

WEBEL TECHNOLOGY LIMITED

NOTICE INVITING e-TENDER

Online Tender documents are invited for implementation of Supply, Installation, Testing, Commissioning (SITC) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal". 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 setups.

1.	Tender No. & Date	WTL/HHA/CCTV/21-22/021 dated 11.10.2021
2.	Tender Version	1.0
3.	Brief description of material	Supply, Installation, Testing, Commissioning (SITC) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal
4.	Tender Fee	Rs.10000.00 (Rupees Ten thousand only). The amount to be transferred online through e-tender portal.
5.	Earnest Money Deposit	Rs. 50,00,000.00 (Rupees Fifty lakhs only). The amount to be transferred online through e-tender portal.
6.	Date of Downloading	11.10.2021
7.	Pre-Bid Meeting date & time	18.10.2021 at 14.00 Hrs. (On-Line Meeting) <ul style="list-style-type: none">• Pre-Bid meeting will be organizing online platform only.• Only queries as per format (Section - L) reaching WTL by 16.10.2021 at 15.00 Hrs. will be taken for decision.• Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.• Only queries as per format (Section - N) reaching WTL by 16.10.2021 at 15.00 Hrs. will be taken for decision.• Queries will be sent to Manager (Purchase) (purchase@wtl.co.in)
9.	Bid Submission Start date & time	27.10.2021 at 14.00.hrs.
10.	Last date & time of EMD & Tender Fee submission intimation.	Before Uploading of Tender
11.	Last date & time of Bid Submission	01.11.2021 at 13.00.hrs.
12.	Date & time of Technical Bid opening	03.11.2021 at 13.00.hrs.
13.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
14.	Contact person	033-23673403-06

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1. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly 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-filling. 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-filling.
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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SECTION – A **PROJECT BACKGROUND**

1 BACKGROUND&OBJECTIVE OF THE PROJECT

The State Level Oversight Committee (SLOC) has decided that funds under the Modernization of Police Force (MPF) Scheme earmarked for procurement of DMR sets would be utilized for installation of CCTV Cameras (Audio & Night Vision Cameras with 12 months local storage) in Police Stations in the current financial year in pursuance of the plan submitted by the State Government before Hon'ble Supreme Court on 19.01.2021 in SLP(Crl) No.3543 of 2020 in the matter of Paramvir Singh Saini-Vs-Baljit Singh & Ors.,for the year 2021.

The Order dated 02.12.2020 of Hon'ble Supreme Court of India in SLP (Criminal) No. 3543/2020 in (Pramvir Singh Saini V/s Baljit Singh & Others). The Hon'ble SC directed to all states and union territory governments should ensure that CCTV cameras are installed in each and every police Stations functioning in the respective State and/or union territory. Further, in order to ensure that no part of a Police Station is left uncovered, it is imperative to ensure that CCTV cameras are installed at all entry and exit points; main gate of police station; all lock-ups; all corridors; lobby; the reception area; all verandas/ outhouses, inspector's room, sub-inspector's room, areas outside the lock-ups room; station hall, in front of the police station compound; outside wash room/ toilets, duty officers room; back part of the police station and any other important areas identified during site inspection and implementation of the project.

As per the plan provided to WTL, the following Police Station/Outpost units and special units of the West Bengal Police and Kolkata Police shall be covered in the current financial year of 2021/22:

- i) 120 Police Stations to be covered under West Bengal Police
- ii) 24 Police Stations under Kolkata Police
- iii) 120 IC/OP/TOP/ROP under West Bengal Police (WBP) and
- iv) 20 Special Units under WBP

1.1 About WTL

Webel Technology Ltd, a Govt. of West Bengal Undertaking under the Department of PAR is designated as the state nodal agency for delivery of e-Governance Solutions for the Government of West Bengal. WTL is a certified agency for ISO 9001:2015, ISO/IEC 27001:2013 and CMMI Level 5 certified for delivery of eGovernance services and infrastructure projects. The Governor of West Bengal has authorized WTL both as The State Nodal Agency(SNA) & State Implementing Agency(SIA) for all e-Governance related activities in the State.

WTL was incorporated in April 2001 and has been profitable since inception. Since the last five years, WTL has undertaken the most challenging projects envisaged by the Government and is one of the fastest growing Government Undertakings. WTL has on behalf of the State Government in all its major e-Governance initiatives such as:

- WBSWAN - MPLS-VPN connectivity up to Block levels,
- Integrated Financial Management System,
- e-Recruitment initiatives ,
- e-Reservation for various State Transport Corporations,
- e-Registration of Land Deeds,
- e-Governance initiatives of the Directorate of Commercial Taxes (e-Registration, e-Amendment, e-Payment, e-Return, e-Refund, e-Appeal, e-Forms, e-STDS & DMS),
- Digitization of all legacy Land records and Modernization of Record Rooms up to Block level and
- implementation of Incident Response System along with setting up of State-of-the-art Emergency Operation Centre for the Department of Disaster Management etc.

WTL has also partnered the Excise Directorate, Treasuries and Pay & Accounts, Home, Labour, Sericulture, Agriculture, Forest, Food & Supplies, Consumer Affairs in their IT & ITES initiatives. In addition to partnering State Government Departments, WTL has been following a "LOOK OUTWARD" policy and is doing a number of National Projects and Projects in various State Governments. Some of the National Projects executed successfully by WTL

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are NPR, SECC and PEC. Some of the States in which WTL is executing projects are Odisha, Jharkhand, Tripura, Meghalaya, Arunachal Pradesh and Delhi.

