

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) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street” 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/KP/CCTV/22-23/015 dated 26.07.2022
2.	Tender Version	1.0
3.	Brief description of material	Supply, Installation, Testing, Commissioning (SITC) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street
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. 10,00,000.00 (Rupees Ten lakhs only). The amount to be transferred online through e-tender portal.
6.	Date of Downloading	26.07.2022
7.	Pre-Bid Meeting date & time	01.08.2022 at 11.30 Hrs. (On-Line Meeting) <ul style="list-style-type: none">• Pre-Bid meeting will be organizing online platform only.• Only queries reaching WTL by 29.07.2022 at 16.00 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.• Only queries reaching WTL by 29.07.2022 at 16.00 Hrs. will be taken for decision.• Queries will be sent to Manager (Purchase) purchase@wtl.co

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8.	Bid Submission Start date & time	05.08.2022 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	10.08.2022 at 12.30.hrs.
11.	Date & time of Technical Bid opening	12.08.2022 at 12.30.hrs.
5.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
5.	Contact Number	033-23673403-06

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DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	26.07.2022
2	Documents download/sale start date (Online)	26.07.2022
3	Last Date and time of sending the queries (Offline)	29.07.2022 & 16.00 hrs.
4	Pre Bid Meeting (On Line)	01.08.2022 & 11.30 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	05.08.2022 & 14.00 hrs.
7	Last Date & time of submission of Earnest Money Deposit & submission of remittance details	Before Uploading of Tender
8	Last Date & time of submission of Tender Fee & submission of remittance details	Before Uploading of Tender
9	Bid Submission closing date & time (On line)	10.08.2022 & 12.30 hrs.
10	Bid opening date & time for Technical Proposals (On line)	12.08.2022 & 12.30 hrs.
11	Date of uploading the final list of Technically Qualified Bidder (online) after disposal of appeals, if any	-
12	Date for opening of Financial Bid (Online)	-

1. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> indirectly with the help of Digital Signature Certificate. Necessary Tender fee may be remitted online through e-tender portal in favour of “Webel Technology Limited” and also to be documented through e-filing. Necessary Earnest Money Deposit (EMD) may be remitted online through e-tender portal in favour of “Webel Technology Limited” and also to be documented through e-filing.
2. Both Techno Commercial Bid and Financial Bid are to be submitted concurrently duly digitally signed in the website <https://wbtenders.gov.in>
3. Tender documents may be downloaded from website and submission of Techno Commercial Bid and Financial Bid will be done as per Time Schedule stated in Section – C of this Tender Document.
4. The Financial Bid of the prospective Bidder will be considered only if the Techno Commercial Bid of the bidder is found qualified by the Tender Committee. The decision of the “Tender Committee” will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.
5. All clarifications / corrigenda will be published only on the <https://wbtenders.gov.in>.

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CONTENTS OF THE TENDER DOCUMENT

The Tender document comprises of the following:

- SECTION – A BACKGROUND & OBJECTIVE OF THE PROJECT
- SECTION – B SCOPE OF WORK & BILL OF MATERIAL
- SECTION – C ELIGIBILITY CRITERIA
- SECTION – D INSTRUCTIONS TO BIDDER
- SECTION – E TECHNO COMMERCIAL EVALUATION & AWARDDING OF CONTRACT
- SECTION – F FORMAT FOR TECHNICAL CAPABILITY OF BIDDER
- SECTION – G FORMAT FOR FINANCIAL CAPABILITY OF BIDDER
- SECTION – H FORMAT FOR BIDDER'S DETAILS
- SECTION – I FORMAT FOR LIST OF CLIENTS OF SIMILAR ORDER
- SECTION – J PROFORMA FOR PERFORMANCE BANK GUARANTEE
- SECTION – K BID FORM
- SECTION – L MAKE, MODEL & PART NUMBER
- SECTION – M TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT
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- SECTION – O FORMAT FOR DOCUMENTS TO BE SUBMITTED
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- SECTION – Q NIT DECLARATION
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SECTION – A

BACKGROUND & OBJECTIVE OF THE PROJECT

These areas (Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road, Turf Road & its Surroundings Area) are one of the most important places in terms of VVIP Security.

These areas become the most vulnerable and one of the populated areas in Kolkata. There are lots of VIP movements in every day and within this area world famous Kalighat Temple also located. The purpose of this project VVIP Security and Surveillance, Monitor VVIP Movement, 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) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street
2.	Project User	Directorate of Security, WB / Kolkata Police
3.	Execution Partner	Webel Technology Limited
5.	Location	Hon'ble CM Residence surrounding Area & MP Office surrounding area
6.	Objective of the Project	<ul style="list-style-type: none">• VVIP Security and Surveillance• Monitor VVIP Movement• 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	1 Year (Products & Installation) Warranty + 5 Years Comprehensive Maintenance Contract
9.	Total No of Surveillance Camera	145 Number (138 Nos. Varifocal Bullet Camera & 7 Nos. PTZ Camera)
10.	Total No of ANPR Camera	36 Numbers
12.	Project Completion Period	One Month

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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) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee

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 New Cameras and Existing Cameras & NVRs should be seamlessly integrated with proposed new Servers, Storage & VMS solution. 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 Kolkata 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 KP and the implementation partner WTL.
- 3) Integration of the hardware equipment with the existing Hardware-based video surveillance system, implement analytics solutions should work with the Existing equipment installed, with minimum complexity.
- 4) Optimize the cost for passive network laying, considering existing work will involve of OFC new cable laying.

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- 5) Reuse the existing OFC Network backbone, to reduce implementation risk, reduce cost and achieve smooth Integration.

The following are the highlights of the Existing survey of the project.

- 107 Cameras (Bullet Camera) installed in 39 locations across the Harish Chatterjee Street, Harish Mukherjee Road & Kalighat Road (Make Dahua)

The list of sites already implemented in existing CCTV are as shown below:

SL	Location
1	Hazra Road- Harish Chatterjee Stret Crossing
2	Passage leading to milan sangha club i.e. 33,Harish Chatterjee Street
3	Lane leading to Kalighat Road in the east and starting from 38 Harish Chatterjee Street (Galakata Goli)
4	39, A Harish Chatterjee Street, Kerosene oli shop and opposite to Dabtala Goli
5	Lane in front of 30A Harish Chatterjee Street (Garrage) Leading to Kalighat Road (Potuapara)
6	Lane in front of 29D, Harish Chatterjee Street leading to Kalighat Road (Potuapara)
7	Lane by The sid eof 29/C, Harish Chatterjee Street to the west towards Adi Ganga (Sitalamata Ghat)
8	Lane in front of 29/C towards potuapara in the east and by the side of 46A, Harish Chatterjee Street
9	Lane in front of 25, Harish Chatterjee Street (Gobinda Ghoshal Lane) leading to Kalighat road
10	Lane in front of 22, Harish Chatterjee Street leading to Kalighat road in the east
11	Road in Front of 17B, Harish Chatterjee Street i.e. at the crossing of Balaram Bose ghat road & Harish Chatterjee Street
12	Lane by the side of 10, Balaram Bose Ghat road
13	Crossing of Govinda Ghosal Lane and Balaram Bose Ghat Road
14	Crossing of Harish Mukherjee Road and Balaram Bose Ghat Road
15	Crossing of Kalighat Road & Harish Mukherjee Road
16	Crossing of Govinda Ghosal Lane and Kalighat Road, i.e. infront of 43/1,kalighat Road
17	Lane Starting from 44, Kalighat Road
18	Lane from 49, kalighat road and leading to Harish Chatterjee Street
19	Lane from 56B, Kalighat Road leading to Harish Chaterjee Street in the West
20	Lane from 53A, Kalighat Road leading to East Side to Harish Mukherjee road
21	Lane Starting from 56B, Kalighat Road South Side (Kalighat Young Staff Club)
22	Lane Starting from 70, Kalighat Road Leading to Harish Chatterjee Street in the West
23	Lane starting from 82, Kalighat Roadand leading to 38, Harish Chatterjee Street in west
24	Lane Starting from 117, Kalighat Road (potuapara) and leading to Hazra Road
25	Crossing of Hazra Road and Kalighat Road (Nortnen Side)
26	Roopchand Mukherjee Lane & Harish Mukhaerjee Road Crossing
27	Rani Shankari Lane & Harish Chatterjee Street
28	Lane Leading to Kalighat Road in the west and Starting from 180B, & 184 Harish Mukherjee Road
29	Crossing of Harish Mukherjee Road and Basanta Bose Road (115 Harish Mukrerjee Road)
30	Rani Shankari Lane & Harish Mukherjee Road (Prependicular Cross - Section)

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31	Lane from 200, Harish Mukherjee Road & Leading to Potuapara-kalighat Road in West
32	Harish Mukherjee Road - Hazra Road Crossing (opp. Kalighat Fire Service Station)
33	Lane in Between Alipore Central Correctional Home & Adi Ganga (Near Hanuman Temple)
34	Rakhal Das Auddy Road & Judges Court Road Crossing
35	Opposite Sitala Matar Ghat on the Lane in Between Alipore Correctional Home & Adi Ganga (Tolly Canal)
36	Sentry Post No.-1 at 30B, Harish Chatterjee Street (AITMC Office/VIP Residence)
37	Sentry Post No.-2 at 30B, Harish Chatterjee Street
38	Sentry Post No.-3 at 30B, Harish Chatterjee Street - Northern Side
39	Sentry Post No.-4(North-east) 30B, Harish Chatterjee Street

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 Directorate Security (SB) & KP** – 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 materials as per the BOQ for CCTV, Network equipment, Storage, Servers, Workstations and all items and accessories required at KP. 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 2 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 3 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 with New & Existing Backbone path** - This is the most critical work for this project. SI shall plan and implement proper termination of new OFC with the existing 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 and submit to WTL for approval and implementation.

