, Support 8 TB for a single HDD or better		
25	HDD Mode	Single, Raid 0/1/5/10		
26	eSATA	1 eSATA Port		
27	Power Supply	AC100V ~ 240V, 50 ~ 60 Hz		
28	Power Consumption	<20W (Without HDD)		
29	Working Temp	0°C ~ +55°C or Better		
30	Certifications	CE, FCC, UL & BIS		
31	Make / Brand	Any globally reputed Manufacturer presence in India & having manufacturing facility in India.		

General Surveillance Management Server & Storage system for Central Control

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Processor	Industrial embedded micro-processor or Higher		
2	Operating System	Embedded Linux / Windows		
3	Operating Interface	Web mode, local GUI		
4	Hard disk hot swap	Should Support Hot swap and online replacement		
5	Hard disk compatibility	SATA disk		
6	SAS	1 Mini SAS Port, for Storage Expansion		
7	Face Recognition	Should Support		
8	ANPR Device	Should Support		
9	Network Bandwidth	Minimum 380 Mbps for access		
		Minimum 380 Mbps for storage		
		Minimum 380 Mbps for forwarding		
10	Hard Disk	Support 16HDD disks (10TB HDD support)		
11	RAID	Support Single, Raid 0/1/5/6/10		
12	Disk Group	Support		
13	N+M	Should Support N+M Hot Standby		

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14	Ethernet	4 × RJ45 10/100/1000 Mbps self-adaptive Ethernet ports and 2 × 1000 Mbps optical port		
15	Network Protocol	HTTP, HTTPs, TCP/IP, IPv4/IPv6, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, FTP,		
16	HDMI	Minimum 2 HDMI		
17	Working Temp	0°C~55°C or Better		
18	Certifications	It should have CE, FCC, UL, BIS certification		
19	Make / Brand	Any globally reputed Manufacturer presence in India.		

Central Video Monitoring / Management Software

	Feature	Compliance (Yes/No)	If any deviation (Yes/No)
1	VMS Shall be based on Microsoft windows or Linux OS.		
2	VMS shall be open to IP & Analog camera integration in that respects VMS should support IP Cameras from Multiple vendors.		
3	The VMS shall be ONVIF compliant.		
4	VMS shall be open to any standard storage technologies integration.		
5	VMS shall support H.264 and MJPEG stream for both live view and Recording independently. Compression rate shall be manageable.		
6	The Video Management System shall support cameras with resolutions ranging from Standard Definition, High Definition (HD) and higher resolution		
7	The Video Management System shall show video across 4 displays per workstation - each display can have up to 25 viewing panes		
8	VMS shall be able to integrate with video wall controller. Bidder shall provide their SDK to ensure its seamless integration with any other system.		
9	Users shall be able to move any image from one display screen to another via drag-and-drop		
10	The VMS shall allow the overlay of time and date information on live video panes, either on all panes, or selected pane only.		
11	The VMS shall allow users to view live video and review recorded video at the same time		
12	Users shall be able to digitally zoom and also digitally scroll live video from any camera using the mouse wheel		
13	Users shall be able to replay currently viewed live video for replays from 10, 15 or 30 seconds before current time or from alarm time.		
14	The VMS shall allow users to reset the event count for a camera It should be able to display camera information in the On Screen Display (OSD).		
	a. Camera name		
	b. Date and time		
15	VMS Should Support GIS map i.e (Google)		
16	VMS shall be accessible using any Standard Web browser (Safari, Firefox, Internet Explorer, Chrome, etc) for Live view and Archive search		

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17	VMS should support the two-way audio so that users shall be able to listen audio from multiple cameras through PC speakers and may speak to one or more cameras through a PC microphone		
18	VMS Shall support static assigned IP address or shall obtain IP address from DNS/ DHCP and should support IPv4 & IPv6.		
19	VMS shall allow managing initial client logon, system configurations, logging, remote administration of recording servers, devices, security, rules, alerts and logging.		
20	VMS shall support at least 3 levels of users with various privileges to access the system functionality. Each category of users shall have selectable rights to perform various operations like Camera add/delete, Change camera settings, Configure storage, Control PTZ cameras, User management, etc		
21	VMS shall maintain a continuous log of server status messages, Camera connectivity, Storage status, Recording ON/OFF, User activity logs , etc which shall be accessed from the Workstations using different filters		
22	Each video streams shall be individually and independently configurable in term of resolution, frames and bandwidth		
23	VMS shall support video streams up to at least 25/30fps		
24	VMS shall support at least CIF, 2CIF, 4CIF/D1 and HD/Megapixel resolution		
25	PTZ Control	All PTZ control shall be user-restricted	
		Users shall be able to zoom a PTZ camera in or out using the PC mouse	
		Users shall be able to pan, tilt and zoom a PTZ camera displayed in a video pane or monitor using a joy stick on one of the supported CCTV keyboards	
		Users shall be able to adjust the iris of a PTZ camera using the on screen PTZ controls or a CCTV keyboard:-Open iris-Close-Auto-iris	
		The Video Management System shall support the following for cameras using the ONVIF interface or Camera Gateway	
		a. Pan, tilt and zoom control with mouse and joystick	
		b. Go to preset	
	c. Set preset		
26	VMS Should support E-map and should displays max 200-channel on one screen		
27	VMS shall have the capability to enable the end-user to define areas for each camera view		
28	The VMS shall have the capability of operating in an environment that requires multi-tasking, when using multiple cameras spread over a wide area		
29	VMS should have Pre and Post Event Recording		
30	VMS should have Latest Motion Detection technology		
31	Software provides remote interface with a full live feed view, with digital zoom options, control of PTZ cameras, multiple simultaneous feeds, and image quality settings to improve performance through bandwidth reduction		
32	Software has built in feature to bring camera observation to mobile devices (require a software on a mobile device to view)		

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33	Each camera setting can be adjusted individually according to client's requirement		
34	Schedule operation - All cameras can be fully scheduled individually		
35	View and record multiple cameras		
36	As many playback sessions as are required can be displayed at once		
37	Automatic control of supported PTZ cameras		
38	Alerting by email (with images)		
39	Built around a modular system of components		
40	Software should have built in feature to bring camera observation to mobile devices (require a software on a mobile device to view)		
41	The software shall allow:		
A	Live display of cameras.		
B	Live display of camera sequences.		
C	Control of PTZ cameras.		
D	Playback of archived video.		
E	Retrieval of archived video.		
F	Instant Replay of live video.		
G	Configuration of system settings.		
H	Configuration and programming of P/T/Z cameras, features like camera addressing, BLC, auto tours, presets etc.		
I	Video Analytics		
J	Use of site maps.		
42	The software should be able to do video recording on any of the following options - inbuilt hard disks on the server, direct attached storage boxes attached to servers, network attached storage, storage area network.		
43	The software should be capable of handling camera and alarm icons on area maps. The area map should be configurable to pop up upon the receipt of an alarm received from a camera on the map. This can be on the same or other monitors on the PC.		
44	The software shall be able to select the required recording based on the time recording was activated, the duration of recording, operator activated recording, event activated recording, scheduled recording.		
45	It shall be possible to search for recordings in the software by camera, date and time. If a data and time is specified, playback shall commence from that date and time. It shall be possible to playback more than one camera simultaneously.		
46	It Software shall allow operators to bookmark the concern videos & browse through a list of all bookmarks created on the system and select any bookmarked event for viewing. Software shall support industry standard for the interface of IP-based physical security products: ONVIF and shall be based on a server/client model.		
47	VMS should use two independent streams Camera or IP encoders: One for Live View and other for recording. All settings for each stream including resolution, codecs, frame rate and compression level may be choose independently without affection overall system performance and IP device functionality.		
48	Software shall have the capacity to communicate with IP Cameras / Encoders using HTTPS secure protocol. It shall support any form of IP network connectivity, including: LAN, WAN, VPN, Internet, and Wireless technologies.		