1.2 About West Bengal Police

The headquarters of the West Bengal Police is located at “Bhawani Bhavan” Alipore, Kolkata and “Nabanna” Mandirtala, Howrah. West Bengal Police has been spread over 28 districts including 4 Govt. Railway Police Unit. This apart, there are 6 (Six) Police Commissionerates under West Bengal Police. There are 8 Ranges and 3 Zones for the purpose of supervision of Police service throughout the state. The region is headed by an officer of the rank of Addl. Director General / Inspector General of Police; the range by an officer of the rank of Inspector General / Dy. Inspector General of Police. The Commissionerates are headed by an officer of the rank of Inspector General / Dy. Inspector General of Police. The structure of West Bengal Police are as follows:

- **Districts:** There are 28 districts including Rly. Police districts in the State of West Bengal
- **Commissionerate:** There are 6 (six) Commissionerate under West Bengal Police namely Bidhannagar Police Commissionerate, Barrackpore Police Commissionerate, Howrah Police Commissionerate, Siliguri Police Commissionerate, Asansol-Durgapur Police Commissionerate and Chandannagar Police Commissionerate.
- **Criminal Investigation Department :** CID unit of West Bengal Police functions with its headquarters at Bhawani Bhavan, Alipore, Kolkata.
- **Traffic Police:** The Headquarters of Traffic Police is located at Bhawani Bhavan, Alipore, Kolkata.
- **Intelligence Branch (IB):** Intelligence Branch of West Bengal Police has its office at 13 Lord Sinha Road, Kolkata- 700071
- **West Bengal Armed Police :** The West Bengal Police is comprised of 12 (Twelve) State Armed Police (SAP) Battalions, 03 (three) Battalions of Eastern Frontier Rifles, 01 (One) Battalion for Special Striking Force, 03 (three) Rapid Action Force Battalions, 02 (two) India Reserve Battalions, 01(one) Specialized India Reserve Battalion &. 02 (two) Specially Trained Armed Battalions (STRA).
- **Enforcement Branch (EB):** Enforcement Branch, West Bengal is having the headquarter at 1st Floor, Bhabani Bhawan, Alipore, Kolkata. There are 6 Commissionerate Enforcement Branches (CEB) under Commissionerates, and 38 District Enforcement Branch (DEBs) in each police district
- **Police Control Room :** The West Bengal Police has its nerve centre at the Police Control Room located at the Police Directorate, Nabanna, Howrah. Also a sub-control room functioning at Bhabani Bhavan Alipur.
- **Vigilance**
- **Telecom**
- **State Crime Records Bureau**
- **Training**

The various police units, including special units under the above divisions of the West Bengal Police are as shown in the table below:

:

SL	Site Type	No. of Sites
1	Police Stations	551
2	IC/TOP/OP/ROP/	491
3	CID HQ	1
4	SDPO	22
5	Special Units	
A	STF	1
B	Detective Department (DD) Office	22
C	District Enforcement Branch (DEB)	38
D	Enforcement Branch (HQ)	1
E	Detective Department Office (Commissionerate)	6
F	Directorate of Economic Offence (DEO)	1
G	Anti-Corruption Branch	1

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1.3 About Kolkata Police

Kolkata Police has 9 divisions covering 80 police stations. It has a strength of 35,000 and a territorial jurisdiction of 243 Sq. km. The Commissioner is the chief of the Kolkata Police. The commissioner is appointed by the Government of West Bengal and reports independently to the Home Minister of the State. The headquarters are at 18, Lalbazar Street, near B.B.D. Bagh area in Central Kolkata. The following are a list of the divisions of the Kolkata Police and the branches.

Divisions

1. South Division
2. North and North Suburban Division
3. Central Division
4. Eastern Suburban Division
5. Port Division
6. South East Division
7. South Suburban Division (Jadavpur Division)
8. South West Division (Behala Division)
9. East Division

Branches

1. Detective Department
2. Special Branch
3. Enforcement Branch
4. Kolkata Traffic Police
5. Reserve Force
6. Wireless Branch
7. Security Control Organization

LIST OF POLICE STATION UNDER KOLKATA POLCE

1. Alipore	17. Chitpur	33. Kolkata Leather Complex	49. Park Street	65. Survey Park
2. Amherst Street	18. Cossipore	34. Karaya	50. Parnashree	66. Tala
3. Amherst Street Women	19. Ekbalpur	35. Karaya Women	51. Patuli	67. Taltala
4. Anandapur	20. Entally	36. Kasba	52. Patuli Women	68. Taltala Women
5. Ballygunge	21. Garden Reach	37. Lake	53. Phoolbagan	69. Tangra
6. Bansdrone	22. Garfa	38. Maidan	54. Posta	70. Taratala
7. Behala	23. Gariahat	39. Maniktala	55. Pragati Maidan	71. Thakurpukur
8. Behala Women	24. Girish Park	40. Metiabruz	56. Purba Jadavpur	72. Tiljala
9. Beliaghata	25. Golf Green	41. Muchipara	57. Rabindra Sarobar	73. Tollygunge
10. Beniapur	26. Hare Street	42. Nadial	58. Rajabagan	74. Tollygunge Women
11. Bhowanipur	27. Haridevpur	43. Narkeldanga	59. Regent Park	75. Topsia
12. Bowbazar	28. Hastings	44. Netaji Nagar	60. Sarsuna	76. Ultadanga
13. Burrabazar	29. Jadavpur	45. New Alipore	61. Shakespeare Sarani	77. Ultadanga Women
14. Burtolla	30. Jorabagan	46. New Market	62. Shyampur	78. Watgunge
15. Charu Market	31. Jorasanko	47. North Port	63. Sinthee	79. Watgunge Women
16. Chetla	32. Kalighat	48. Panchasayar	64. South Port	80. West Port

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SECTION – B

SCOPE OF WORK & BILL OF MATERIAL

2 DETAILED SCOPE OF WORK FOR WEST BENGAL POLICE

The scope of work for Installation of CCTV and 12 Month Audio/Video storage for all Police stations and Police Outposts, including Special Units of the West Bengal Police are covered in this section. The Scope of Work includes the technical details and the estimation of BoQ requirements covering 260 sites, including 120 Police stations, 120 outposts (IC/OP/TOP/ROP) and 20 special units of the West Bengal Police. The implementation is expected to be completed within the current financial year of 2021-22.