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- **Testing and Commissioning Scope**

- ❖ Link Testing – SI shall perform the link testing for each & every location point from Server 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 handover of system.

- **Training & Documentation** - SI shall prepare and train KP / SB 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 – New 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.

Part A --- Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its Surrounding Areas

Due to Security reason & maintaining the secrecy of this installation, WTL will provide the exact Camera Installation details to the selected bidder only.

Part B --- Kalighat Police Station Jurisdiction Area

Due to Security reason & maintaining the secrecy of this installation, WTL will provide the exact Camera Installation details to the selected bidder only.

Part C --- Some area of Camac Street, Kalighat Road and Harish Mukherjee

Due to Security reason & maintaining the secrecy of this installation, WTL will provide the exact Camera Installation details to the selected bidder only.

Part D --- Installation of 29 CCTV Cameras at the 30B, Harish Chatterjee Street, Residence of Hon'ble CM/WB

Due to Security reason & maintaining the secrecy of this installation, WTL will provide the exact Camera Installation details to the selected bidder only.

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1.2 BILL OF MATERIALS (BOM)

BILL OF QUANTITY -- Part A			
SL. NO.	DESCRIPTION	UNIT	QTY.
1	Bullet Camera - 4K CMOS Sensor IP IR Bullet Camera, 2.7 mm–12 mm motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10.	Nos	52
2	4 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, Auto tracking, IR distance up to 250m, IP67, IK10.	Nos	5
3	Pole Mount PTZ Camera Fixing Bracket	Nos	5
4	Video Surveillance Joystick control for PTZ network Cameras Operation	Nos	1
5	4 Megapixel CMOS Sensor AI Enforcement Camera, H.265 and H.264 dual codec, Built-in 10 mm–40 mm motorized vari-focal lens, IP67 rated,	Nos	20
6	IR Illuminator, 24 nos IR light LED lamp, 850nm, AC 90-280VAC.	Nos	31
7	Three-Axis Rotation Bracket for Speed Camera Housing	Nos	20
8	General Surveillance Management Server & Storage system with ANPR integration	Nos	3
9	Central Video Monitoring Software	Nos	1
10	Video Monitoring Camera Connection License	Nos	57
11	ANPR Camera Connection License	Nos	20
12	8 TB Sata Enterprise HDD	Nos	45
13	Single Lane Gantry for ANPR Camera	Nos	7
14	Two Lane Gantry for ANPR Camera	Nos	4
15	Layer 2 Gigabit Ethernet Rugged Industrial Grade Managed switch with 8x 10/100/1000Base T PoE / PoE+ Ports & 2x combo 10/100/1000BaseT ports/SFP slots. - 40°C~75°C operating temperature.	Nos	36
16	Power Supply for Industrial PoE Switch	Nos	36
17	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	36
18	49" UHD 4K Display, Operation Hours 24	Nos	4
19	Client Workstation - 10th Generation Intel Core i7 8 Core processor, 32 GB DDR4 RAM, Dedicated Non-Shared 4 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed.	Nos	8
20	Wireless Key Board and Mouse with USB Extension Cord	Nos	8
21	4K 10 Meter Length DP Cable with Mini DP Convertor	Nos	8
22	42U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	2
23	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	2
24	Cabinet / Rack for Workstation staging	Nos	1
25	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
26	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	2
27	License for Core Switch (Standard Image to Enhanced Image license)	Nos	3

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28	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	76
29	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	8
30	Single Mode SC Pigtail - 1Mtr	Nos	72
31	LC - LC SM FO Patch Cord 5 Meter Length	Nos	46
32	SC - LC SM FO Patch Cord 2 Meter Length	Nos	48
33	FOC TJ Box (Ballon Type)	Nos	50
34	10 KVA / 10KW (1/1) True On-Line Double Conversion IGBT Based Online UPS	Nos	1
35	120 Mins Backup 12 V, 100 ah AH 20 No's of SMF Battery with battery Rack with interconnecting cable	Nos	20
36	32 Amp Power Socket with MCB	Nos	3
37	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	36
38	Power Distribution Unit (5 Pin 5 Amp Socket X 5 Nos)	Nos	36
39	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	2
40	Wall / Pole Mount Outdoor Camera Bracket for Bullet	Nos	52
41	RJ-45 Connector	Nos	200
42	UTP CAT-6 Patch Cord 2 Meters	Nos	20
43	UTP CAT-6 Patch Cord 5 Meters	Nos	9
44	Outdoor UTP CAT-6 Cable	Meter	2440
45	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	5000
46	4 sq MM FRLS Multistrand Power Cable (3 Different Color x 90 Meter Each)	Meter	540
47	1.0 sq MM FRLS Multi stand Cable (2 Different Color x 90 Meter Each)	Nos	180
48	Fiber Optic Cable - 24 Core SM 9/125, Non-metallic Armoured Outdoor.	Meter	6500
49	20 MM ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	6500
50	Overhead and Surface Cable Laying Charge	Meter	14210
51	Underground Cable laying Charge	Meter	450
52	Splicing Charge for OFC Cable	Lot	1
53	7 Meter Height M.S. / G.I Pole with Base Plate & Top Cover including RCC foundation with Installation & Enamel Color Paint.	Nos	9
54	Underground Cable laying through Manual Digging work only for junction Point within particular location.	Meter	450
55	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
56	40 MM HDPE Pipe with all Accessories	Meter	450
57	Design, Planning & Execution Charge for OFC Network	Lot	1
58	Micro Controller Based 2 Zone Conventional Fire Alarm system	Nos	1
59	Smoke Detector with Base	Nos	4
60	Heat Detector with Base	Nos	2

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61	12v 7.5 Ah Sealed Maintenance Free Battery	Nos	2
62	24V Sounder for Fire Alarm	Nos	1
63	Manual Call Point	Nos	1
64	ABC Type Fire Extinguisher Wall Mount (5 kg)	Nos	2
65	1 Ton Split AC 5 Star Copper	Nos	2
66	24 X 7 Automatic Changeover switch for Control Room	Nos	1
67	Supply, Installation, Testing, Commissioning & Project Management Cost During 1 Year Warranty Period.	Lot	1
68	Comprehensive Maintenance Contract after 1 Year Warranty period.	Years	5

BILL OF QUANTITY -- Part B

SL. NO.	DESCRIPTION	UNIT	QTY.
1	Bullet Camera - 4K CMOS Sensor IP IR Bullet Camera, 2.7 mm–12 mm motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10.	Nos	57
2	General Surveillance Management Server & Storage system	Nos	2
3	Central Video Monitoring Software	Nos	1
4	Video Monitoring Camera Connection License	Nos	57
5	8 TB Sata Enterprise HDD	Nos	30
6	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	18
7	Power Supply for Industrial PoE Switch	Nos	18
8	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	18
9	49" UHD 4K Display, Operation Hours 24	Nos	2
10	Client Workstation - 10th Generation Intel Core i7 8 Core processor, 32 GB DDR4 RAM, Dedicated Non-Shared 4 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed.	Nos	2
11	Wireless Key Board and Mouse with USB Extension cord	Nos	2
12	4K 10 Meter Length DP Cable with Mini DP Convertor	Nos	2
13	42U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	1
14	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	1
15	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4x 10G SFP+ slots	Nos	1
16	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4x 10G SFP+ slots	Nos	1
17	License for Core Switch (Standard Image to Enhanced Image license)	Nos	2
18	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	38
19	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	2

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20	Single Mode SC Pigtail - 1Mtr	Nos	24
21	LC - LC SM FO Patch Cord 5 Meter Length	Nos	22
22	SC - LC SM FO Patch Cord 2 Meter Length	Nos	24
23	FOC TJ Box (Ballon Type)	Nos	25
24	10 KVA / 10KW (1/1) True On Line Double Conversion IGBT Based Online UPS	Nos	1
25	120 Mins Backup 12 V, 100 ah AH 20 No's of SMF Battery with battery Rack with interconnecting cable	Nos	20
26	600 VA Offline UPS	Nos	18
27	32 Amp Power Socket with MCB	Nos	1
28	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	18
29	Power Distribution Unit (5 Pin 5 Amp Socket X 5 Nos)	Nos	18
30	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	1
31	Wall / Pole Mount Outdoor Camera Bracket for Bullet	Nos	57
32	RJ-45 Connector	Nos	120
33	UTP CAT-6 Patch Cord 2 Meters	Nos	2
34	UTP CAT-6 Patch Cord 5 Meters	Nos	2
35	Outdoor UTP CAT-6 Cable	Meter	1220
36	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	2500
37	4 sq MM FRLS Multi stand Power Cable (3 Different Color x 90 Meter Each)	Meter	540
38	Fiber Optic Cable - 24 Core SM 9/125, Non-metallic Armoured Outdoor.	Meter	7000
39	20 MM ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	3200
40	Overhead and Surface Cable Laying Charge	Meter	10990
41	Splicing Charge for OFC Cable	Lot	1
42	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
43	Design, Planning & Execution Charge for OFC Network	Lot	1
44	Micro Controller Based 2 Zone Conventional Fire Alarm system	Nos	1
45	Smoke Detector with Base	Nos	2
46	Heat Detector with Base	Nos	1
47	12v 7.5 Ah Sealed Maintenance Free Battery	Nos	2
48	24V Sounder for Fire Alarm	Nos	1
49	Manual Call Point	Nos	1
50	ABC Type Fire Extinguisher Wall Mount (5 kg)	Nos	2
51	1 Ton Split AC 5 Star Copper	Nos	2
52	24 X 7 Automatic Changeover switch for Control Room	Nos	1
53	Supply, Installation, Testing, Commissioning & Project Management Cost During 1 Year Warranty period.	Lot	1
54	Comprehensive Maintenance Contract after 1 Year Warranty period.	Years	5