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49	All audio streams supplied from IP Camera / Encoders shall be digitally encoded in g711 (u-law), g721, g723 or AAC compression formats and recorded simultaneously in real time.		
50	Software shall offer redundant architecture. Roles shall move from one server to another without disturbing the regular operations. To minimize network traffic, Software must have ability to configure the key frame interval (I-frame) per second.		
51	All video streams supplied from IP cameras / Encoders shall be digitally encoded in MPEG-4/MPEG-2/MJPEG and H.264 compression formats and recorded simultaneously in real time		
52	Each camera's bit rate, frame rate and resolution shall be set independently and changing these settings will not affect the recording and display settings of other cameras.		
53	Software shall support dynamically switch the video resolution according to the Tile Size on Monitoring Screen. High Resolution Video feed while watching single camera on screen and low Resolution Video feed while watching Cameras in Multiple tiles.		
54	Support Face Recognition	Automatically captures faces in the camera field of view Extracts face attribute information from captured face. Real-time face comparison Quickly register face to face library Searching face via face attribute Searching face via uploading a face image Searching comparison records. Generate the track for the specific face Generate daily, weekly, monthly attribute report based on the gender and age	
55	Support Face Database	Face library management Adding face one by one Import faces in batches Set person type for face, you can add person Send face library to face recognition devices, and config the similarity	
56	Support ANPR	Real-time license plate recognition Vehicle passed record Generates vehicle trajectory based on license plate and time info. Search arming record	
57	Vehicle Blacklist	Vehicle Blacklist management Vehicle blacklist arming and disarming Import and export vehicle blacklist	

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Client Workstation PC

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Form factor	Tower Type or Rack Mounted		
2	Operating System	Windows 10 or Latest OS for Workstations 64 Bit Installed		
3	Processor & Chipset	9th Generation Intel i7 processor 2.1 GHz Turbo Boost Technology or better		
4	RAM	16 GB (2 x 8GB) DDR4-3200 SDRAM or better		
5	Graphics Card	NVIDIA (2 GB dedicated) or Equivalent		
6	Mouse	Wireless Optical Mouse		
7	Keyboard	Wireless Keyboard		
8	Network	Onboard Gigabit (10/100/1000 Mbps) Ethernet Controller		
9	Make / Brand	Any globally reputed Manufacturer presence in India & having manufacturing facility in India.		

8TB HDD

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	HDD Storage Capacity	Minimum 8TB Capacity	
2	Interface	SATA 6 Gb/s	
3	Cache (MB)	256	
4	Load/Unload Cycles	3,00,000	
5	Mean Time Between Failures (MTBF) (hours)	2,000,000 hr	
6	Operating (ambient, min °C)	5	
7	Operating (drive case, max °C)	70	
12	Make / Brand	Any globally reputed Manufacturer presence in India.	

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8 Port L2 PoE Switch

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Layer 2 Gigabit Ethernet Industrial Managed switch with 8x 10/100/1000BaseT PoE / PoE+ Ports & 2x combo 10/100/1000BaseT ports/SFP slots.		
2	Switching capacity: Minimum 20 Gbps		
3	PoE & PoE+ support with PoE power budget of 240 Watt or Higher		
4	Dual DC Power supply input for power redundancy. At least one power supply should be included with the switch from day one		
5	The switch should have 4K or more MAC address table size		
6	The switch should support 802.1q VLAN, GARP		
7	The switch should support following L2 features from day one: STP, RSTP, MSTP, 802.3x Flow control, One-to-one & Many-to-one mirroring, Jumbo frame support up to 9216bytes, 802.3ad & 802.1AX Link Aggregation, IGMP snooping v1, v2 & v3, MLD Snooping v1 & v2		
8	The switch should support following L3 features from day one: IPv4 & IPv6 static routing, IPv6 Neighbour Discovery (ND), at least 256 static ARP.		
9	The switch should have following Access control list features from day one: Access control list based on switch port, DSCP, IP address, MAC address, 802.1p priority, VLAN ID		
10	The switch should have following Security features from day one: 802.1x RADIUS authentication, Dynamic ARP Inspection, port security, IP source guard, DHCP server screening, DoS Attack Prevention.		
11	The switch should have following QoS features from day one: 802.1p based priority, at least 4 queues per port, strict priority & WRR, bandwidth control with minimum granularity of 64Kbps		
12	The switch should have following management features from day one: Physical console port, Web GUI, Telnet, SSL, SSH, SNMPv1v2v3, RMON, LLDP, LLDP-MED, sFlow, Syslog, NTP, BootP/DHCP Client		
13	Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability		
14	The switch should be DIN-Rail mountable.		
15	Operating temperature: 0°C to 65°C or better		
16	Enclosure should be IP30 rated & metal housing		
17	Make / Brand - Any globally reputed Manufacturer presence in India.		

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All Port SFP Core Switch

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Layer-3 Fully Managed Switch having 24x 1G SFP slots with 4x combo 10/100/1000BaseT ports & 4x 10G SFP+ slots.		
2	SFP slots should support IEEE 802.3z & IEEE 802.3u compliant transceivers & SFP+ slots should support IEEE 802.3z & IEEE 802.3ae compliant transceivers		
3	The switch should be 19" Rack Mount size.		
	THE SWITCH SHOULD HAVE FOLLOWING BASIC FEATURE FROM DAY ONE:		
4	The switch should have RJ45/mini-USB console port for Out of band CLI management & ethernet port for out of band IP management. It should have minimum one alarm port.		
5	The switch should have intelligent fans with sensor that provides different fan speed based on different temperature.		
6	The switch should have support for redundant power supply.		
7	The switch should have built-in hardware feature for both external event detection & alarm action		
8	The switch should have switching capacity at least 128Gbps & packet forwarding rate at least 95Mpps for 64-bytes packet size		
9	The switch should have non-blocking architecture & wire-speed performance under fully loaded condition.		
10	The switch should have virtual stacking capability of at least 25 switches in a stack.		
11	The switch should have physical stacking capability with at least 8 units per stack & at least 40Gbps of stacking bandwidth.		
12	The switch should have feature for flexible management of switch resources		
13	The switch should have 6kV Surge protection on all RJ45 access ports		
	THE SWITCH SHOULD HAVE FOLLOWING LAYER-2 FEATURE FROM DAY ONE:		
14	a) At least 64K MAC address table size. At least 1K static MAC support.		
15	b) Jumbo frame support for at least 12KB frame size.		
16	c) Flow-control features: 802.3x for full duplex & Head-of-line blocking prevention.		
17	d) UDLD or equivalent features.		
18	e) IEEE 802.1D (STP), 802.1w (RSTP) & 802.1s (MSTP) with at least 64 MSTP instances, Root Guard or equivalent features.		