In order to ensure that no part of a Police Station is left uncovered, it is imperative to ensure that CCTV cameras are installed at all police stations, at some of the key areas listed below:

- at all entry and exit points of building;
- all lock-ups; areas outside the lock-ups room
- all corridors; lobby; the reception area;
- all verandas/ outhouses,
- inspector's room, sub-inspector's room,
- station hall,
- in front of the police station compound;
- duty officers room;
- back part of the police station and
- Child Friendly corner including any other important areas identified during site inspection and implementation of the project.

The actual location of cameras to be installed shall be determined during detailed site survey during the implementation. The scope of work to be performed by the implementation partner for West Bengal Police sites covered are detailed below with the estimated BOQ.

The scope of work outlined consists of the following:

- 1) Technical Scope of Work
 - a. Active Components – Supply, Installation, Testing & Commissioning and support of Active components.
 - b. Passive Components – Supply, Installation, Testing and maintenance of Passive Components
- 2) Services Scope of Work – Logistics, site readiness, installation, Maintenance Infrastructure management, Project Management services.

The technical scope of work shall be described in this section in details covering all the items to be supplied and the services to be delivered. The Scope of Work includes the Project Management Services and the support services to be delivered under warranty for 1 year, and an additional 2 years for the list of sites to be covered in this scope.

The scope of work of this project for financial year 2021-22 120 Police Stations to be covered under West Bengal Police

- i) 120 Police Stations to be covered under West Bengal Police
- ii) 120 IC/OP/TOP/ROP under West Bengal Police (WBP) and
- iii) 20 Special Units under WBP.

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The detailed Bill of Quantity (BOQ) for the supply and installation of CCTV surveillance system in each of the site categories mentioned above are shown in below table. The following table provides the details of the Scope of Supply and Installation for each type of site under the WBP, in the current financial year.

SL.	ITEM DESCRIPTION	Police Station	IC/TOP/OP/ROP	STF	EB	DEB	DDI	CDD
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.) - (Units)	15	5	7	7	3	3	7
2	4MP IP Bullet Camera (IR Range: 80 mts.)- (Units)	5	3	3	3	1	1	3
3	24-Bay Video Storage (Units)	1	0	0	0	0	0	1
3a	16 Bay, 24 Channel Video Storage (Units)		1	1	1	0	0	0
3b	8 Bay, 12 Channel NVR (Units)	0	0	0	0	1	1	0
4	10TB Enterprise HDD (Units)	22	9	11	11	5	5	11
5	Computer: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10 (Units)	1	1	1	1	1	1	1
6	2KVA UPS (Units)	1	1	1	1	1	1	1
7	32" FHD IPS Display (Units)	1	1	1	1	1	1	1
8	L2 Smart-managed 16-Port PoE Switch (Units)	1	1	1	1	1	1	1
8a	L2 Smart-managed 8-Port PoE Switch (Units)	2	0	0	1	0	0	0
9	Cat6 UTP Cable (Mts)	700	300	360	360	140	140	360
10	6U Wall Mount Indoor Networking Rack (Units)	2	1	1	1	1	1	1
10a	9U Rack with Accessories	1	1	1	1	1	1	1
11	Network Accessories (Patch Panel, Patch Chord, Jack Panel, etc.) – SET	1	1	1	1	1	1	
12	20mm PVC Conduit & accessories (MTS)	700	300	360	360	140	140	360
13	Cable Laying Charges (Mts)	700	300	360	360	140	140	360
14	Supply, Installation, Testing & Commissioning (SITC) of the Surveillance system - (JOB)	1	1	1	1	1	1	1
15	Central Video Monitoring Software - (License)	20	8	10	10	4	4	10
16	Support Addl: 2 years (Job)							

BOQ Summary Table

- PS – Police Station
- IC/TOP/OP/ROP – Investigation Center, Traffic Outpost, Outpost, Railway Outpost
- EB – Enforcement Branch HQ
- DEB – District Enforcement Branch
- DDI – District Detective Office

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- CDD – Commissionerate Detective Department

The project will encompass the number of sites identified for the financial year 2021-22, as per the decision of the SLEC and in line with the budgetary provision available. In order to ensure that no part of a Police Station is left uncovered, it is imperative to ensure that CCTV cameras are installed at all entry and exit points; main gate of police station; all lock-ups; all corridors; lobby; the reception area; all verandas/ outhouses, inspector's room, sub-inspector's room, areas outside the lock-ups room; station hall, in front of the police station compound; outside wash room/ toilets, duty officers room; back part of the police station and any other important areas identified during site inspection and implementation of the project. The site-wise breakup of the total no of cameras to be installed are as detailed below and summarized in below Table :

- Police stations (Total 120 Nos.) --15 Cameras to be installed within each police station to cover each and every area of the premises. 5 Cameras shall be installed outdoors for surveillance of the periphery of the police stations.
- TOP/ROP/OP/IC, (120 Nos.) – 5 Cameras to be installed indoor and 3 cameras to be installed outdoor for surveillance of the periphery.
- 20 Nos. Special Units The table above provides the details of number of cameras to be installed in Special Units, as per the requirement provided by WBP.
- Breakup of sites with the number of Camera required for each type of site is indicated in the table below.

Sl	Site Type	No. of Sites	Indoor Cam	Outdoor Cam
1	Police Stations	120	15	5
2	IC/TOP/OP/ROP/	120	5	3
3	Special Units			
A	STF	1	7	3
B	DDI Office	5	3	1
C	District Enforcement Branch (DEB)	8	3	1
D	Enforcement Branch (HQ)	1	7	3
E	DDI Office (Commisionerate)	5	7	3
	Total no of Sites/Phase	260		

Site-wise Camera requirement

2.1 Active Components & VMS Software

- **Camera:** Minimum Resolution of all cameras will be 4MP with audio recording capacity. The cameras to be supplied shall be
 - ❖ Indoor - 4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)
 - ❖ Outdoor -- 4MP IP Bullet Camera (IR Range: 80 mts.)
- **16 Port PoE Switch** – 2 Nos. 16 port, L2 Smart and Managed POE switch shall be installed in the Police station to connect the 20 cameras to the Network Video Storage (NVR) for video and audio recording. For other sites, one number of 16 port POE switch shall be provisioned, if the number of cameras is less than 16.
- **Central Video Storage/ NVR:** The Storage to be provided for the project are of various types. Each Police station will require a storage with 24 HDD bays. Similarly, other sites including TOP/IOP/ROP/OP and Special Units shall require a storage unit with 16 HDD bays. Sites with 4 cameras requiring less than 8 Tb storage, shall be provided with NVR for video storage, with 5 TB of HDD.
 - ❖ Police Stations - A 24 bay video storage to accommodate audio and video recording from the 20 cameras for 12 months provisioned with 22 nos of 10 TB hard disk drive.