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BILL OF QUANTITY -- Part C

SL. NO.	DESCRIPTION	UNIT	QTY.
1	4 Megapixel CMOS Sensor AI Enforcement Camera, H.265 and H.264 dual codec, Built-in 10 mm–40 mm motorized vari-focal lens, IP67 rated.	Nos	16
2	IR Illuminator, 24 nos IR light LED lamp, 850nm, AC 90-280VAC.	Nos	16
3	Three-Axis Rotation Bracket for Speed Camera Housing	Nos	16
4	General Surveillance Management Server & Storage system with ANPR integration	Nos	3
5	2 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, WDR (120dB), Auto tracking, IR distance up to 250m, IP67, IK10.	Nos	2
6	Pole Mount PTZ Camera Fixing Bracket	Nos	2
7	Video Surveillance Joystick control for PTZ network Cameras Operation	Nos	1
8	Central Video Monitoring Software	Nos	1
9	Video Monitoring Camera Connection License	Nos	2
10	ANPR Camera Connection License	Nos	16
11	8 TB Sata Enterprise HDD	Nos	13
12	Single Lane Gantry for ANPR Camera	Nos	1
13	Two Lane Gantry for ANPR Camera	Nos	6
14	6' Wall Mount Arm	Nos	1
15	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	8
16	49" UHD 4K Display, Operation Hours 24	Nos	3
17	Client Workstation - 10th Generation Intel Core i7 8 Core processor, 32 GB DDR4 RAM, Dedicated Non-Shared 4 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed.	Nos	3
18	Wireless Key Board and Mouse with USB Extension Cord	Nos	3
19	4K 10 Meter Length DP Cable with Mini DP Convertor	Nos	3
20	12U, 800mm Width x 800mm Depth, Wall Mount Rack	Nos	3
21	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	5
22	Power Supply for Industrial PoE Switch	Nos	5
23	Smart Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4 x 10G SFP+ Slots	Nos	3
24	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	10
25	LC - LC SM FO Patch Cord 5 Meter Length	Nos	10
26	FOC TJ Box (Ballon Type)	Nos	13
27	1 KVA Offline UPS	Nos	6
28	32 Amp Power Socket with MCB	Nos	3
29	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	3
30	Power Distribution Unit (5 Pin 5 Amp Socket X 5 Nos)	Nos	8

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31	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	3
32	RJ-45 Connector	Nos	50
33	UTP CAT-6 Patch Cord 2 Meters	Nos	3
34	UTP CAT-6 Patch Cord 5 Meters	Nos	3
35	Outdoor UTP CAT-6 Cable	Meter	915
36	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	700
37	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	540
38	Fiber Optic Cable - 24 Core SM 9/125, Nonmetallic Armoured Outdoor.	Meter	1500
39	20 MM ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	1500
40	Overhead and Surface Cable Laying Charge	Meter	3655
41	Splicing Charge for OFC Cable	Lot	1
42	Supply, Installation, Testing, Commissioning & Project Management Cost During 1 Year Warranty period.	Lot	1
43	Comprehensive Maintenance Contract after 1 Year Warranty period.	Years	5

BILL OF QUANTITY -- Part D

SL. NO.	DESCRIPTION	UNIT	QTY.
1	Bullet Camera - 4K CMOS Sensor IP IR Bullet Camera, 2.7 mm–12 mm motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10.	Nos	29
2	Video Monitoring Camera Connection License	Nos	29
3	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
4	Power Supply for Industrial PoE Switch	Nos	8
5	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	8
6	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	1
7	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	18
8	Single Mode SC Pigtail - 1Mtr	Nos	24
9	LC - LC SM FO Patch Cord 5 Meter Length	Nos	10
10	SC - LC SM FO Patch Cord 2 Meter Length	Nos	2
11	FOC TJ Box (Ballon Type)	Nos	10
12	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	8
13	Wall / Pole Mount Outdoor Camera Bracket for Bullet	Nos	29
14	RJ-45 Connector	Nos	70
15	Outdoor UTP CAT-6 Cable	Meter	1220
16	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	600
17	Fiber Optic Cable - 24 Core SM 9/125, Non-metallic Armoured Outdoor.	Meter	1500
18	20 MM ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	1500

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19	Overhead and Surface Cable Laying Charge	Meter	1820
20	Splicing Charge for OFC Cable	Lot	1
21	7 Meter Height M.S. / G.I Pole with Base Plate & Top Cover including RCC foundation with Installation & Enamel Colour Paint.	Nos	3
22	Supply, Installation, Testing, Commissioning & Project Management Cost During 1 Year Warranty Period.	Lot	1
23	Comprehensive Maintenance Contract after 1 Year Warranty period.	Years	5

Total Bill of Quantity – Part- A + B + C + B

TOTAL BILL OF QUANTITY			
SL. NO.	DESCRIPTION	UNIT	QTY.
1	Bullet Camera - 4K CMOS Sensor IP IR Bullet Camera, 2.7 mm–12 mm motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10.	Nos	138
2	4 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, Auto tracking, IR distance up to 250m, IP67, IK10.	Nos	5
3	2 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, WDR (120dB), Auto tracking, IR distance up to 250m, IP67, IK10.	Nos	2
4	Pole Mount PTZ Camera Fixing Bracket	Nos	7
5	Video Surveillance Joystick control for PTZ network Cameras Operation	Nos	2
6	4 Megapixel CMOS Sensor AI Enforcement Camera, H.265 and H.264 dual codec, Built-in 10 mm–40 mm motorized vari-focal lens, IP67 rated,	Nos	36
7	IR Illuminator, 24 nos IR light LED lamp, 850nm, AC 90-280VAC.	Nos	47
8	Three-Axis Rotation Bracket for Speed Camera Housing	Nos	36
9	General Surveillance Management Server & Storage system with ANPR integration	Nos	5
10	General Surveillance Management Server & Storage system with ANPR integration	Nos	3
11	Central Video Monitoring Software	Nos	3
12	Video Monitoring Camera Connection License	Nos	145
13	ANPR Camera Connection License	Nos	36
14	8 TB Sata Enterprise HDD	Nos	88
15	Single Lane Gantry for ANPR Camera	Nos	8
16	Two Lane Gantry for ANPR Camera	Nos	10
17	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	67
18	Power Supply for Industrial PoE Switch	Nos	67
19	Outdoor Weatherproof Customized Rack for Switch & other accessories.	Nos	70
20	49" UHD 4K Display, Operation Hours 24	Nos	9
21	Client Workstation - 10th Generation Intel Core i7 8 Core processor, 32 GB DDR4 RAM, Dedicated Non-Shared 4 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed.	Nos	13
22	Wireless Key Board and Mouse with USB Extension Cord	Nos	13
23	4K 10 Meter Length DP Cable with Mini DP Convertor	Nos	13

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24	42U, 800mm Width x 1000mm Depth, Floor Standing Rack	Nos	3
25	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters	Nos	4
26	12U, 800mm Width x 800mm Depth, Wall Mount Rack	Nos	3
27	6' Wall Mount Arm	Nos	1
28	Cabinet / Rack for Workstation staging	Nos	1
29	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	2
30	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	3
31	Smart Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4 x 10G SFP+ Slots	Nos	3
32	License for Core Switch (Standard Image to Enhanced Image license)	Nos	5
33	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	142
34	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support)	Nos	10
35	Single Mode SC Pigtail - 1Mtr	Nos	120
36	LC - LC SM FO Patch Cord 5 Meter Length	Nos	88
37	SC - LC SM FO Patch Cord 2 Meter Length	Nos	74
38	FOC TJ Box (Ballon Type)	Nos	98
39	10 KVA / 10KW (1/1) True On-Line Double Conversion IGBT Based Online UPS	Nos	2
40	120 Mins Backup 12 V, 100 ah AH 20 No's of SMF Battery with battery Rack with interconnecting cable	Nos	40
41	1 KVA Offline UPS	Nos	6
42	600 VA Offline UPS	Nos	18
43	32 Amp Power Socket with MCB	Nos	7
44	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	65
45	Power Distribution Unit (5 Pin 5 Amp Socket X 5 Nos)	Nos	62
46	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos.	Nos	6
47	Wall / Pole Mount Outdoor Camera Bracket for Bullet	Nos	138
48	RJ-45 Connector	Nos	440
49	UTP CAT-6 Patch Cord 2 Meters	Nos	25
50	UTP CAT-6 Patch Cord 5 Meters	Nos	14
51	Outdoor UTP CAT-6 Cable	Meter	5795
52	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	8800
53	4 sq MM FRLS Multi stand Power Cable (3 Different Color x 90 Meter Each)	Meter	1620
54	1.0 sq MM FRLS Multi stand Cable (2 Different Color x 90 Meter Each)	Nos	180
55	Fiber Optic Cable - 24 Core SM 9/125, Non-metallic Armoured Outdoor.	Meter	16500
56	20 MM ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	12700
57	Overhead and Surface Cable Laying Charge	Meter	30675
58	Underground Cable laying Charge	Meter	450