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19	f) Avoidance of the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
20	g) Ethernet Ring Protection Switching (ERPS) with maximum 50milli second recovery time.		
21	h) IEEE 802.1AX & 802.3ad Link aggregation with at least 32 groups per device & at least 8 ports per groups. LACP.		
22	i) Port mirroring with at least 4 mirroring sessions. Should support Tx, Rx & both based mirroring. Should support one-to-one & many-to-one mirroring, flow-based mirroring, RSPAN.		
23	j) IGMP v1 v2 & v3 snooping with at least 8000 snooping groups. Should support IGMP snooping per VLAN, host-based IGMP snooping fast leave, at least 128 static IGMP groups, L2 multicast filtering		
24	k) MLD v1 & v2 snooping with at least 4000 snooping groups. Per VLAN MLD snooping. At least 128 static MLD groups.		
25	l) At least 4K VLAN groups, 802.1Q, 802.1v protocol based VLAN, support VLAN classification based on ether type, Q-in-Q, GVRP with at least 4K dynamic VLANs, Voice VLAN, Port-based VLAN, MAC-based VLAN, private VLAN, VLAN trunking, MVR (Multicast VLAN Registration) or equivalent feature.		
	THE SWITCH SHOULD HAVE FOLLOWING LAYER-3 FEATURE FROM DAY ONE:		
26	a) At least 16K routing table entry size with at least 512 static route entry support.		
27	b) Default route, RIPv1, RIPv2, RIPng, OSPFv2, OSPFv3, BGPv4, BGPv4+, Policy based route, Route preference, Route Redistribution, Bidirectional Forwarding Detection, MSDP		
28	c) Multicast forwarding table size: at least 2000, IGMPv1v2v3, MLDv1v2, IGMP filtering, static IP multicast route, PIM-DM, PIM-SM, PIM-SSM, PIM-Sparse-Dense mode, DVMRPv3, PIM-SMv6.		
29	e) IPv6 tunnelling, VRRP, IP helper		
	THE SWITCH SHOULD HAVE FOLLOWING QOS FEATURE FROM DAY ONE:		
30	a) IEEE 802.1p, DSCP, at least 8 queues per port.		
31	b) Queue handling methods: strict, weighted round robin, weighted deficit round robin, WRED		
32	c) CoS & classification of packets based on following parameters: VLAN ID, 802.1p priority, MAC address, Ether type, DSCP, protocol type, IPv4 address, TCP/UDP port number, IPv6 address, IPv6 traffic class		
33	d) Port & flow based bandwidth control with minimum granularity 8Kbps.		
34	e) Time based QoS.		

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	THE SWITCH SHOULD HAVE FOLLOWING SECURITY FEATURE FROM DAY ONE:		
35	a) Access control list based on VLAN, MAC address, 802.1p priority, DSCP, protocol type, TCP/UDP port, IPv4 address, IPv6 address, IPv6 traffic class		
36	b) Time based ACL.		
37	c) Binding of IP address & MAC address with the interface. Dynamic ARP Inspection. IP Source Guard. DHCPv6 Guard, IPv6 Route Advertisement Guard, IPv6 Neighbour Discovery Inspection, Duplicate Address Detection		
38	d) SSHv2 for both IPv4 & IPv6, SSLv1v2v3 for both IPv4 & IPv6, Port security with at least 12K MACs per port.		
39	e) Broadcast, multicast & unicast storm control.		
40	f) Protection of the CPU from protocol control packet attack.		
41	g) DHCP server screening, DHCP client filtering, ARP spoofing prevention, BPDU attack prevention, DoS attack prevention		
42	h) IEEE 802.1x -- RFC 3580, web-based access control, MAC based access control, guest VLAN, Microsoft NAP, RADIUS accounting.		
43	i) Authentication supported based on : Local data base, RADIUS server		
44	j) Web based access control for IPv6		
45	k) At least 4 level user account for management access. RADIUS & TACACS+ authentication for management access.		
	THE SWITCH SHOULD HAVE FOLLOWING MANAGEMENT FEATURE FROM DAY ONE:		
46	a) Web based -GUI (IPv4 & IPv6), CLI, telnet server & client (IPv4 & IPv6) , TFTP client (IPv4 & IPv6), FTP client (IPv4 & IPv6), SFTP server, Zmodem, SNMPv1v2cv3, Syslog. sFlow, ICMPv6.		
47	b) RMONv1 & v2, LLDP, LLDP-MED, BOOTP & DHCP client supporting both IPv4 & IPv6, DHCP relay option 82, DHCP relay option 60 & 61.		
48	c) Multiple images & configurations, SNTP, debug		
49	d) 802.3ah ethernet link OAM, 802.1ag CFM, Dying gasp.		
50	e) Inbuilt power saving technique on all Gigabit RJ-45 ports, IEEE 802.3az		
51	Make / Brand - Any globally reputed Manufacturer presence in India.		

All Port Copper Core Switch

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Core Switch - Layer-3 Fully Managed Switch having 20 X 1Gbps Copper Ports with 4x combo 1G SFP slots & 4x 10G SFP+ slots		

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2	SFP slots should support IEEE 802.3z & IEEE 802.3u compliant transceivers & SFP+ slots should support IEEE 802.3z & IEEE 802.3ae compliant transceivers		
3	The switch should be 19" Rack Mount size.		
	THE SWITCH SHOULD HAVE FOLLOWING BASIC FEATURE FROM DAY ONE:		
4	The switch should have RJ45/mini-USB console port for Out of band CLI management & ethernet port for out of band IP management. It should have minimum one alarm port.		
5	The switch should have intelligent fans with sensor that provides different fan speed based on different temperature.		
6	The switch should have support for redundant power supply.		
7	The switch should have built in hardware feature for both external event detection & alarm action		
8	The switch should have switching capacity at least 128Gbps & packet forwarding rate at least 95Mpps for 64-bytes packet size		
9	The switch should have non-blocking architecture & wire-speed performance under fully loaded condition.		
10	The switch should have virtual stacking capability of at least 25 switches in a stack.		
11	The switch should have physical stacking capability with at least 8 units per stack & at least 40Gbps of stacking bandwidth.		
12	The switch should have feature for flexible management of switch resources		
13	The switch should have 6kV Surge protection on all RJ45 access ports		
	THE SWITCH SHOULD HAVE FOLLOWING LAYER-2 FEATURE FROM DAY ONE:		
14	a) At least 64K MAC address table size. At least 1K static MAC support.		
15	b) Jumbo frame support for at least 12KB frame size.		
16	c) Flow-control features: 802.3x for full duplex & Head-of-line blocking prevention.		
17	d) UDLD or equivalent features.		
18	e) IEEE 802.1D (STP), 802.1w (RSTP) & 802.1s (MSTP) with at least 64 MSTP instances, Root Guard or equivalent features.		
19	f) Avoidance of the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
20	g) Ethernet Ring Protection Switching (ERPS) with maximum 50milli second recovery time.		
21	h) IEEE 802.1AX & 802.3ad Link aggregation with at least 32 groups per device & at least 8 ports per groups. LACP.		