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- ❖ IC/OP/TOP/ROP/STF/EB (HQ)/ CDD – The Video storage provisioned the sites are with 16 bay for audio and video recording.
 - ❖ DDI/DEB - NVR is provided for sites requiring less than 8 TB storage, with provision for 5 Nos. of 10 TB HDD in the NVR.
- **Hard Disk, Enterprise Class (10 TB)** - Police Stations – With 20 Cameras will require 22 Nos of 10 TB HDD for Audio/Video storage for 12 months.
- ✓ IC/TOP/ROP/OP – with 8 Cameras shall require 9 Nos of 10 TB HDD
 - ✓ STF & CDD and Enforcement Branch HQ have 10 Cameras and will require 11 Nos of 10 TB HDD
 - ✓ DDI and DEB have 4 Cameras and will require 5 nos. of 10 TB HDD.
- **Work Station and Video Monitoring Panel** – Each location shall require a single workstation with a 32" FHD IPS Video panel for monitoring of the camera feed. The Station in Charge shall be able to monitor the video feed from each camera and also be able to monitor the functioning of each camera and storage. The minimum specification for the components are:
- Workstation - Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10 Home
 - Smart Panel - 32" Full HD IPS Display
- **2 KVA Online UPS** – For the purpose of providing clean and uninterrupted power supply to all the active components, including storage, work station, POE switch and cameras installed at the police station; a 2 KVA online UPS with standard backup is proposed for each site to be covered under the phase 1 of the project.
- **Video Management Software (VMS)** – The video management and monitoring software shall be licensed as per the number of cameras in each site. The VMS shall be installed on the workstation and shall manage the storage from each camera. The VMS shall also be connected to the monitoring panel for viewing the feed from each camera. The VMS system will also be used by the site in charge to report malfunction or issues in any camera or recording of video footage storage. The VMS software is expected to be provided along with the Camera Solution provided and the cost is included.

The following table summarizes calculation of Active Components required for each type of WBP site included in this project.

Site	Total Camera	Outdoor Camera	Indoor Camera	No. of 10 TB HDD Required	NVR 8 Bays	16 Bay (24 CH) storage	24 Bay (32 CH) Storage	Work Station	32" Display	16 port PoE SW	8 port PoE SW	UPS 2 KVA	VMS License
Police Station	20	5	15	22	0	0	1	1	1	1	2	1	20
IC/TOP/OP/ROP	8	3	5	9	0	1	0	1	1	1	0	1	8
Sprial Units													
STF	10	3	7	11	0	1	0	1	1	1	1	1	10
DDI Office	4	1	3	5	1	0	0	1	1	1	0	1	4
DEB	4	1	3	5	1	0	0	1	1	1	0	0	4
EB(HQ)	10	3	7	11	0	1	0	1	1	1	1	1	10
DDI Office (Commissionerate)	10	3	7	11	0	1	0	1	1	1	1	1	10

2.2 Passive Components – Technical Requirements

The installation of CCTV camera based surveillance system at Police Stations, TOP/ROP/IOP/OP and other Special units of the West Bengal Police, as listed in the Table 1, shall require supply and installation of passive components for smooth implementation an functioning. The following are some of the key passive components included in the scope. The list of items and the quantity required are indicated in the table no. 2 above.

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- **CAT 6 Cables**– The Cat 6 cables are used to connect the Camera to the POE switch, and to connect to the centralized storage for recording of audio and video. The DPR estimates the total length of the cable (CAT 6) required for each site shall be based on the number of cameras.
- **PVC Conduits (20 mm)** – The CAT 6 cable shall be laid through the 20 mm PVC Conduits. The total length of the PVC conduits estimated per site shall be same as the estimated length of CAT 6 cable estimated above.
- **Network Accessories (Patch Panel, Patch Chord, Jack Panel, etc.)** – The network accessories required for installation of the network and connecting the cameras installed to the NVR storage shall be provisioned per site. Patch Panel, Patch Chord and Jack Panel, required for proper passive installation of network shall be provisioned for each site. The estimated requirement for the Network accessories shall be as per the number of cameras installed per site and will be estimated at actuals during implementation.
- **Wall Mounted Rack** – The rack is required for housing of the storage, network equipment, including POE switch. It is estimated that:
 - ❖ 9 U Rack floor or wall mounted rack for Video Storage installation.
 - ❖ 1 No. 6U Rack for each PoE Switch to be installed. The total no. of 6 racks is equal to the number of 16 port/8Port PoE switches estimated per site.
- **Supply, Installation, Testing and Commissioning (SITC)** – SITC costs are estimated at each site on an average per site basis. The SITC cost will include site inspection, site preparation, installation and testing, and commissioning of all active and passive equipment at site. It is estimated that each site will require:
 - ❖ Minimum 100 m of 3C un-armored power cable (1.5 Sq.mm)
 - ❖ Power accessories – Required such as plug points, switches and other accessories.

The following table provides the detailed calculation of passive components required for each site of West Bengal Police.