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59	Splicing Charge for OFC Cable	Lot	1
60	7 Meter Height M.S. / G.I Pole with Base Plate & Top Cover including RCC foundation with Installation & Enamel Colour Paint.	Nos	12
61	Underground Cable laying through Manual Digging work only for junction Point within particular location.	Meter	450
62	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
63	40 MM HDPE Pipe with all Accessories	Meter	450
64	Design, Planning & Execution Charge for OFC Network	Lot	1
65	Micro Controller Based 2 Zone Conventional Fire Alarm system	Nos	2
66	Smoke Detector with Base	Nos	6
67	Heat Detector with Base	Nos	3
68	12v 7.5 Ah Sealed Maintenance Free Battery	Nos	4
69	24V Sounder for Fire Alarm	Nos	2
70	Manual Call Point	Nos	2
71	ABC Type Fire Extinguisher Wall Mount (5 kg)	Nos	4
72	1 Ton Split AC 5 Star Copper	Nos	4
73	24 X 7 Automatic Changeover switch for Control Room	Nos	2
74	Supply, Installation, Testing, Commissioning & Project Management Cost During 1 Year Warranty Period.	Lot	1
75	Comprehensive Maintenance Contract after 1 Year Warranty period.	Years	5

SUPPLY OF EQUIPMENT

The following are the key requirements under the scope of the contract:

- 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/SKU 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, VMS, Network (Active/Passive), Servers, Work Stations, UPS, Display and Storage items.
- The OEM/SI may be penalized/blacklisted, in case the supply or installation, delivery of support services are 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.

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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 2 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. Details of existing setup, manpower and location, must be provided with documentary proof, for the purpose of technical evaluation of bid.

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 6 years (1 year Warranty+5 years CAMC). During the 6 years, the following SLAs must be adhered to:
- Calls must be attended within the same day of reporting.
- Call resolution within 12 hours of logging of complaint.
- Penalty amount - per day (working day) for each day after the expiry of the 12-hr. window for complaint resolution shall be applicable as per the SLA specified in the tender document.
- The maximum penalty shall not exceed 5% 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 Equipment's should satisfy the Eligibility Criteria mentioned below:

- 1) All CCTV Equipment's (Surveillance Camera, PTZ Camera, ANPR Camera Storage & ANPR Systems) 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 mandatory)
- 3) In case the CCTV OEM is not participating directly, bidder should be an authorized reseller 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 the 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 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

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bidding. The OEM should not have any common directors who are also on the board of blacklisted 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 (Network) Equipment's should satisfy the Eligibility Criteria mentioned below:

- 1) All Passive components including Fiber Cable, LIU, Patch cords, and CAT 6 Cable components must be from same OEM.
- 2) Passive OEM offered must be registered in India for more than at-least 10 years. Incorporation certificate to be submitted.
- 3) Passive OEM should be a member of Telecommunications Industry Association (TIA) committee. Membership shall be available for verification at www.tiaonline.org/about/member-list.
- 4) Passive OEM shall have RCDD certified technical manpower in India, along with local registered office and technical support manpower in West Bengal. Declaration need to give in OEM Letter head.
- 5) OEM shall have ISO 9001 and ISO 14001 certified manufacturing facility in India operational for minimum last 5 years.
- 6) OEM Should be ISO9001 and ISO14001 certified for design, Development for LAN & WAN product.

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

- 1) All Core switches, PoE Switch & SPF module should be from same OEM.
- 2) Active components OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.
- 3) Active components OEM Brand and company together presence in India should be at least for last 20 years.
- 4) 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)
- 5) 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.

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

- 1) ISO 9001, ISO 14001, OSHAS 18001, TL9000, Factory calibration lab of manufacturer shall be NABL accredited in India.

E) General Criteria:

- 1) All Type of Surveillance Camera, ANPR Camera, Surveillance Management Server, Joystick controller and NVR should be from a single OEM (Original Equipment Manufacturer) for seamless integration with Existing system and VMS (Documentary proof / OEM letter head declaration need to be submitted along with the bid).
- 2) OEM Authorization Certificate (MAF) is mandatory for All type of Cameras, Surveillance Management Server, Joystick controller & NVR, Network Active & Passive components, all type of UPS, Display and Client PC. NIT Number should be clearly mentioned on MAF (Manufacturer Authorization Form).
- 3) Existing Infrastructure will be used for Camera installation purpose.
- 4) Provision for System Should be seamless integration with Existing CCTV Surveillance System Installed at Harish Chatterjee Street, Harish Mukherjee Road, Kalighat Road and Surrounding Area.

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.
5. The bidder should have valid GST Registration Certificate & PAN. 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.3.00 (Three) Cr. 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.

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OR

The bidder shall have orders of “Similar Nature” of two order each an amount not less than Rs.1.50 (One Core Fifty Lakh) Cr. 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 each an amount not less than Rs. 1.00 (One) Cr. 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 must have a single order for Supply, Installation, Testing and Commissioning CCTV project, worth all-inclusive cumulative amount of Rs. 1.00 (One) Cr. only, in any year during last five financial years (considering FY – 2017-18, 2018-19, 2019-20, 2020-21 & 2021-22) for any Govt. Departments or Public Sector Undertakings, in India.
8. The bidder should have a minimum **average annual turnover** of not less than Rs. **5.00 Crore** in the last 3 financial year (2018-19, 2019-20 & 2020-21). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
9. Bidder should have Positive net worth for last 03 (Three) financial years (From FY 2020-21, 2019-20, 2018-19).
10. The bidder must submit the Manufacturers Authentication Form (MAF) for All type of Cameras, Surveillance Management Server, ANPR Camera, Joystick controller & NVR, Network Active & Passive components, all type of UPS, Display and Client PC 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.
11. 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.
12. 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.
13. 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.

“KP” means Kolkata Police

“SB” means Special Branch

“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.

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“Similar Nature of Work” means Supply, Installation, Testing and Commissioning of any IT/ ITeS/ ICT /CCTV Surveillance / ANPR / Speed Detection project for any Govt. Departments or Public Sector Undertakings.

“Project” “ Supply, Installation, Testing, Commissioning (SITC) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street,

“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. 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.

2. 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.

3. MODIFICATION AND WITHDRAWAL OF BIDS

The bidder cannot modify or withdraw its bid after submission.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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 six months more than the warranty period. SITC has to be done within six 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.

9. TIME SCHEDULE FOR DELIVERY & INSTALLATION

Maximum 04 (Four) months for SITC to Go-Live

10. LOCATION FOR DELIVERY & INSTALLATION

Delivery location and installation sites will be given with PO.

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11. LIQUIDATED DAMAGE / PENALTY

Hardware: LD clause:

- 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 5% of the total year wise SLA value.

Vendor Termination Clause: -

- i. Termination possibility of MSI 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% on Material Delivery
- b. 35% on Successfully Go-Live of the complete system.
- c. 5% After one year warranty

For CAMC part : Payment will be given yearly in advance of each five years equally.

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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 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 labour 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

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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.

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 these equipment during the course of the execution of the work.

22. SUB-CONTRACT/CONSORTIUM

The purchaser (WTL) does not recognize the existence of Sub-Contractors. The Contractor's responsibility is not transferable. No consortium partner is allowed.

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.

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- 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.

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 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 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 + 5 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.

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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 **10 % 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 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 180 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.

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- 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 at 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

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.

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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.

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 KP, 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 KP. from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence.

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The bidder will pay all indemnities arising from such incidents and will not hold WTL and KP. 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/ KP.
- 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)

SL	SLA Parameter	Turnaround Time for Support	Target Uptime/year
1	Availability of Cameras and all other hardware network items	12 Hrs.	99.9%
3	Availability VMS	12 Hrs.	99.9%
4	Availability of Miscellaneous items	12 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. 500/- 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

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Quarter/6-month period is higher than 5% 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.
- 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) 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 & Technical Specification, 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 6 years, 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 KP 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 KP, 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/KP/CCTV/22-23/015)

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/KP/CCTV/22-23/015)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2018-19	2019-20	2020-21
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/KP/CCTV/22-23/015)

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	
4	E-mail	
	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 – 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-PERFORMANCE 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 filed 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 favour 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 Nationalised 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) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street”

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/KP/CCTV/22-23/015 dated 26.07.2022, 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 180 (one hundred eighty) 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).