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22	i) Port mirroring with at least 4 mirroring sessions. Should support Tx, Rx & both based mirroring. Should support one-to-one & many-to-one mirroring, flow based mirroring, RSPAN.		
23	j) IGMP v1 v2 & v3 snooping with at least 8000 snooping groups. Should support IGMP snooping per VLAN, host based IGMP snooping fast leave, at least 128 static IGMP groups, L2 multicast filtering		
24	k) MLD v1 & v2 snooping with at least 4000 snooping groups. Per VLAN MLD snooping. At least 128 static MLD groups.		
25	l) At least 4K VLAN groups, 802.1Q, 802.1v protocol based VLAN, support VLAN classification based on ether type, Q-in-Q, GVRP with at least 4K dynamic VLANs, Voice VLAN, Port-based VLAN, MAC-based VLAN, private VLAN, VLAN trunking, MVR (Multicast VLAN Registration) or equivalent feature.		
	THE SWITCH SHOULD HAVE FOLLOWING LAYER-3 FEATURE FROM DAY ONE:		
26	a) At least 16K routing table entry size with at least 512 static route entry support.		
27	b) Default route, RIPv1, RIPv2, RIPng, OSPFv2, OSPFv3, BGPv4, BGPv4+, Policy based route, Route preference, Route Redistribution, Bidirectional Forwarding Detection, MSDP.		
28	c) Multicast forwarding table size: at least 2000, IGMPv1v2v3, MLDv1v2, IGMP filtering, static IP multicast route, PIM-DM, PIM-SM, PIM-SSM, PIM-Sparse-Dense mode, DVMRPv3, PIM-SMv6.		
29	e) IPv6 tunnelling, VRRP, IP helper		
	THE SWITCH SHOULD HAVE FOLLOWING QOS FEATURE FROM DAY ONE:		
30	a) IEEE 802.1p, DSCP, at least 8 queues per port.		
31	b) Queue handling methods: strict, weighted round robin, weighted deficit round robin, WRED		
32	c) CoS & classification of packets based on following parameters: VLAN ID, 802.1p priority, MAC address, Ether type, DSCP, protocol type, IPv4 address, TCP/UDP port number, IPv6 address, IPv6 traffic class		
33	d) Port & flow based bandwidth control with minimum granularity 8Kbps.		
34	e) Time based QoS.		
	THE SWITCH SHOULD HAVE FOLLOWING SECURITY FEATURE FROM DAY ONE:		
35	a) Access control list based on VLAN, MAC address, 802.1p priority, DSCP, protocol type, TCP/UDP port, IPv4 address, IPv6 address, IPv6 traffic class		
36	b) Time based ACL.		
37	c) Binding of IP address & MAC address with the interface. Dynamic ARP Inspection. IP Source Guard. DHCPv6 Guard, IPv6 Route Advertisement Guard, IPv6 Neighbor Discovery Inspection, Duplicate Address Detection		

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38	d) SSHv2 for both IPv4 & IPv6, SSLv1v2v3 for both IPv4 & IPv6, Port security with at least 12K MACs per port.		
39	e) Broadcast, multicast & unicast storm control.		
40	f) Protection of the CPU from protocol control packet attack.		
41	g) DHCP server screening, DHCP client filtering, ARP spoofing prevention, BPDU attack prevention, DoS attack prevention		
42	h) IEEE 802.1x -- RFC 3580, web-based access control, MAC based access control, guest VLAN, Microsoft NAP, RADIUS accounting.		
43	i) Authentication supported based on : Local data base, RADIUS server		
44	j) Web based access control for IPv6		
45	k) At least 4 level user account for management access. RADIUS & TACACS+ authentication for management access.		
	THE SWITCH SHOULD HAVE FOLLOWING MANAGEMENT FEATURE FROM DAY ONE:		
46	a) Web based -GUI (IPv4 & IPv6), CLI, telnet server & client (IPv4 & IPv6) , TFTP client (IPv4 & IPv6), FTP client (IPv4 & IPv6), SFTP server, Zmodem, SNMPv1v2cv3, Syslog. sFlow, ICMPv6.		
47	b) RMONv1 & v2, LLDP, LLDP-MED, BooTP & DHCP client supporting both IPv4 & IPv6, DHCP relay option 82, DHCP relay option 60 & 61.		
48	c) Multiple images & configurations, Sntp, debug		
49	d) 802.3ah ethernet link OAM, 802.1ag CFM, Dying gasp.		
50	e) Inbuilt power saving technique on all Gigabit RJ-45 ports, IEEE 802.3az		
51	Make / Brand - Any globally reputed Manufacturer presence in India.		

600 VA Offline UPS

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Power Rating (In KVA / KW)	600VA / 360W or Better		
	Input			
2	Nominal Voltage	230 VAC		
3	Voltage Range	140 ~ 300 Vac (full load)		
4	Nominal Frequency	50/60 Hz		
	Output			
5	Voltage	230 Vac \pm 10% (Battery mode)		
6	Frequency Range	50/60 Hz \pm 1 Hz		
7	Waveform (Batt. Mode)	Simulated Sinewave		
8	Receptacle	India Socket x 3		
	Battery			

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9	Battery Type & Number	12V/7 Ah x 1 or better		
10	Recharge Time	4 ~ 6 hours to 90%		
11	Cold Start	Should Support		
	Indicator	LED		
	Environment			
12	Operating Temperature	0 ~ 40°C or Better		
13	Relative Humidity	0 ~ 90% (non-condensing)		
14	Audible Noise	< 40 dB		
	Conformance			
15	Safety	BIS		
16	Certification	ISO 9001, ISO14001, OSHAS18001, TL9000 , Factory calibration lab of manufacturer shall be NABL accredited in India		
17	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		

3 KVA Online UPS

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Power Rating	3kVA / 2.4kW or Better		
2	Input Voltage Range	110-300VAC		
3	Input Frequency Range	40 - 70Hz		
4	Input Power Factor	> 0.99 @ nominal voltage (input voltage)		
5	Output Power Factor	0.8		
6	Nominal Output voltage	200/208/220/230/240 VAC		
7	Output Voltage Regulation Frequency	± 1% (Battery mode)		
6	Output Crest Factor	03:01		
7	Efficiency (Min)	90%		
8	Output Socket	Output Socket. Minimum 4 nos - Indian Socket & 1 Terminal Block inbuilt to the UPS back		
9	Backup Required	Min.4680 VAH for 120min. (at 75% Load)		
10	USB Port	Should be available		
11	RS232 Port & SNMP enabled	RS232 port require & SNMP for Remote monitoring		
12	Inbuilt Automatic Bypass	Require		
13	Intelligent Battery Management	Require		

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14	Battery Deep Discharge Protection	Require		
15	ECO Mode	Require		
16	Operating Temperature	0 ~ 40°C or Better		
17	ROHS	Require		
18	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		
19	Battery Brand / Make	Any globally reputed Manufacturer presence in India.		