Site	Total Camera	Outdoor Camera	Indoor Camera	CAT 6 Cable in mtrs	PVC Conduit in mtrs	6 U rack	9 U rack	Structured cable laying in mtrs	Structured cabling Accs. (set)	Site preparation (Electrical/Civil Work)
Police Station	20	5	15	700	700	3	1	700	1	1
IC/TOP/OP/ROP	8	3	5	300	300	1	1	300	1	1
Special Units										
STF	10	3	7	360	360	1	1	360	1	1
DDI Office	4	1	3	140	140	1	1	140	1	1
DEB	4	1	3	140	140	1	1	140	1	1
EB(HQ)	10	3	7	360	360	1	1	360	1	1
DDI Office (Commissionerate)	10	3	7	360	360	1	1	360	1	1

2.3 Services: Functional Requirements

The most critical aspect of the project for “CCTV Surveillance System with 12 months storage facility” at Police Stations & Outposts in the jurisdiction of West Bengal Police, are the proposed services and support from the selected System integration partners. The service to be provided are provisioned in this DPR are as follows:

- 1) **Installation Services** – The installation services of the project at each and every site is a critical component of the project and shall include the following:
 - a. Supply and logistics for all items as per BoQ.
 - b. Site inspection, planning and site preparation support for installation.

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- c. Creation of “Asset identification” for each type of equipment installed at site, with description of the asset. The asset database for the project shall be created to enable proper asset tracking and support.
 - d. Installation of all active components including setting up of cameras, network switch, NVR storage and workstation with the smart display panel.
 - e. Installation of VMS software.
 - f. Completion of the passive implementation, including laying of cables through conduits, setting up of rack, connecting all the active components on network with the cameras installed. Necessary electrical work for the completion of the installation, including connecting of the UPS.
 - g. Setting up of the surveillance operations, by making all the cameras functional and connecting with the storage.
2. **Call Center** - Setting up of support call center for reporting of any camera, network or storage fault. The call center will be functional in Govt. working days (10 am to 6 pm) and will register complaints from site. 5% spare items has to be kept available for support services during 3 years.
3. **Project Management** – SI shall as part of the project implementation plan, setup a dedicated project management unit, with a program manager, with the following responsibilities:
- i) Planning project implementation
 - ii) Overseeing the project implementation and reporting on progress
 - iii) Coordinate with the WTL and WBP to ensure smooth installation and quick resolution of any issues during installation.
 - iv) Setup of the Support services and ensure SLAs are met.
 - v) Monitoring the Support services as per the SLAs and reporting
 - vi) Coordinate with WTL/WBP Project team on a regular basis and provide support as and when necessary through the implementation partner.
4. **Warranty and Comprehensive AMC Support**
- 1 year Warranty.
 - 2 year additional Comprehensive AMC support.

2.4 Project Implementation

The project implementation is the key aspect of the project. It is expected that the entire list of sites provided by WBP shall be implemented in a phased manner within 6 months of the award of the contract for the Project implementation to the Partner. The project implementation process shall be governed by an approved project implementation plan, by the WBP and the WTL PMU. A high level project implementation plan is as shown below. A detailed implementation plan shall be prepared by the WTL PMU which has to be implemented by the selected SI.

High Level Implementation Plan

The CCTV surveillance project for WBP & KP, shall commence on the award of the contract to the implementation partner through a selection process. The overall implementation of the 260 sites of WBP and 24 sites of KP, is estimated to be completed within 4 months from the award of the contract for SI partner, by WTL.

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CCTV Surveillance for WBP	Oct				Nov				Dec				Jan				Feb				Mar			
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24
Project Summary																								
Partner Selection																								
Tender Preparation & Upload																								
Bid Submission																								
Technical Evaluation																								
Contract Finalization																								
Project Implementation																								
Site Survey (PS)																								
Site Survey (Outposts)																								
Site Survey (Special Units)																								
Installation of CCTV (PS)																								
Installation of CCTV (Outposts)																								
Installation of CCTV (Special Units)																								
Setup of Support (Call center)																								
Setup of District Support Network																								

The above project plan is indicative and depicts a projected timeline for completion of the project within 4 months from selection of SI Partner for implementation.

- 1) Site Survey, Site readiness – expected to be completed within 6 to 8 weeks, and will be in parallel to the delivery of the supply of equipment at site.
- 2) Installation and commissioning – This activity should be completed within 4 months, to complete the project installation by March 2022.
- 3) Setting up of the support services network – call center will be completed within March 2022.

Project Implementation Process

The project implementation process to be followed shall include the selected Project Implementation Partner (SI) process for the timely installation of the CCTV Cameras, Storage and other equipment, including passive and active components at site. The SI partner shall also setup the support call center, and the district support centers at the identified locations for delivery of support services as part of the process. The following are the steps of the process to be followed:

- 1) Submission of detailed project plan for each site implementation by SI and approval of the plan by WTL PMU.
- 2) Conducting of Site Survey as per plan
 - a. Submit site survey report with detailed layout diagram for each camera and other equipment at site.
 - b. Submit list of equipment to be delivered and installed at each site.
- 3) Supply and installation at site. (PS/OP/SU)
 - a. Supply the listed items as per BOQ for each site approved.
 - b. Install the equipment (Active/Passive) and other site work as per plan. Label each item with “Unique Identification Code” for tracking.
 - c. Install the Storage and Video management Software and demonstrate the functioning of the site, for each camera and the storage. Update VMS with the camera identification number for easy tracking.
 - d. Submit list of equipment (Active/Passive) installed at each site with “Unique identification” number for tracking of each item.
 - e. Update the installation database for future reference and support requirement.
- 4) Setup Support Center at central location (Kolkata) for reporting of issues/problems from site.
 - a. Provision trained manpower for call centre support
 - b. Provision for infrastructure and Support management software for call tracking, issue tracking, assignment of calls to field, status updation of repair/replacement.

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- c. Reporting of support status on weekly basis as per SLA.

The SI implementation partner shall be required to perform the implementation work as per the agreed implementation plan approved by the PMU. The details of the services to be provided and the SLAs shall be finalized before execution.