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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.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, this.....day of.....2022

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SECTION - I

MAKE, MODEL & PART NUMBER

(Tender No. WTL/KP/CCTV/22-23/015)

SL. NO.	DESCRIPTION	Make / Brand	Model / Part no.
1	Bullet Camera - 4K CMOS Sensor IP IR Bullet Camera, 2.7 mm–12 mm motorized lens, WDR (120 dB), IR LEDs Length 60 m, Support Micro SD memory, IP67, IK10. (As per Section M)		
2	4 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, Auto tracking, IR distance up to 250m, IP67, IK10. (As per Section M)		
3	2 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, WDR (120dB), Auto tracking, IR distance up to 250m, IP67, IK10. (As per Section M)		
4	Pole Mount PTZ Camera Fixing Bracket		
5	Video Surveillance Joystick control for PTZ network Cameras Operation. (As per Section M)		
6	4 Megapixel CMOS Sensor AI Enforcement Camera, H.265 and H.264 dual codec, Built-in 10 mm–40 mm motorized vari-focal lens, IP67 rated. (As per Section M)		
7	IR Illuminator, 24 nos IR light LED lamp, 850nm, AC 90-280VAC. (As per Section M)		
8	Three-Axis Rotation Bracket for Speed Camera Housing		
9	General Surveillance Management Server & Storage system with ANPR integration. (As per Section M)		
10	General Surveillance Management Server & Storage system with ANPR integration. (As per Section M)		
11	Central Video Monitoring Software. (As per Section M)		
12	Video Monitoring Camera Connection License		
13	ANPR Camera Connection License		
14	8 TB Sata Enterprise HDD. (As per Section M)		
15	Single Lane Gantry for ANPR Camera		
16	Two Lane Gantry for ANPR Camera		

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17	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)		
18	Power Supply for Industrial PoE Switch		
19	Outdoor Weatherproof Customized Rack for Switch & other accessories. (As per Section M)		
20	49" UHD 4K Display, Operation Hours 24 (As per Section M)		
21	Client Workstation - 10th Generation Intel Core i7 8 Core processor, 32 GB DDR4 RAM, Dedicated Non-Shared 4 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed. (As per Section M)		
22	Wireless Key Board and Mouse with USB Extension Cord		
23	4K 10 Meter Length DP Cable with Mini DP Convertor		
24	42U, 800mm Width x 1000mm Depth, Floor Standing Rack. (As per Section M)		
25	24 Port Rack Mount LIU Fully Loaded with Single Mode SC Adapters. (As per Section M)		
26	12U, 800mm Width x 800mm Depth, Wall Mount Rack		
27	6' Wall Mount Arm		
28	Cabinet / Rack for Workstation staging		
29	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)		
30	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)		
31	Smart Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4 x 10G SFP+ Slots. (As per Section M)		
32	License for Core Switch (Standard Image to Enhanced Image license)		
33	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support) (As per Section M)		
34	10 Gbps Single Mode Fiber Optic Transceiver (For Core Switch) (up to 10km, support) (As per Section M)		

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35	Single Mode SC Pigtail - 1Mtr (As per Section M)		
36	LC - LC SM FO Patch Cord 5 Meter Length (As per Section M)		
37	SC - LC SM FO Patch Cord 2 Meter Length (As per Section M)		
38	FOC TJ Box (Ballon Type)		
39	10 KVA / 10KW (1/1) True On Line Double Conversion IGBT Based Online UPS. (As per Section M)		
40	120 Mins Backup 12 V, 100 ah AH 20 No's of SMF Battery with battery Rack with interconnecting cable		
41	1 KVA Offline UPS. (As per Section M)		
42	600 VA Offline UPS. (As per Section M)		
43	32 Amp Power Socket with MCB		
44	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box		
45	Power Distribution Unit (5 Pin 5 Amp Socket X 5 Nos)		
46	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 6 Nos. (As per Section M)		
47	Wall / Pole Mount Outdoor Camera Bracket for Bullet		
48	RJ-45 Connector		
49	UTP CAT-6 Patch Cord 2 Meters (As per Section M)		
50	UTP CAT-6 Patch Cord 5 Meters (As per Section M)		
51	Outdoor UTP CAT-6 Cable. (As per Section M)		
52	3 Core 1.5 sq MM Non Armoured Power Cable		
53	4 sq MM FRLS Multi stand Power Cable (3 Different Color x 90 Meter Each)		
54	1.0 sq MM FRLS Multi stand Cable (2 Different Color x 90 Meter Each)		
55	Fiber Optic Cable - 24 Core SM 9/125, Non-metallic Armoured Outdoor. (As per Section M)		
56	20 MM ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring		
57	7 Meter Height M.S. / G.I Pole with Base Plate & Top Cover including RCC foundation with Installation & Enamel Colour Paint.		

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58	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.		
59	40 MM HDPE Pipe with all Accessories		
60	Design, Planning & Execution Charge for OFC Network		
61	Micro Controller Based 2 Zone Conventional Fire Alarm system		
62	Smoke Detector with Base		
63	Heat Detector with Base		
64	12v 7.5 Ah Sealed Maintenance Free Battery		
65	24V Sounder for Fire Alarm		
66	Manual Call Point		
67	ABC Type Fire Extinguisher Wall Mount (5 kg)		
68	1 Ton Split AC 5 Star Copper		
69	24 X 7 Automatic Changeover switch for Control Room		

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/KP/CCTV/22-23/015)

Technical Specifications

4K CMOS Sensor IP IR Bullet Camera				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Sensor	The Camera should be equipped with a minimum of 1/1.8" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.		
2	Resolution	Minimum 3840 × 2160 for high definition video quality		
3	Frame Rate	The Camera should capture images at a frame rate of 25/30 fps @ 8MP (3840 × 2160) so as to give a swift video output even in case of fast-moving objects.		
4	Video Compression	H.265+, H.265, H.264+, H.264, H.264H, H.264B, MJPEG (only supported by sub stream)		
5	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s		
6	ROM/RAM	4GB / 2GB or Higher		
7	Lens	The Camera should be provided with an OEM fitted 2.7 mm-12 mm Motorized Lens or better		
8	Image Stabilization	Electronic Image Stabilization (EIS)		
9	Defog	Camera must have defog feature		
10	Privacy Masking	Camera should support Minimum 4 areas.		
11	Minimum Illumination	0.003 Lux@F1.2 (color) / 0 Lux (BW) with IR On		
12	Minimum Illuminator Number	4 (IR LED)		
13	ICR	The Camera shall incorporate a physical ICR filter for quality images both during day and night		
14	IR Distance	The Camera should have inbuilt IR and cover distance Minimum 60 Mtr.		
15	Video Streaming	Main Stream: 3840 × 2160 (1-25/30 fps), Sub stream: 704 × 576 (1-25fps); 704 × 480 (1-30fps), Third stream: 1920 × 1080 (1-25/30 fps)		
16	ROI Support	The Camera should Support at least 4 area.		
17	Backlight Compensation	BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source		
18	Wide-Dynamic-Range	The Camera should give a WDR (120db) range or Better		

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19	Network	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; Multicast		
20	S/N Ratio	>56dB		
21	Micro SD Slot	Should support Micro-SD Minimum of 256GB		
22	People Counting	Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions		
23	Face Recognition	Face detection, track, priority, snapshot; Upload Optimized snapshot picture; Face enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), Mouth mask, beard; Face matting setting: face, single inch photo; Three snapshot methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal.		
24	IVS	Abandoned object, moving object		
25	Others	Exposure Control, AGC, White Balance		
26	Video Content Analytics supported by Camera	Motion detection		
		Tripwire		
		Intrusion with Recognition of human and vehicle		
		Loitering detection		
		People gathering		
		Parking detection		
		Face detection		
		People counting		
27	Network Ethernet	RJ-45 (10/100 Base-T)		
28	Audio In/ out	1/1 so as to equip the camera with 2-way audio		
29	Audio Compression	G.711A; G.711Mu; G.726; G.723		
30	Alarm In/ out	It should have 3ch In and 2 ch Out		
31	Power Source	The Camera Should support Power over Ethernet (PoE+) IEEE 802.3at, 24V AC and 12V DC		
32	Smart Phone	It should support remote monitoring over iPhone, iPad, Android and Windows desktop/PC		
33	Operation Temperature / Humidity	0 °C to 60 °C / Less than 95% RH		
34	Weather Proof Standard	IP67 rated weather proofing standards		
35	Vandal Proof	Vandal Resistance IK10		
36	Open Protocol	ONVIF Profile S or higher		
37	Certifications	CE, FCC, UL, BIS		
38	Make / Brand	Any globally reputed Manufacturer presence in India.		

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4 Megapixel 45x CMOS Sensor IR PTZ Network Camera

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/2.8" CMOS or Better		
2	Effective Pixels	2560(H) x 1440(V) or Better		
3	Starlight	It should have starlight feature from day 1 to capture color details in low light		
4	Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)		
5	Focal Length	The Camera should be provided with an OEM fitted 3.95~177.75mm of focal length or Better		
6	White Balance	Auto, ATW, Indoor, Outdoor, Manual		
7	Focus Control	Auto / Manual		
8	Electronic Shutter	1/1s~1/30,000s or Better		
9	AGC control	Auto / Manual		
10	Back Light Compensation	BLC, HLC, WDR(120dB)		
11	Optical Zoom	45x or Higher		
12	Max Aperture	f1.6~f4.95		
13	Pan Travel	0°~360° endless, Pan Speed: 0.1° ~ 260°/sec		
14	Tilt Travel	-20° ~ 90° auto flip 180°, Tilt Speed: 0.1° ~120°/sec		
15	Manual Speed	Pan: 0.1° ~260° /s; Tilt: 0.1° ~120° /s		
16	Presets	300 or More		
17	Preset Speed	Pan: 300° /s; Tilt: 200° /s		
18	Special Features	Defog, IR Range upto 250m, Up to 300 Presets, 5 Pattern, 8 Tour, Auto Pan, Auto Scan		
19	Privacy Masking	Minimum 24 areas		
20	Power up Action	Auto restore to previous PTZ and lens status after power failure		
21	Speed Setup	Human-oriented focal Length/ speed adaptation		
22	Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
23	Day/Night: IR Cut Filter	Auto (ICR) / Color / B/W		
24	Video Compression	H.265+/H.265/H.264+/H.264		
25	Video Streaming	Main stream: 4M/3M (1 ~ 25/30fps) , Sub stream1: D1/CIF(1 ~ 25/30fps) , Sub stream2: 1080P (1 ~ 25/30fps)		
26	Streaming Method	Unicast / Multicast		
27	Audio Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2		
28	Motion Detection	Should Support		
29	ROI	Should Support		
30	Audio Streaming	1/1 channel In/Out		
31	Auto Tracking	Should Support		
32	IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Restling leaves, bright lights etc.		
33	Networking	RJ-45		

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34	Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, 1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP		
35	Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		
36	Alarm	4/2 channel in/Out or better		
37	Operating Temperature	0°C ~ 70°C / Less than 95% RH		
38	Weather Proof Standard	IP67 & IK10 Vandal proof rating or better		
39	Power Source	AC24V, PoE+ Both Support		
40	Certifications	CE, FCC, UL, BIS		
41	Make / Brand	Any globally reputed Manufacturer presence in India.		