10 KVA Online UPS

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Capacity (In KVA / KW)	10 KVA 1-Phase Input / 10 KW 1-Phase Output DSP Controlled IGBT Rectifier or Higher		
	Input			
2	Voltage Range	100 – 280 VAC or Better		
3	Frequency Range	40Hz – 70Hz		
4	Power Factor	Greater than 0.95 at full load.		
5	Current Harmonic Distortion	< 3% or Better		
	Output			
6	Nominal voltage	220/230/240 VAC		
7	Crest Factor	3:1		
8	N+X Upto 4 Systems	Should Support		
9	Frequency	50/60 ±0.05 Hz		
10	Voltage Harmonic Distortion	< 2% (linear load) or Better		
11	Overload capability	< 105%: continuous; 105% ~ 125%: 2 minutes; 125% ~ 150%: 30 seconds		
12	AC-AC Efficiency	95% .		
13	ECO mode	Minimum 98% .		
	Battery			
14	Voltage	192-264Vdc adjustable or Better		
15	Charge Current	1.5 - 8A Selectable		
16	Audible Noise	< 50dBA		
17	Display	LED indicators and LCD display		
18	Communication Interfaces	REPOx1, RS-232 Port x1, USB Port x1, Parallel Port x2, Mini Slot x1		
	Environment			
19	Operating Temperature	0 ~ 40°C or Better 45 ~ 55°C (de-rating to 80%)		
20	Storage Temperature	-15 ~ 50°C or Better		

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21	Relative Humidity	5 ~ 95% (non-condensing)		
Battery Backup / Battery Bank & Charger				
22	Backup Required	Minimum 120		
23	Battery Bank Voltage	Minimum 240 VDC		
Display Panel (In-build LC Display & LED)				
24	Measurements (On LCD)	Input: Voltage & Frequency, Bypass: Voltage & Frequency, Output: Voltage, frequency, Kilowatt & kVA, Battery: Remaining time & Battery Level Indicator, Load Percentage & Load Level Indicator, Ambient temperature.		
25	Fault Indication (On LCD)	Inverter O/P voltage abnormal, Overload shutdown, Charge voltage too high, Damaged Batteries, Battery missing, Battery voltage to low & Over temperature Protection.		
Certifications				
26	Protection	IP-20		
27	Product Safety Certifications (Mandatory)	SURGE: IEC61000-4-5: level4 CS: IEC61000-4-6: level3 IEC61000-4-8 IEC 61000-2-2 EN 62040-2:2006 EN 61000-3-2:2009 CE & RoHS		
28	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		
29	Battery Brand / Make	Any globally reputed Manufacturer presence in India.		

6 KVA Online UPS

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Capacity (In KVA / KW)	6kVA 1-Phase Input / 6 KW 1-Phase Output DSP Controlled IGBT Rectifier		
Input				
2	Voltage Range	100 – 280 VAC or Better		
3	Frequency Range	40Hz – 70Hz		
4	Power Factor	Greater than 0.95 at full load.		
Output				
5	Nominal voltage	220/230/240 VAC		
6	Crest Factor	3:1		
7	N+X Support	4 Systems or higher		
8	AC-AC Efficiency	95%		
9	Voltage Harmonic Distortion	< 2% (linear load) or Better		

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10	Overload capability	< 105%: continuous; 105% ~ 125%: 2 minutes; 125% ~ 150%: 30 seconds		
11	AC-AC Efficiency	95% .		
12	ECO mode	Minimum 98% .		
Battery				
13	Voltage	192-264Vdc adjustable or Better		
14	Charge Current	1.5 - 8A Selectable		
15	Audible Noise	< 50dBA		
16	Display	LED indicators and LCD display		
17	Communication Interfaces	REPOx1, RS-232 Port x1, USB Port x1, Parallel Port x2, Mini Slot x1		
Environment				
18	Operating Temperature	0 ~ 40°C or Better 45 ~ 55°C (de-rating to 80%)		
19	Storage Temperature	-15 ~ 50°C or Better		
20	Relative Humidity	5 ~ 95% (non-condensing)		
Battery Backup / Battery Bank & Charger				
21	Backup Required	Minimum 120		
22	Battery Bank Voltage	Minimum 240 VDC		
Display Panel (In-build LC Display & LED)				
23	Measurements (On LCD)	Input: Voltage & Frequency, Bypass: Voltage & Frequency, Output: Voltage, frequency, Kilowatt & kVA, Battery: Remaining time & Battery Level Indicator, Load Percentage & Load Level Indicator, Ambient temperature.		
24	Fault Indication (On LCD)	Inverter O/P voltage abnormal, Overload shutdown, Charge voltage too high, Damaged Batteries, Battery missing, Battery voltage to low & Over temperature Protection.		
Certifications				
25	Protection	IP-20		
26	Product Safety Certifications (Mandatory)	SURGE: IEC61000-4-5:level4 CS: IEC61000-4-6: level3 IEC61000-4-8 IEC 61000-2-2 EN 62040-2:2006 EN 61000-3-2:2009 CE & RoHS		
27	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		
28	Battery Brand / Make	Any globally reputed Manufacturer presence in India.		

12 Core Fiber Optic Cable

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Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	12 Core Single Mode Outdoor Armored Fiber Optic Cable		
2	Corrugated Steel Tape Armoured		
3	Central loose tube with jelly compound		
4	Glass yarn in between steel tape & loose tube		
5	Sequential meter marking		
6	The fiber should fulfill the requirement of ITU-T REC G.652D, ISO 11801, IEC 60793-1/60794-1-2, Telecordia GR-20-core		
7	Outer Diameter: $9\pm 0.3\text{mm}$		
8	Thickness of HDPE Jacket: $1.8\pm 0.2\text{mm}$		
9	Pulling Tension: Short Term (2000N)		
10	Crush Load: 3000N/100mm		
11	Bend Radius: Short Term (20D)		
12	The fiber type is a Matched Cladding Single Mode		
13	The fiber is optimized for operation at 1310 nm and at 1550 nm.		
14	Nominal Mode Field Diameter: $9.2\ \mu\text{m}$		
15	Cladding Diameter: $125\ \mu\text{m}$		
16	PMD (ps/km): 0.2		
17	Cable Cut-off Wavelength: 1260nm		
18	Attenuation (of cable with fibers):		
19	At 1310 nm: $\leq 0.38\ \text{dB/km}$		
20	At 1550 nm : $\leq 0.25\ \text{dB/km}$		
21	Brand / Make - Any globally reputed Manufacturer presence in India.		

24 Core Fiber Optic Cable

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	24 Core Single Mode Outdoor Armored Fiber Optic Cable		
2	Corrugated Steel Tape Armoured		
3	Central loose tube with jelly compound		
4	Glass yarn in between steel tape & loose tube		
5	Sequential meter marking		
6	The fiber should fulfill the requirement of ITU-T REC G.652D, ISO 11801, IEC 60793-1/60794-1-2, Telecordia GR-20-core		
7	Outer Diameter: $9.5\pm 0.3\text{mm}$		
8	Thickness of HDPE Jacket: $1.8\pm 0.2\text{mm}$		
9	Pulling Tension: Short Term (2000N)		
10	Crush Load: 3000N/100mm		
11	Bend Radius: Short Term (20D)		
12	The fiber type is a Matched Cladding Single Mode		
13	The fiber is optimized for operation at 1310 nm and at 1550 nm.		

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14	Nominal Mode Field Diameter: 9.2 μm		
15	Cladding Diameter: 125 μm		
16	PMD (ps/km): 0.2		
17	Cable Cut-off Wavelength: 1260nm		
18	Attenuation (of cable with fibers):		
19	At 1310 nm: ≤ 0.38 dB/km		
20	At 1550 nm : ≤ 0.25 dB/km		
21	Brand / Make - Any globally reputed Manufacturer presence in India.		