2.5 Support Services Required

The support services proposed to be setup by SI is the key for the successful implementation of the project and management of operations over a period of 3 years or more. The current scope of the proposal, encompassed supply and installation of CCTV cameras at site, with one year warranty and CAMC for additional two years.

Call center support operations

A centralized call center with a toll free number shall be setup in Kolkata by the SI Partner, to support the maintenance of the sites located all across West Bengal. The support services management will be managed through the Support Call center and will have required infrastructure and software necessary for service management. The Center will manage the inventory records of all items and spares used in the project and track the status of each item through the support system software.

The Support call center shall be available to receive calls on email/telephone. The call center will have one Manager and call center staff on rotation basis for high availability operation. Call center staff to attend the call and perform the following:

- ✓ Identify site (PS/OP/IC/SU) and register complaint on system
- ✓ Identify faulty asset from asset code reported and update system
- ✓ Assign call to respective field engineer for replacement, if camera is faulty.
- ✓ If other Active component is faulty, assign stock from central location for dispatch to field location.
- ✓ Update and monitor delivery of replacement stock to field engineer.
- ✓ Monitor dispatch of faulty item from field to repair center.
- ✓ Update repair status and replenish stock status on completion of repair.
- ✓ Close call and update SLA compliance data

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 7 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.

Service & Support Infrastructure Setup in West Bengal

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

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2.6 Bill of Materials of WBP (2021-2022)

The bill of material (BOM) of WBP, for implementing the CCTV surveillance system at all the sites, based on the per site BOQ are as shown below:

Sl.	Item	Quantity	Unit
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	2488	No.
2	4MP IP Bullet Camera (IR Range: 80 mts.)	994	No.
3	24-Bay Video Storage	120	No.
3a	16-Bay Video Storage	127	No.
3b	8 Channel NVR with 8 Storage bays	13	No.
4	10TB Enterprise HDD	3862	No.
5	Work Station: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	260	No.
6	2KVA UPS with std. backup	260	No.
7	32" FHD IPS Display	260	No.
8	L2 Smart-managed 16-Port PoE Switch	260	No.
8a	L2 Smart-managed 8-Port PoE Switch	247	No.
9	Cat6 UTP Cable	124340	Mts.
10	6U Wall Mount Indoor Networking Rack	501	No.
10a	9U Rack with accessories	260	No.
11	Network Accessories (Patch Panel, Patch Chord, Jack Panel, etc.)	260	Lot
12	20mm PVC Conduit & accessories	124340	Mts.
13	Cable Laying Charges	124340	Mts.
14	Supply, Installation, Testing & Commissioning (SITC) of the Surveillance system	260	Job
15	Central Video Monitoring Software	3482	License
16	Comprehensive Maintenance of Surveillance Infrastructure for addl. two years	260	Sites

Note:

- 1) Bidders are required to quote the minimum quantity proposed in the BoQ.
- 2) Successful Bidder shall be required to make assessment of actual requirement during installation and make necessary arrangements to meet the actual requirements.

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Location for installation of CCTVs under MPF Scheme 2021-22 (PSs/ICs/ TOPs/ Special Units) of WBP

District/Police District/Commissionerate/ GRPs	CP/SP HQ Office	Police Station	Investigation Centers/Out Posts/TOPs/ROPs
Alipurduar	SP Office	Alipurduar	Kamakyaguri OP under Kumargram PS
		Jaigaon	Barobisha OP under Kumargram PS
		Kumargram	Hasimara OP under Jaigaon PS
Darjeeling	SP Office	Darjeeling	Sonada OP under Jorebunglow PS
		Kurseong	Singmari TOP under Sadar PS
		Naxalbari	Panitanki PP under Khoribari PS
Siliguri G.R.P.	SRP Office	Alipurduar G.R.P.S.	Farakka RPIC
		Dalkhola G.R.P.S.	New coochbehar GRPS
		New Coochbehar G.R.P.S.	Siliguri Town RPIC
Siliguri Police Commissionerate	CP Office	Bagdogra	Khalpara TOP
		Matigara	Panitanki TOP
		Siliguri	
		New Jalpaiguri	Fulbari ICP
Kalimpong	SP Office	Garubathan	Pedong CP
		Jaldhaka	Algarah PP
		Kalimpong	Mongpong ADPC
Jalpaiguri	SP Office	Banarhat	Binnaguri O.P. under Banarhat PS
		Jalpaiguri	Manikganj OP under Kotwali PS
		Malbazar	Kranti OP under Malbazaar
Coochbehar	SP Office	Baxsirhat	Nayarhat ICP under Shebganj PS
		Cooch Behar	Nishiganj OP under Mathabhanga PS
		Dinhata	Chilkirhat ROP under Kotwali PS
		Mekhliganj	Dewanhat ROP under Kotwali PS
		Sithalkuchi	
Raiganj Police District (U/D)	SP Office	Itahar	Bhatol OP under Raiganj PS
		Kaliaganj	Tungidighi PC under Karandighi PS

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		Raiganj	Radhikapur IC under Kaliyaganj PS
Islampur Police District (U/D)	SP Office	Chopra	Panjipara OP under Goalpokher PS
		Dalkhola	Ramganj OP under Islampur PS
		Islampore	Daspara OP under Chopra PS
Dakhsin Dinajpur	SP Office	Balurghat	Chakvrigu OP
		Gangarampur	Balurghat TOP
		Hilli	Baniadpur TOP
		Kumarganj	Rampur ROP
Malda	SP Office	Baishnabnagar	Golapganj IC under Kaliachak PS
		Chanchal	Rathbari TOP under Englishbazar PS
		English Bazar	
		Gajole	
Ranaghat Police District	SP Office	Haringhata	Rosullayapur ROR under Chakdah PS
		Kalyani	Bagula OP under Hanskhali PS
		Ranaghat	Coopers OP under Ranagahta PS
Jangipur Police District	SP Office	Farakka	Gouripur OP under Sagardighi PS
		Raghunathganj	Jangipur TOP under Raghunathganj PS
		Sagardighi	NTPC OP under Farakka PS
Birbhum	SP Office	Illambazar	Suri TOP
		Rampurhat	Bolpur TOP
		Sainthia	Sainthia TOP
		Suri	Rampurhat TOP
Murshidabad Police District	SP Office	Beldanga	Gudhia OP under Murshidabad PS
		Berhampore	Tajpur OP under Hariharpara PS
		Kandi	Azimganj TOP under Jiaganj PS
		Murshidabad	Karnasubarna OP under Berhampur PS
Krishnanagar Police District	SP Office	Chapra	Nazirpur IC under Tehatta PS
		Krishnanagar	Juranpur IC under Kaliganj PS
		Tehatta	Debogram ROP under Kaliganj PS
Chandannagar Police Commissionerate	CP Office	Bhadreswar	Bandel PP
		Chandannagar	Gourhati TOP