2 Megapixel 45x CMOS Sensor IR PTZ Network Camera

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/2.8" CMOS or Better		
2	Effective Pixels	1920(H) x 1080(V) or Better		
3	Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)		
4	Focal Length	The Camera should be provided with an OEM fitted 3.95~177.7mm of focal length or Better		
5	White Balance	Auto, ATW, Indoor, Outdoor, Manual		
6	Focus Control	Auto / Manual		
7	Electronic Shutter	1/1s~1/30,000s or Better		
8	AGC control	Auto / Manual		
9	Back Light Compensation	BLC, HLC , WDR(120dB)		
10	Optical Zoom	45x or Higher		
11	Digital Zoom	16x or Higher		
12	Pan Travel	0°~360° endless, Pan Speed: 0.1° ~ 200°/sec		
13	Tilt Travel	-20° ~ 90° auto flip 180°, Tilt Speed: 0.1° ~120°/sec		
14	Manual Speed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		
15	Pre-sets	300 or More		
16	Pre-set Speed	Pan: 300° /s; Tilt: 200° /s		
17	Special Features	Defog, IR Range upto 250m, Up to 300 Presets, 5 Pattern, 8 Tour, Auto Pan, Auto Scan		
18	Privacy Masking	Minimum 24 areas		
19	Power up Action	Auto restore to previous PTZ and lens status after power failure		
20	Speed Setup	Human-oriented focal Length/ speed adaptation		
21	Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
22	Day/Night: IR Cut Filter	Auto (ICR) / Color / B/W		
23	Video Compression	H.265+/H.265/H.264+/H.264		

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24	Video Streaming	Main stream: 1080p/1.3M/720p (1 ~ 25/30fps) , Sub stream1: D1/CIF(1 ~ 25/30fps) , Sub stream2: 1080p/1.3M/720p/D1/CIF (1 ~ 25/30fps)		
25	Streaming Method	Unicast / Multicast		
26	Audio Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2		
27	Motion Detection	Should Support		
28	ROI	Should Support		
29	Audio Streaming	1/1 channel In/Out		
30	Auto Tracking	Should Support		
31	IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Restling leaves, bright lights etc.		
32	Video Interface	1 port (BNC, 1.0V[p-p], 75Ω)		
33	Networking	RJ-45, RS485		
34	Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP,1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour,802.1x		
35	Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		
36	Alarm	4/2 channel in/Out or better		
37	Operating Temperature	0°C ~ 70°C / Less than 95% RH		
38	Weather Proof Standard	IP67 & IK10 Vandal proof rating or better		
39	Power Source	AC24V, PoE+ Both Support		
40	Certifications	CE, FCC, UL & BIS		
41	Make / Brand	Any globally reputed Manufacturer presence in India.		

4 Megapixel CMOS Sensor AI Enforcement Camera

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Main Processor	High performance embedded processor to extract and analyse vehicle metadata		
2	Starlight Technology	It should support starlight function with high sensitivity to give better image/video quality from day one to give		
3	Image Sensor	1/1.8" CMOS or Better		
4	Lens	Built-in 10 mm–40 mm motorized vari-focal lens or Better		
5	Shutter Mode	Single shutter		
6	Electronic Shutter Speed	1/25 s–1/100000 s (manual/auto) or Better		
7	Exposure Mode	Full auto, customized auto, customized		
8	Iris Control	Fixed iris/manual iris/auto iris/P iris		
9	Image Resolution	2688 × 1520 or Higher		
10	Video Resolution	4M (2688 × 1520)/1080P (1920 × 1080)/UXGA (1600 × 1200)/720P (1280 × 720)/D1 (704 × 576)/CIF (352 × 288)		

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11	Video Frame Rate	Maximum 25fps; main stream (2688 × 1520@25fps), sub stream (1600 × 1200@25fps)		
12	Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG		
13	Picture Encoding Format	JPEG or better		
14	WDR	Minimum 90dB or better		
15	White Balance	Auto/outdoor/manual/local white balance/natural light/street light		
16	Noise Reduction	2DNR/3DNR		
17	HLC	Should Support		
18	Bad Pixel Correction	Should Support		
19	Edge Enhancement	Should Support		
20	Storage	Support SD card (Minimum 256GB)		
21	Image Tampering Prevention	Should Support Watermark and verification are available for videos and pictures		
22	Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control		
23	License Plate Recognition	Adopts self-developed algorithm to recognize license plates combining numbers and letters		
24	Vehicle Type Recognition	Should Support		
25	Vehicle Color Recognition	Should Support		
26	Motor Vehicle Violation Capture	Should Support		
27	Traffic Flow Detection	Should Support Statistics of vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, road status, and more; statistics can be exported in Excel		
28	Traffic Event Detection	Should Support Parking violations of motor vehicles, wrong-way driving, and traffic ongestion		
29	Video Metadata	Should Support Motor vehicle: License plate, vehicle type, vehicle color, license plate color, vehicle logo, and more. Non-motor vehicle: Type (two-wheelers, three-wheelers), color, wearing a helmet or not, passenger (1, 2, 3, or more passengers)		
30	Face Detection	Face cut out of driver and front-seat passenger of motor vehicles, and non-motor vehicle driver		
31	Vehicle recognition rate	≥95%		
32	Network	1 RJ-45 Ethernet port, 10/100/1000M Network transmission		
33	Alarm Input & Output	3 channels In & 2 channels Out		
34	Audio Input & Output	1 channel In & 1 channels Out		
35	Illuminator Number	4 illuminators (850nm IR LED illuminators, brightness adjustable)		
36	Power Supply	12V DC, 36V DC, PoE		
37	Operating Temperature	0°C to +65°C		
38	Protection Grade	IP67 or Better		
39	Certification	CE, FCC, UL, BIS		
40	Make / Brand	Any globally reputed Manufacturer presence in India.		

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Surveillance Management Server

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Processor	Intel i5, 64 bits 4 Core Processor or Higher		
2	Operating System	Embedded Linux / Windows		
3	Memory	Minimum 8GB		
4	Motherboard	Should Support 7×24 operation		
5	Hard disk hot swap	Should Support Hot swap and online replacement		
6	Hard disk compatibility	SAS / SATA disk		
7	Camera Support	It should support minimum 1000 Camera		
8	ANPR Device	Support Minimum 64		
9	Bandwidth of Video Input per Server	Minimum 700 Mbps		
10	Bandwidth of Video Output per Server	Minimum 700 Mbps		
11	Hard Disk	Support 15HDD disks (3.5") for Video or Picture storage (8TB per HDD)		
12	RAID	Support Single, Raid 0/1/5/6/10		
13	Ethernet	4 RJ-45 Ports (100/1000Mbps)		
14	HDMI	3 HDMI		
15	Working Temp	0°C~40°C		
16	Certifications	It should have BIS certification		
17	Make / Brand	Any globally reputed Manufacturer presence in India.		

Video Management Software

		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		

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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		
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 pre-set	
	c. Set preset		
26	VMS Should support E-map and should displays max 200-channel on one screen		

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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)		
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.		

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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.		
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	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	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	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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Network Keyboard

Technical Specification		Compliance (Yes/No)	If any deviation (Yes/No)
1	Keyboard Key Panel Electromechanical		
2	Joystick 3-axis, vector-solving, with twisting, return to-centre head		
3	Keyboard Connector RJ-45, RS232, RS485, RS422 (reserved), USB		
4	Keyboard Communication Direct Mode, Network Mode		
5	Direct Mode Interface: 1 RS232/2 RS485 DVR Protocol: DH-2 Dome Protocol: DH-SD1/PELCO-D/PELCO-P, etc		
6	Network Mode Interface: RJ45, DVR/Network Dome: IP Address/Port/Protocol		
7	Resolution LCD, 75.2mm x 33.85mm		
8	Power Supply Power adapter, input 100V~240V 50Hz / 60Hz, output DC12V/1000mA		
9	Power Consumption 5W		
10	Working Temp -10~+55°C		
11	Working Humidity 10%~90%		
12	Atmosphere Pressure 86kpa~106kpa		

IR Illuminator

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Main Processor	Atmel AVR MCU or Better		
2	LED Lamp Beads	24 cree, IR light LED lamp, 850nm		
3	Angle of illumination	15°		
4	User Interface	RS485		
5	Parameter Setting	Web / Client		
6	Cascading	Support 4 devices cascading		
7	Video / Strobe flash Synchronization	Should Support		
8	Snapshot / Strobe flash Synchronization	Should Support		
9	Remote Control	Should Support		
10	Pattern of Strobe flash	Active / Passive Mode		
11	Brightness of Strobe flash	Adjustable		
12	Frequency of Strobe flash	50/60/75/90/100/120Hz		
13	Lighting Distance	Minimum 18~23 meters		
14	Power	AC90~284V		
15	Working Temperature	-30°C~+70°C (-40°F~+158°F)		
16	Working Humidity	10%~95%		
17	Certifications	CE & FCC		
18	Make / Brand	Any globally reputed Manufacturer presence in India.		