UTP CAT-6 Outdoor Cable

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Category 6 Outdoor cable shall be compliant with ANSI/TIA/EIA-568-C.2 & and ISO/IEC 11801 channel performance up to 85 mtr.		
2	Category 6 Outdoor cable shall be capable of enhanced performance for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs.		
3	All Category 6 Outdoor cables shall meet or exceed the following characteristics:		
4	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, full separator. Half shall not be accepted.		
5	Category 6 Outdoor cable shall be UV Resistant		
6	Conductor dia: 23 AWG		
7	Insulation: Polyethylene		
8	Insulation Diameter : 1.04 ± 0.05 mm		
9	Sheath Thickness : 0.5 ± 0.15 mm		
10	Pairing: Two insulated conductor twisted together		
11	No.of Pair: 4 pair twisted together		
12	Sequential meter marking should be available		
13	Color of Jacket: Black / Blue / Grey / Yellow / Orange		
14	Outer Jacket: PE		
15	Inner Jacket : PVC		
16	Filler : Central Slit Film Cross Filler		
17	Outer Diameter : 7.1 mm		
18	BEND RADIUS: 8 X CABLE DIAMETER		
19	Thickness of Inner Jacket: $0.45 \text{ mm} \pm 0.05 \text{ mm}$		
20	Thickness of Outer Jacket : $0.55 \text{ mm} \pm 0.05 \text{ mm}$		
21	CONDUCTOR RESISTANCE (DC): 9.38Ω ohms /100mtr@20°C. MAX.		
22	RESISTANCE UNBALANCE: 5%MAX		
23	MUTUAL CAPACITANCE: 5.6 nF/100 mtrs MAX.		
24	CAPACITANCE UNBALANCE PAIR/GROUND: 330pF/100M MAX		
25	DELAY SKEW: ≤ 45 nS/100M		

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26	NORMAL VELOCITY OF PROPAGATION: 69%		
27	IMPEDANCE: $100 \pm 15\% \Omega$		
28	Temperature Rating: (- 20 to +60 C)		
29	Generally confirming to EIA/TIA 568-C.2 and IEC/ISO 11801		
30	Brand / Make - Any globally reputed Manufacturer presence in India.		

24 Port LIU

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters		
2	Aluminium & Cold Steel based material with powder coating for light mounting.		
3	Snap-in locker design, easy to change the adapter panels		
4	Should manage both splices and terminations		
5	Should have plastic Splice Tray capable of 24 fibers		
6	Should have 6 fiber magic sticker provision inside for 900um tight buffered fiber storing		
7	Accessory kit consists of cable ties, mounting ear screw and spiral wrap tube		
8	Front-Mounted Cable Saddles for jumper management		
9	Removable Top & Front cover for better access to interior of LIU		
10	Rubber grommet allow for pre-terminated fiber trunk installation, protects cable and minimizes dust build-up		
11	Adapter panel - Cold steel		
12	Adapters should have compact design & high precision		
13	Brand / Make - Any globally reputed Manufacturer presence in India.		

42U Floor Mount Standing Rack

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	19", 42U x 800mm width x 1000mm depth Floor Standing Networking Rack		
2	It should confirm to DIN 41494 or equivalent ISO standard		
3	It should be welded construction with steel frame		
4	Single Lockable tough end glass front door		
5	Vented dual metal door at the back, Vented side panels		
6	Powdered coated standard finish		
7	4 sets of casters wheel		
8	4 sets of adjustable levellers		

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9	Horizontal Power Distribution Unit with 12 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug		
10	Horizontal Cable Manager		
11	Mounting Hardware set		
12	At least 4nos. Of FANs (360CFM) for cooling purpose		
13	Brand / Make - Any globally reputed Manufacturer presence in India.		

SC-LC Fiber Optic Patch Cord

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	SC - LC SM FO Duplex Patch Cord 2 Meter Length		
	The optical fiber patch cords shall comply with the following specifications		
2	Optical Fiber – Single mode - OS1		
3	Connector: Zirconia ceramic ferrule		
4	Pre-radiuses and pre-polished ferrule		
5	Duplex Type		
6	Color-coded yellow for Single mode		
7	Insertion Loss : <0.3 db		
8	Cable: 9/125, SM		
9	Return Loss: >= 50dB for UPC		
10	Durability: 1000 mating cycle		
11	Working Temp: (- 20 deg. C to + 60 deg. C)		
12	Length: 2 Meter		
13	Brand / Make - Any globally reputed Manufacturer presence in India.		

LC-LC Fiber Optic Patch Cord

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	LC - LC SM FO Duplex Patch Cord 5 Meter Length		
	The optical fiber patch cords shall comply with the following specifications:		
2	Optical Fiber – Single mode - OS1		
3	Connector: Zirconia ceramic ferrule		
4	Pre-radiuses and pre-polished ferrule		
5	Duplex Type		
6	Color-coded Yellow for Single mode		
7	Insertion Loss : <0.3 db		
8	Cable: 9/125, SM		
9	Return Loss: >= 50dB for UPC		

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10	Durability: 1000 mating cycle		
11	Working Temp: (- 20 deg. C to + 60 deg. C)		
12	Length: 5 Meter		
13	Brand / Make - Any globally reputed Manufacturer presence in India.		

1Gbps FO Transceiver

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch)		
2	1000BASE-LX Single Mode SFP Transceiver with Duplex LC Connector		
3	Support IEEE 802.3z standard		
4	At least 10Km distance support on single mode fiber interface		
5	Transceiver module should be hot pluggable. MSA Compliant		
6	TTL signal detect indicator, Metal enclosure for lower EMI		
7	Operating wavelength: 1310nm		
8	Brand / Make - Any globally reputed Manufacturer presence in India.		

10Gbps FO Transceiver

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	10 Gbps Single Mode Fiber Optic Transceiver		
2	10GBASE-LR Single Mode SFP+ Transceiver with Duplex LC Connector		
3	Support IEEE 802.3ae standard		
4	At least 10Km distance support on single mode fiber interface		
5	Transceiver module should be hot pluggable. MSA Compliant		
6	Operating wavelength: 1310nm		
7	Brand / Make - Any globally reputed Manufacturer presence in India.		

Outdoor Weatherproof Customized Rack

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Metal Gauge	18 SWG or Better		
2	Colour	Off White / Gray / Cream		

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3	Colour Coating	Powder Coated		
4	Dimension (W X H X D)	As Per Requirement (Weather Proof Design with cooling arrangement)		
5	Lock Facility	Double Lock facility		

49" Display

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
	Panel			
1	Panel Technology	IPS		
2	Screen Size	Minimum 49" or Higher		
3	Aspect Ratio	16:09		
4	Native Resolution	3,840 x 2,160 (UHD, RGB) or Better		
5	Brightness	500 cd/m ² or higher		
6	Contrast Ratio	1100:1 or higher		
7	Bezel Width	9.9mm(T/R/L), 14.4mm(B) or Better		
8	Orientation	Landscape & Portrait (Optional)		
9	Input	HDMI, DP, DVI-D, Audio, USB 2.0		
10	External Control	RS232C In/Out, RJ45 (LAN) In, IR In		
11	Viewing Angle (H x V)	178 x 178 degree or Better		
12	Outputs	DP, Audio (Off/Fixed/Variable),		
13	Operation Temperature	0 °C to 40 °C or Better		
14	Operation Humidity	10 % to 80 %		
15	Power Supply	100-240V~, 50/60Hz		
16	Operating Hours	24 Hrs		
17	Safety	IEC / EN / UL		
18	EMC	FCC Class "A" / CE / KC		
19	Energy Star	Energy star 7.0		
20	Make / Brand	Any globally reputed Manufacturer presence in India.		