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		Chinsurah	Champdani TOP
Purba Burdwan	SP Office	Burdwan	Dainhat OP under Katwa PS
		Kalna	Koichor OP under Mongolkote PS
		Mangalkot	Seharabazar OP under Raina PS
Barasat Police District	SP Office	Barasat	Badu OP under Barasat PS
		Duttapukur	Nilgunj OP under Duttapukur PS
		Madhyamgram	Machlandpur IC under Garbardanga PS
Asansol Durgapur Police Commissionerate	CP Office	Asansole North	Bidhannagar OP under NTS PS
		Durgapur	A Zone TOP under Durgapur PS
		Raniganj	Sripur IC under Jumuria PS
			Barakar PP under Kult PS
Jhargram	SP Office	Belabera	Manikpara Beat House under Jhargram PS
		Binpur	Ramgarh OP under Ialgarh PS
		Jhargram	Banspahri OP under Belpahari PS
Purulia	SP Office	Jhalda	Baglata IC
		Purulia Mufassil	Tulin OP
		Purulia Town	Suisa OP
			Sindri OP
Bankura	SP Office	Bankura	Maliara OP under Barjora PS
		Barjora	Siromonipur OP under Kotulpur PS
		Bishnupur	Radhanagar OP under Bishnupur PS
			Punisole OP under Onda PS
Bongaon Police District	SP Office	Bongaon	Sutia IC under Gaighata PS
		Gaighata	Nahata OP under Gopalnagar PS
			Nongaon TOP under Bongaon PS
			Nataberia OP under Bagdah PS
Hooghly Rural	SP Office	Arambagh	Badanganj Beat House under Goghat PS
		Mogra	Bora Beat Beat House IC under Singur PS
		Tarakeswar	Ghoshpur OP under Khanakul PS
			Guptipara OP under Balagarh PS
Kharagpur G.R.P.	SRP Office	Bankura G.R.P.S.	Bagnan ROP under Uluberia GRPS
		Kharagpur G.R.P.S.	Kolaghat ROP under Panskura GRPS
		Uluberia G.R.P.S.	CK Road RPIC under Bankura GRP

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			Midnapore ROP under Kharagpur GRPS
Paschim Medinipore	SP Office	Debra	I/C Pirakata Police Post under Salboni PS, Dist.-Paschim Medinipur.
		Kharagpore Town	I/C Jorageria Police Post under Belda PS, Paschim Medinipur.
		Midnapore	I/C Khirpai Town Out Post under Ghatal PS, Paschim Medinipur.
Barrackpore Police Commissionerate	CP Office	Baranagar	Kamarhati TOP
		Belghoria	Dum Dum PS TOP
		Khardah	
Bashirhat Police District	SP Office	Bashirhat	Charghat OP under Swarupnagar PS
		Minakhan	Laugachi Beat House under Haroa PS
		Swarupnagar	Rajbari OP under Nazat PS
Bidhannagar Police Commissionerate	CP Office	Bidhannagar North	Airport TG
		Bidhannagar South	Kaikhali TG
		Electronics Complex	NSCBI Airport TG
Baruipur Police District	SP Office	Baruipur	Sankarpur ROP under Baruipur PS
		Canning	Chandaneswar ROP under Bhangore PS
		Sonarpur	
Purba Medinipore	SP Office	Haldia	Kolaghat B/H IC under Kolaghat PS
		Nandigram	Heria IC under Khejuri(Janka) PS
		Tamluk	Chaukhali OP under Chandipur PS
Diamond Harbour Police District	SP Office	Bishnupur	Budge Budge IC (under Budge Budge PS)
		Diamond Harbour	Zinzira Bazar IC (under Mahestala PS)
		Mahestala	
Howrah G.R.P.	SRP Office	Asansole G.R.P.S.	Tarakeswar RPIC under Kamarkundu GRPS
		Bandel G.R.P.S.	Nabadwip RPIC under Kalna GRPS
		Howrah G.R.P.S.	Rampurhat RPIC under Sainthia GRPS
Howrah Police Commissionerate	CP Office	Bally	Tikiapara TOP under Howrah PS
		Howrah	Belur Math TOP under Bally PS
		Shibpur	Manickpore IC under Sankrial PS
Howrah Rural	SP Office	Amta	Chandrapur OP

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		Bagnan	Uluberia TOP
		Uluberia	Garchumuk TROP
Sealdah G.R.P.	SRP Office	Ballygunge G.R.P.S.	Bidhannagar IC under Sealdah GRPS
		Dumdum G.R.P.S.	Kalyani IC Ranaghat GRPS
		Sealdah G.R.P.S.	Canning IC under Sonarpur GRPS
Sundarban Police District	SP Office	Kakdwip	Kalikapur ROP under Mathurapur PS
		Kulpi	Milan More ROP under Dholahat PS
		Mandirbazar	Tekpanja ROP under Mandir Bazar PS

In addition to the 240 sites mentioned in the list of sites for WBP above, the following 20 Special Units are also included.