Client Workstation PC

WEBEL TECHNOLOGY LIMITED

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Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Form factor	Tower or Rack Mount		
2	Operating System	Windows 10 or Latest OS for Workstations 64 Bit Installed		
3	Processor & Chipset	10th Generation Intel i7 processor 2.4 GHz Turbo Boost Technology		
4	Drive Bays	One 5.25"; Two 3.5"; Two M.2 NVME 2280 SSD		
5	RAM	32 GB (2x16GB) DDR4 2666 DIMM Memory or better		
6	Graphics Card	NVIDIA Quadro P400 (4 GB GDDR5 dedicated)		
7	DVD RW	Slim DVD-Writer		
8	Mouse	Wireless Optical Mouse		
9	Keyboard	Wireless Keyboard		
10	Network	Onboard Gigabit (10/100/1000 Mbps) Ethernet Controller		
11	Make / Brand	Any globally reputed Manufacturer presence in India.		

8TB Enterprise HDD

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)	
1	HDD Storage Capacity	Minimum 8TB Capacity		
2	Form Factor	3.5-inch		
3	HDD Type	Enterprise		
4	Interface	SATA 6 Gb/s		
5	Data Transfer Rate (max Sustained)	245 MB/s or Better		
6	Performance (RPM)	7200		
7	MTBF (hours, projected)	2,000,000 hr or Higher		
8	Power efficiency index (W/TB, idle)	< 1 W / TB		
9	Cache	256 MB		
10	Operating Temperature	5° C to 60° C		
11	Shock (Read/Write) Operating (half-sine wave, 2ms)	70/40Gs or Better		
12	Make / Brand	Any globally reputed Manufacturer presence in India.		

8 Port L2 PoE Switch

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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 20Gbps		
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	The switch should be DIN-Rail mountable.		
14	Operating temperature: -20°C to 65°C		
15	Enclosure should be IP30 rated & metal housing		
16	All type of switches & transceivers should be from same make.		
17	All Core switches should be from same make.		
18	OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.		
19	OEM Brand and company together presence in India should be at least for last 20 years.		
20	OEM should have own service centre/replacement centre in the state of installation. (Documentary proof/OEM letter head declaration, along with address & GST Number need to be submit)		

All SFP Core Switch

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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.		
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		

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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 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:		

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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	f) All Core switches should be from same make.		
52	OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.		
53	OEM Brand and company together presence in India should be at least for last 20 years.		
54	OEM should have own service centre/replacement centre in the state of installation. (Documentary proof/OEM letter head declaration, along with address & GST Number need to be submitted along with the bid)		

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		
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 builtin 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		

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	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.		
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:		

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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		
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	f) All Core switch should be from same make.		
52	OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.		
53	OEM Brand and company together presence in india should be at least for last 20 years.		
54	OEM should have own service centre/replacement centre in the state of installation. (Documentary proof/OEM letter head declation, along with address & GST Number need to be submitted along with the bid)		

Smart Managed Switch

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Smart Managed Switch having 24x 1G SFP slots with & 4x 10G SFP+ slots.		

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2	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation			
3	The switch should be 19" Rack Mount size.			
4	THE SWITCH SHOULD HAVE FOLLOWING BASIC FEATURE:			
5	Number of Ports	24 x 10/100/1000Mbps, 4 x 10G SFP+		
6	Full/Half Duplex	Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed		
7	Media Interface Exchange	Auto or configurable MDI/MDIX		
8	Switching Capacity	Minimum 128Gbps		
9	Transmission Method	Store-and-forward		
10	MAC Address Table	Up to 16,384 entries per device		
11	MAC Address Update	Up to 512 static MAC entries, Enable/disable auto-learning of MAC addresses		
12	Packet Buffer Memory	1.5 MB per device		
13	MTBF	516,593 hours		
14	AC Input	100 to 240 VAC 50/60 Hz internal universal power supply		
15	Smart Fan Quantity	1 x smart fan		
16	Acoustics	42.7 dB(A)		
17	Heat Dissipation	76.043 BTU/hr		
18	Operation Temperature	0 to 50 °C		
19	Certifications	CE, FCC, C-Tick, VCCI, BSMI, CCC, IPv6		
20	Safety	cUL, CB		
21	f) All Core switches should be from same make.			
22	OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.			
23	OEM Brand and company together presence in India should be at least for last 20 years.			
24	OEM should have own service centre/replacement centre in the state of installation. (Documentary proof/OEM letter head declarations, along with address & GST Number need to be submit)			
25	Brand / Make	Any globally reputed Manufacturer presence in India.		

1 KVA Offline UPS

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Power Rating (In KVA / KW)	1000VA / 600W or Better		
	Input			

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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 4		
	Battery			
9	Battery Type & Number	12V/7 Ah x 2		
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	OEM	OEM should have Min.300Cr. Turn over for last 3 years		
18	UPS Brand / Make	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			
9	Battery Type & Number	12V/7 Ah x 1		
10	Recharge Time	4 ~ 6 hours to 90%		
11	Cold Start	Should Support		
	Indicator	LED		
	Environment			

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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	OEM	OEM should have Min.300Cr. Turn over for last 3 years		
18	UPS 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		
21	Relative Humidity	5 ~ 95% (non-condensing)		
	Battery Backup / Battery Bank & Charger			

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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	Manufacturer	QMS: As per ISO 9001: 2008 EMS: As per ISO 14001: 2004 OHSAS: As per ISO 18001: 2007		
28	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		
29	OEM	OEM should have Min.300Cr. Turn over for last 3 years		
30	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		
31	Battery Brand / Make	Any globally reputed Manufacturer presence in India.		

24 Core Outdoor Fiber Optic Cable

Sl. No	Feature	Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Cable Type	24 fibre Single Mode, non-metallic armoured, Multi-tube, Gel filled cable complying to ANSI/TIA 568-C.3, Telcordia GR-20 & ISO/ IEC 11801 suitable for use in aerial, outdoor ducts and backbone cabling.		
2	Fibre Type	Single Mode, 9/125/250-micron primary coated buffers, OS2 (ITU T G652.d)		
3	Armour	All di-electric non-metallic armouring suitable for outdoor / aerial installations.		
4	Cable Construction Type	Multi-tube cable with colour coded loose tubes containing fibres, central (di-electric) FRP rod strength member		
5	Construction Fibres / tube	24F: 4 fibres in 6 tubes		
6	Fibre / Tube identification	All fibres and tubes must be colour coded as per TIA 598-C standard – Blue, Orange, Green, Brown, Slate & White		
7	Attenuation	@ 1310nm <=0.34 dB/Km Max		

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		@ 1550nm <=0.22 dB/Km Max.		
		@ 1380-1386nm <= 0.31db/Km Max.		
8	Loose tube material	PBTP Loose tubes filled with water blocking Thyrotrophic gel.		
9	Loose OD	2.3 mm nominal		
10	Jacket material	HDPE outer jacket with min 1.5mm thickness		
11	Strength members	Central dielectric FRP rod strength member around which the loose tubes should be arranged symmetrically		
		Water blocking Glass yarn strength members at the periphery of the multiple loose tube arrangement		
12	Core Wrapping	The loose tubes should be wrapped first by glass yarns and then by water sellable polyester tape		
13	Rip cords	Shall have 2 rip cords beneath outer jacket.		
14	Tensile Strength	4000 N or better		
15	Crush Resistant	3000 N or better		
16	Cable Diameter	No more than 12.00 + /- 0.5 mm		
17	Cable weight	<= 120 Kg/Km		
18	Operating Temperature	-20 Degree C to +70 Degree C		
19	Cable Colour	Red		
20	Cable Printing Details	<Manufacturer Name><Certification Standards><Core no.><Cable type><Year><Meter Marking><Kolkata Police>		
21	Eligibility Criteria			
22	The offered OEM must be registered in India for more than at-least 10 years. Incorporation certificate to be submitted			
23	OEM should be a member of Telecommunications Industry Association (TIA) committee. Membership shall be available for verification at www.tiaonline.org/about/member-list			
24	OEM shall have 1 RCDD certified technical manpower in India, along with local registered office and technical support manpower in West Bengal. Declaration need to give in OEM Letter head.			
25	OEM shall have ISO 9001:2015 and 14001 certified manufacturing facility in India operational for minimum last 5 years.			
26	All components including fiber cable, LIU, Patch cords, and CAT6 components must be from same OEM			
27	OEM Should be ISO9001 and ISO14001 certified for design, Development for LAN & WAN product.			