Double Door DB Box

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Type	8 Way SPN MCB DB		
2	Enclosure	Double Door with IP42/43 protection		
3	Isolator	1 No. 40 Amp Double Pole (Loaded)		
4	MCB	6 Nos. 10 Amp / 6 Amp Single Pole (loaded)		

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5	Supply	Single Phase 250V AC		
6	Brand / Make	Any globally reputed Manufacturer presence in India.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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SECTION - N

MANUFACTURER'S AUTHORIZATION FORM

Date:

To
Webel Technology limited
Plot-5, Block-BP, Sector-V
Salt Lake
Kolkata-700 091

Ref: Enquiry Notice No.: WTL/HPC/CCTV/22-23/043 dated 10.03.2023

WHEREAS _____ who are official producers of
_____ and having production facilities at
_____ do hereby authorize
_____ located at
_____ (hereinafter, the "Bidder") to submit a bid of the following
Products produced by us, for the Supply Requirements associated with the above Invitation for Bids.

1. _____
2. _____

When resold by _____, these products are subject to onsite comprehensive warranty from the date of final acceptance of the system by the customer.

We assure you that in the event of _____, not being able to fulfill its obligation as our Service Provider in respect of our standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements.

We also confirm that _____ is our authorized service provider/system integrator and can hence provide maintenance and upgrade support for our products.

We also confirm that the products quoted are on our current product list and are not likely to be discontinued with in from the day of this letter. We assure availability of spares for the products for the next five years after warranty.

We also confirm that the material will be delivered within six weeks from the date of placement of confirmed order.

We also confirm that adequate spare product will be kept available with the SI for 5 years.

Name _____ In the capacity of _____

Signed _____

Duly authorized to sign the authorization for and on behalf of _____

Dated on _____ day of _____ 2023

Note: This letter of authority must be on the letterhead of the Manufacturer and duly signed by an authorized signatory.

WTL/HPC/CCTV/22-23/043 dated 10.03.2023

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SECTION - O

DOCUMENTS TO BE SUBMITTED

Sl. No.	Criteria	Document	Reference Document
1	MAKE, MODEL & PART NUMBER (Section – L)	Yes/No	
2	TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT (Section – M)	Yes/No	
3	MANUFACTURER AUTHORISATION FORM (Section – N)	Yes/No	
4	NIT DECLARATION (Section – R)	Yes/No	
5	TECHNICAL CAPABILITY OF BIDDER (Section – F)	Yes/No	
6	FINANCIAL CAPABILITY OF BIDDER (Section – G)	Yes/No	
7	BIDDER'S DETAILS (Section – H)	Yes/No	
8	LIST OF CLIENTS OF SIMILAR ORDER (Section – I)	Yes/No	
9	BID Form (Section – K)	Yes/No	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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SECTION - P

FORMAT FOR UN-PRICE BOO

(Tender No. WTL/HPC/CCTV/22-23/043)

BILL OF QUANTITY - HOWRAH TRAFFIC GUARD								
SL.	DESCRIPTION	Unit	QTY.	Unit Price (₹)	Total Amount (Without GST) (₹)	GST %	GST Amount (₹)	Total Amount (With GST) (₹)
1	Bullet Camera - 5 Megapixel IR Vari-focal Bullet Network Camera, 2.7 mm–13.5 mm Motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10.	Nos	3					
2	Box Camera - 5 Megapixel CMOS Image Sensor Box Type Network Camera, WDR (120 dB), Support Micro SD memory.	Nos	14					
3	6 Megapixel 5-50mm Vari-focal Lens, Support IR Correction	Nos	14					
4	Vandal-Proof Housing for Box Camera, IR Range 100 Meter, IP67 & IK10.	Nos	14					
5	Mount Bracket for Box Camera	Nos	14					
6	General Surveillance Management Server & Storage system for Traffic Guard	Nos	1					
7	Central Video Monitoring Software	Nos	1					
8	Video Monitoring Camera Client License	Nos	17					
9	8 TB Sata Surveillance / Enterprise HDD	Nos	4					
10	Layer 2 Gigabit Ethernet Rugged Industrial Grade Managed switch with 8x 10/100/1000BaseT PoE / PoE+ Ports & 2x combo 10/100/1000BaseT ports/SFP slots. - 40°C~75°C operating temperature.	Nos	8					
11	Power Supply for Industrial PoE Switch	Nos	8					
12	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	8					
13	49" UHD 4K Display, Operation Hours 24	Nos	1					
14	Client Workstation - 9th Generation Intel Core i7 processor, 16 GB DDR4 RAM, Dedicated Non-Shared 2 GB NVIDIA Graphics Card, Operating System Latest , 64 Bit Installed.	Nos	1					
15	Wireless Key Board and Mouse with USB Extension Cord	Nos	1					
16	4K 5 Meter Length DP Cable with Mini DP Converter	Nos	1					
17	27U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1					

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18	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	1					
19	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots	Nos	1					
20	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots	Nos	1					
21	License for Core Switch (Standard Image to Enhanced Image license)	Nos	2					
22	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	40					
23	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	4					
24	Single Mode SC Pigtail - 1Mtr	Nos	24					
25	LC - LC SM FO Patch Cord 5 Meter Length	Nos	35					
26	SC - LC SM FO Patch Cord 2 Meter Length	Nos	2					
27	FOC TJ Box (Ballon Type)	Nos	30					
28	3 KVA/2.4kW 1-Phase Input / 1-Phase Output with IGBT Rectifier	Nos	1					
29	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	6					
30	600 VA Offline UPS	Nos	10					
31	32 Amp Power Socket with MCB	Nos	2					
32	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Scket and Gang Box	Nos	14					
33	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	1					
34	Wall / Pole Mount Outdoor Camera Bracket with Junction box for Camera	Nos	17					
35	Power Failure identification Sensor	Nos	8					
36	Installation, Commissioning and Configuration of Power Faliure Indication system.	Lot	1					
37	RJ-45 Connector	Nos	40					
38	UTP CAT-6 Patch Cord 2 Meters	Nos	2					
39	UTP CAT-6 Patch Cord 5 Meters	Nos	3					
40	Outdoor UTP CAT-6 Cable	Meter	1525					
41	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	1500					
42	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	270					
43	2 Core 0.5 sq mm No Armoured Cable for Sensor Connectivity	Meter	400					
44	Fiber Optic Cable - 6 Core Armoured Outdoor.	Meter	750					