UTP CAT-6 Outdoor Cable

Sl. No	Parameter	Specifications	Compliance (Yes/No)	If any deviation (Yes/No)
1	Type	CAT6 U/UTP 4 pair Outdoor Cable, solid bare copper with cross filler pair separator exceeding ANSI/TIA 568.2-D and ISO/IEC 11801 Class E standard		
2	Conductor	23 AWG, 4 Pair UTP, Outdoor double jacketed		

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3	Application	Shall meet the requirement of IEEE 802.3bt (Type 4) for 4PPoE transmissions.		
4	Jacketing	Inner Jacket - Polyethylene (PE)		
		Outer jacket - LSZH		
5	Max Pull Force	Upto 14 Kg		
6	Frequency	Tested upto 250 MHz		
7	Outer Diameter	7.0 – 7.4 mm		
8	Packaging	305 Mtr Reel		
9	Conductor Resistance	<=9.38 Ohms / 100 Mtr		
10	Delay Skew	<45 ns		
11	Temperature Range	-20 to +70 Deg C or Better		
12	Performance @250Mhz for 100m channel	Min NEXT – 38.3dB Max Insertion Loss – 32.8dB Min Return Loss – 17.3dB Min PSNEXT – 36.3dB Min ACR – 5.5dB		
13	Criteria	Offered product OEM shall be member of global TIA committee. Membership shall be available for verification at www.tiaonline.org/about/member-list		
14	Qualification	OEM Should be ISO9001 and ISO14001 certified for design, Development for LAN & WAN product		

24 Port LIU

Sl. No	Parameter	Specifications	Compliance (Yes/No)	If any deviation (Yes/No)
1	Fiber Management shelf	The fiber management shelf shall be fully loaded and factory fitted assembly with no assembling required during installation at site.		
2	High Density: 1U: 24 Fiber terminations			
3	Should be supplied factory installed with SC adapters, splice trays and SC SM Pigtails			
4	Min 4 cable entry points			
5	Mounting brackets can be placed in different positions			
6	Drawer style shelf	Sliding shelf should provide easy access to splicing trays		
		Easy access to back side of connector		
7	Accessories	Fiber management guides, radius controls & secure tie downs provided		
8		Shall be supplied with all splicing accessories, as part of standard installation kit.		
		Sealed cable inlets for dust and rodent protection		
9	Material	Min CRCA Sheet with powder coating		
10	Buffer fiber / tube storage	Min 270mm depth to provide storage of fiber slack		
11	Compliance	ROHS / ELV Compliant		

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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		
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	OEM Brand and company together presence in India should be at least for last 20 years.		
14	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.		
15	OEM should have a registered office in India and should directly present for last 25 years in India.		

LC-SC Patch Cord

Sl. No	Parameter	Specifications	Compliance (Yes/No)	If any deviation (Yes/No)
1	Make and Type	LC/UPC to SC/UPC Duplex tuned Fiber Optic Patch Cord, 9/125 Micron		
2	Standard	ITU-T G.652.D and ITU-T G.657.A1 Bend Insensitive Single mode OS2 Fiber		
3	Cable Sheath	LSZH		
4	Cable Diameter	1.8 mm duplex cord		
5	Flame Test Listing	NEC OFNR-LS (ETL)		
6	Flame test compliance	IEC 60332-3, IEC 61034-2 and IEC 60754-2		
7	UL Listings	Shall be UL 1666 and UL 1685 compliant		
8	Insertion Loss	MAX 0.25 dB		
9	Return Loss	> 50 dB		
10	Temperature Range	-10 Degree C to +60 Degree C		
11	Compliance	ROHS and EN50575 Compliant		

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LC-LC Patch Cord

Sl. No	Parameter	Specifications	Compliance (Yes/No)	If any deviation (Yes/No)
1	Make and Type	LC/UPC to LC/UPC Duplex tuned Fiber Optic Patch Cord, 9/125 Micron		
2	Standard	ITU-T G.652.D and ITU-T G.657.A1 Bend Insensitive Single mode OS2 Fiber		
3	Cable Sheath	LSZH		
4	Cable Diameter	1.8 mm duplex cord		
5	Flame Test Listing	NEC OFNR-LS (ETL)		
6	Flame test compliance	IEC 60332-3, IEC 61034-2 and IEC 60754-2		
7	UL Listings	Shall be UL 1666 and UL 1685 compliant.		
8	Insertion Loss	MAX 0.25 dB		
9	Return Loss	> 50 dB		
10	Temperature Range	-10 Degree C to +60 Degree C		
11	Compliance	ROHS and EN50575 Compliant		

CAT6 UTP Patch Cords (2 & 5 Mtrs.)

Sl. No	Parameter	Specifications	Compliance (Yes/No)	If any deviation (Yes/No)
1	Type	CAT6 UTP RJ45 Patch Cord complying to ANSI/TIA 568.2-D, ISO/IEC 11801 and IEEE 802.3bt (Type 4)		
2	Conductor	24 AWG 7 / 32, stranded copper conductors 100 Ohm		
3	Length	Shall be available in multiple length and jacket color.		
4	Plug Protection	Factory fitted strain relief boots on either side		
5	Jacket	LSZH as per IEC 60332-1		
6	Wiring	Shall be available in universal B-wiring		
7	Performance	In Compliance with IEC 60603-7		
8	Compliance	ROHS compliance		
9	Approval	Intertek certified for zero-bit error rate transmission of 1000BASE-T protocol as per IEEE 802.3, under 4 connector channel configurations. UL 1863 compliant		

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		

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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	It should be of same make as Core Switches		
9	OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.		
10	OEM Brand and company together presence in India should be at least for last 20 years.		
11	OEM should have own service centre/replacement centre in the state of installation. (Documentary proof/OEM letter head declaration, along with address & GST Number need to be submitted along with the bid)		

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	It should be of same make as Core Switches		
8	OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.		
9	OEM Brand and company together presence in India should be at least for last 20 years.		
10	OEM should have own service centre/replacement centre in the state of installation. (Documentary proof/OEM letter head declaration, along with address & GST Number need to be submitted along with the bid)		

Pole

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Material	GI / MS		
2	Height	7 Meter Minimum with Top Cover		
3	Foundation	Concrete Foundation		

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4	Paint	Enamel Colour		
5	Brand/Make	Customize as per requirement.		

Outdoor Weatherproof Customized Rack

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Metal Guage	18 SWG or Better		
2	Colour	Off White / Gray / Cream		
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	1,100:1 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	IP Rating	IP5x		
14	Operation Temperature	0 °C to 40 °C or Better		
15	Operation Humidity	10 % to 80 %		
16	Power Supply	100-240V~, 50/60Hz		
17	Operating Hours	24 Hrs		
18	Safety	IEC / EN / UL		
19	EMC	FCC Class "A" / CE / KC		
20	Energy Star	Energy star 7.0 .		
21	Make / Brand	Any globally reputed Manufacturer presence in India.		

Double Door DB Box

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

General Surveillance Management Server & Storage system

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Processor	Industrial embedded micro-processor 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/D1/CIF/QCI		
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	Smart H.265+/H.265/Smart H.264+/H.264/MPEG4/MJPEG		
12	Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP,720P etc.		
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		
15	Interoperability	ONVIF (profile T/S/G), CGI, SDK		
16	Record Mode	Manual, Schedule (Regular, MD (Motion Detection),		

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17	Trigger Events	Motion detection, privacy masking, video loss, local alarm, PIR alarm, IPC alarm, Camera offline, storage error, full storage, IP conflict 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, pre-set, email.		
18	Alarm input	16 Channel		
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 RJ-45 Ports (10/100/1000Mbps)		
23	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server		
24	Internal HDD	8 SATA III ports, Support up to 10 TB for a single HDD.		
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.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

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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/KP-CM/CCTV/22-23/015 dated 26.07.2022

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 _____ 2022

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

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SECTION - O

DOCUMENTS TO BE SUBMITTED

(Tender No. WTL/KP/CCTV/22-23/015)

Sl. No.	Criteria	Document Submitted	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

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 Document 1 (scanned & join in pdf format the upload)

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

Technical Document 2 (scanned & join in pdf format the upload)

1. Copy of N I T duly stamped & signed
2. Declaration of Eligibility Criteria, Section - C

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TECHNICAL COMPLIANCE (SCANNED & JOIN IN PDF FORMAT THE UPLOAD)

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

Financial Cover:

BOQ (Bill of Quantity) 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 Certificate,• Trade License• PAN• ISO (If Available)
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none">• Bidder's Details / Company Details
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none">• Technical Capability of the Bidder as per format (Section – F)
C	CREDENTIAL	CREDENTIAL 1	<ul style="list-style-type: none">• Bidder's Credentials
		CREDENTIAL 2	<ul style="list-style-type: none">• Necessary Documents
D	DECLARATION	DECLARATION 1	<ul style="list-style-type: none">• Other Declaration
		DECLARATION 2	<ul style="list-style-type: none">• Bidder's Details as per format
		DECLARATION 3	<ul style="list-style-type: none">• Non Black Listed Declaration
		DECLARATION 4	<ul style="list-style-type: none">• Bid Form as per Section – K• NIT Declaration as per Section – R
		DECLARATION 5	<ul style="list-style-type: none">• Required Documents
E	FINANCIAL INFO	P/L & BALANCE SHEET 2018-2019	P/L & BALANCE SHEET 2018-2019
		P/L & BALANCE SHEET 2019-2020	P/L & BALANCE SHEET 2019-2020
		P/L & BALANCE SHEET 2020-2021	P/L & BALANCE SHEET 2020-2021

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SECTION - Q

NIT DECLARATION FOR BIDDER

(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) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street"

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/KP/CCTV/22-23/015 dated 26.07.2022., Supply, Installation, Testing, Commissioning (SITC) with One Year Products & Installation Warranty and 5 Years Comprehensive Maintenance Contract (after one year warranty) of IP Based CCTV Surveillance and also with ANPR system Under Director of Security, West Bengal and DCP (South), Kolkata Police, with the Integration of existing System installed at Harish Mukherjee Road, Harish Chatterjee Street, Kalighat Road & its surrounding areas, some area of Camac Street, Kalighat Road, Harish Mukherjee Road & Harish Chatterjee Street 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 of2022