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45	Fiber Optic Cable - 12 Core Armoured Outdoor.	Meter	1250					
46	Fiber Optic Cable - 24 Core Armoured Outdoor.	Meter	5000					
47	20 MM Non ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	3000					
48	Overhead and Surface Cable Laying Charge	Meter	10695					
49	Splicing Charge for OFC Cable	Lot	1					
50	Dedicated Earthpit at Control Room location with 300mm x 300mm copper plate thickness of 3mm with 6ft GI pipe striping with 25x3mm copper and filling the same with Chemical & Sand.	Nos	1					
51	Network Management, V LAN Configuration, IP assignment, Database Creation along with Network Backbone	Lot	1					
52	Design, Planning & Execution Charge for OFC Network	Lot	1					
53	Supply, Installation, Testing, Commissioning & Project Management Cost During 5 Years Comprehensive Warranty	Lot	1					
BILL OF QUANTITY - CONTROL ROOM								
54	General Surveillance Management Server & Storage system for Central Control	Nos	2					
55	Central Video Monitoring Software	Nos	1					
56	Video Monitoring Camera Client License	Nos	200					
57	8 TB Sata Surveillance / Enterprise HDD	Nos	24					
58	49" UHD 4K Display, Operation Hours 24	Nos	9					
59	Client Workstation - 9th Genaration Intel Core i7 processor, 16 GB DDR4 RAM, Dedicated Non-Shared 2 GB NVIDIA Graphics Card, Operating System Latest , 64 Bit Installed.	Nos	9					
60	Wireless Key Board and Mouse with USB Extention Cord	Nos	9					
61	4K 5 Meter Length DP Cable with Mini DP Convertor	Nos	9					
62	42U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1					
63	27U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1					
64	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	3					
65	Cabinet / Rack for Workstation staging	Nos	2					
66	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots	Nos	3					

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67	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots	Nos	4					
68	License for Core Switch (Standard Image to Enhanced Image license)	Nos	7					
69	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	96					
70	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	6					
71	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 50km, support)	Nos	4					
72	Single Mode SC Pigtail - 1Mtr	Nos	72					
73	LC - LC SM FO Patch Cord 5 Meter Length	Nos	36					
74	SC - LC SM FO Patch Cord 2 Meter Length	Nos	10					
75	FOC TJ Box (Ballon Type)	Nos	10					
76	10 KVA 1-Phase Input / 10 KW 1-Phase Output DSP Controlled IGBT Rectifier	Nos	1					
77	120 Mins Backup 12 V, 100 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	20					
78	6 KVA 1-Phase Input / 6 KW 1-Phase Output DSP Controlled IGBT Rectifier	Nos	2					
79	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	32					
80	32 Amp Power Socket with MCB	Nos	4					
81	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	2					
82	UTP CAT-6 Patch Cord 5 Meters	Nos	305					
83	Outdoor UTP CAT-6 Cable	Meter	10					
84	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	100					
85	6 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	810					
86	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	540					
87	20 MM Non ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	100					
88	Overhead and Surface Cable Laying Charge	Meter	1460					
89	Splicing Charge for OFC Cable	Lot	2					
90	Dedicated Earthpit at Control Room location with 300mm x 300mm copper plate thickness of 3mm with 6ft GI pipe stripping with 25x3mm copper and filling the same with Chemical & Sand.	Nos	2					
91	Network Management, V LAN Configuration, IP assignment, Database Creation along with Network Backbone	Lot	1					

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92	Design, Planning & Execution Charge for OFC Network	Lot	2					
93	2 Ton Split Inverter AC 3 Star Copper	Nos	6					
94	24 X 7 Automatic Changeover switch for Control Room	Nos	2					
95	Supply, Installation, Testing, Commissioning & Project Management Cost During 5 Years Comprehensive Warranty	Lot	1					
TOTAL								

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of Company: _____

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SECTION – Q

GUIDANCE FOR E-TENDERING

Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the Bidders to participate in e-Tendering.

- **Registration of Bidder:**
Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in>. The Bidder is to click on the link for e-Tendering site as given on the web portal.
- **Digital Signature Certificate (DSC):**
Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated above. DSC is given as a USB e-Token.
- The Bidder can search & download N.I.T. & BOQ electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.
- **Participation in more than one work:**
A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If, found to be applied severally in a single job all the applications will be rejected.
- **Submission of Tenders:**
Tenders are to be submitted through online to the website stated above in two folders at a time, one in Techno Commercial Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats)

The proposal should contain scanned copies of the following in two covers (folders).

Techno Commercial Cover:

Technical Document1 (scanned & join in pdf format then upload)

1. Bid Form as per format (Section – K)
2. Other documents as required

Technical Document2 (scanned & join in pdf format then upload)

1. N I T Declaration duly stamped & signed in letter head, Section - R
2. Declaration of Eligibility Criteria, Section - O

Technical Compliance

1. Detailed Technical Specification, Section – M
2. Make, Model & Part Number, Section – L
3. Manufacturer Authorization/OEM Declaration, Section – N

Financial Cover:

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Plot – 5, Block – BP, Sector – V,

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BOQ will be downloaded and same will be uploaded with quoted rates. While uploading BOQ file name shall remain unchanged. Absence of this document shall lead to summary rejection of the bid.

NON-STATUTORY COVER (MY SPACE) CONTAIN FOLLOWING DOCUMENT:

(In each folder, scanned copy will be uploaded with single file having multiple pages)

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none">• GST Registration Certificate• PAN• Trade License• Document as per Section – C
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none">• Document as per Section – C
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none">• Company Profile (Not more than 3 pages)• ISO Certificate as per Section – C
C	CREDENTIAL	CREDENTIAL 1	Order copies as per Section – C
		CREDENTIAL 2	<ul style="list-style-type: none">• Product brochure• Other documents, if any
D	DECLARATION	DECLARATION 1	List of Clients as per format (Section – I)
		DECLARATION 2	Financial Capability of Bidder as per format (Section – G)
		DECLARATION 3	Bidder's Details as per format (Section – H)
		DECLARATION 4	Details of Order Executed as per format (Section – F)
		DECLARATION 5	<ul style="list-style-type: none">• Documents as per Section – C• Other documents
F	FINANCIAL INFO	P/L & BALANCE SHEET 2019-2020	P/L & BALANCE SHEET 2019-2020
		P/L & BALANCE SHEET 2020-2021	P/L & BALANCE SHEET 2020-2021
		P/L & BALANCE SHEET 2021-2022	P/L & BALANCE SHEET 2021-2022

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SECTION - R

NIT DECLARATION

(Bidders are requested to furnish the Format given in this section, filling the entire Blank and to be submitted on Bidder’s Letter Head)

To
Webel Technology Limited
Plot – 5, Block – BP, Sector -
V, Salt Lake City,
Kolkata – 700091.

Sub: Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty.

Dear Sir,

We the undersigned bidder/(s) declare that we have read and examined in details the specifications and other documents of the subject Tender No. WTL/HPC/CCTV/22-23/043 dated 10.03.2023 for Supply, Installation, Testing, Commissioning (SITC) of IP Based CCTV Surveillance system under Howrah Police Commissionerate Jurisdiction with Five (5) Years Comprehensive Warranty. published by Webel Technology Limited in e-Tender website.

We further declare that we have agreed and accepted all the clauses / sub-clauses / formats / terms & conditions other requirements related to the said tender and we will abide by the same as mentioned in the tender document while participating and executing the said tender.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, thisday of2023

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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SECTION – S

FORMAT FOR PRE-BID MEETING QUERY

(Tender No. WTL/HPC/CCTV/22-23/043)

Name of the Bidder:

Queries

Sl. No.	Section No.	Clause No.	Page No.	Queries

Note: The filled form to be submitted in XLS & PDF Format. There is a cut off date for receiving of queries before Pre Bid Meeting. Queries received after the cutoff period will not be accepted. The Purchaser reserves the right to respond all queries over e-mail.

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____