List of Special Units

1. Uttar Dinajpur DD
2. Darjeeling D.D.
3. Jalpaiguri D.D.
4. Cooch Behar D.D.
5. DD office of Siliguri Police Commissionerate
6. Cooch Behar DEB
7. Kalimpong Police District DEB
8. Raiganj Police District DEB
9. Jalpaiguri DEB
10. DD office of Asansol Durgapur Police Commissionerate
11. Dakshin Dinajpur DEB
12. Bankura DEB
13. Chandannagar Police Commissionerate DEB
14. DD office of Chandannagar Police Commissionerate
15. Barrackpore Police Commissionerate DEB
16. DD office of Barrackpore Police Commissionerate
17. EB, WB
18. STF, WB
19. Howrah DD
20. DD office of Bidhannagar Police Commissionerate

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3 DETAILED SCOPE OF WORK FOR KOLKATA POLICE

This section provide detailed scope of work to implement the installation and implementation of whole project for Kolkata Police. The technical specifications of the CCTV and associated equipment, based on the requirement at each site as per the list provided. The scope also summarizes the overall requirement and scope based on number of sites to be implemented in the current financial year.

The scope of work outlined in the document consists of the following:

- 1) Technical Scope of Work
 - a. Active Components – Supply, installation and support of Active components.
 - b. Passive Components – Supply, installation and maintenance of Passive Components
- 2) Services Scope of Work – Logistics, site readiness, installation, Maintenance Infrastructure management, Project Management services.

The current scope of work for Kolkata Police, as per the Memo no. 13917/MOD dated 24/09/2021 for implementation of CCTV camera and 12 months storage for 24 Police Stations (Thanas) under the jurisdiction of Kolkata police divisions. The list of site along with the requirement for the current financial year is as shown in the table below:

SL	Division	Police Station	Total Camera	Outdoor Camera	Indoor Camera
1	East Suburban	Beliaghata	32	6	26
2	East Suburban	Entally	14	6	8
3	East Suburban	Manicktala	26	4	22
4	East Suburban	Narkeldanga	38	8	30
5	East Suburban	Phoolbagan	16	5	11
6	East Suburban	Tangra	18	5	13
7	East Suburban	Ultadanga	23	5	18
8	East Suburban	Ultadanga Women	10	2	8
9	South Suburban	Bansdroni	24	6	18
10	South Suburban	Garfa	20	2	18
11	South Suburban	Jadavpur	50	7	43
12	South Suburban	Kasba	21	4	17
13	South Suburban	Regent Park	29	7	22
14	South Suburban	Netaji Nagar	23	6	17
15	South Suburban	Patuli	22	5	17
16	South Suburban	Patuli Women	15	3	12
17	South West	Thakurpukur	49	7	42
18	South West	Haridevpur	25	5	20
19	South West	Parnashree	43	7	36
20	South West	Sarsuna	21	4	17
21	South West	Taratala	21	5	16
22	South West	Behala	21	5	16
23	South West	Behala Women	17	4	13
24	South West	Golfgreen	38	8	30

List of sites for Kolkata Police for FY 2021/22.

The above table, indicates the number of cameras to be installed in each police station and also includes an

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assumption for the number of cameras to be installed indoor (inside premises) and outdoor cameras. The breakup has been made in this document to estimate the budgetary requirement for the different types of camera quantity required. The number of cameras for indoor and outdoor breakup, will be finalized in discussion with the Kolkata Police, prior to implementation.

In order to ensure that no part of a Police Station is left uncovered, it is imperative to ensure that CCTV cameras are installed at all police stations, at some of the key areas listed below:

- at all entry and exit points;
- main gate of police station;
- all lock-ups; areas outside the lock-ups room
- all corridors; lobby; the reception area;
- all verandas/ outhouses,
- inspector's room, sub-inspector's room,
- station hall,
- in front of the police station compound;
- outside wash room/ toilets,
- duty officers room;
- back part of the police station and
- Child Friendly corner including any other important areas identified during site inspection and implementation of the project.

The actual location of cameras to be installed shall be determined during detailed site survey during implementation by the implementation partner. The scope of work to be performed by the implementation partner for Kolkata Police sites covered in Phase 1 are detailed below with the estimated BOQ for:

- 1) Active Components
- 2) Passive components
- 3) Services and Support Component.

The following section provides the estimated requirement in details. Bidders must make their own assessment and include any additional requirements, meeting the minimum requirements specified in the BoQ.

3.1 Active Components Required – (KP)

Kolkata police has listed 24 Police stations to be covered under the Phase 1 of the project for the current financial year. The site-wise breakup of the total no of cameras to be installed and other active components required are as detailed below and summarized in Table below.

#	Division	Police Station	Total Camera #	Outdoor Camera #	Indoor Camera #	per day per cam (GB) H.265+ compression	Total for 12 month (Usable TB after RAID 5)	Number of 10TB HDD Required	48 Bay (64 C) Storage	24 Bay (32C) Storage	Work Station PC (C17, 16 GB)	32" FHD IPS Panel	L2 POE Switch (8 Ports)	L2 POE Switch (16 Ports)	UPS (Online 3 KVA)	VMS License
1	East Suburban	Beliaghata	32	6	26	30	348.8	39	1	0	1	2	2	2	1	32
2	East Suburban	Entally	14	6	8	30	152.6	17	0	1	1	1	2	2	1	14
3	East Suburban	Manicktala	26	4	22	30	283.4	32	1	0	1	1	2	2	1	26
4	East Suburban	Narke Idanga	38	8	30	30	414.2	46	1	1	1	1	3	3	1	38
5	East Suburban	Phoolbagan	16	5	11	30	174.4	20	0	1	1	1	2	2	1	16
6	East Suburban	Tangra	18	5	13	30	196.2	22	1	0	1	1	2	2	1	18
7	East Suburban	Ultadanga	23	5	18	30	250.7	28	1	0	1	1	2	2	1	23
8	East Suburban	Ultadanga Women	10	2	8	30	109	12	0	1	1	1	1	1	1	10
9	South Suburban	Bansdroni	24	6	18	30	261.6	29	1	0	1	1	2	2	1	24
10	South Suburban	Garfa	20	2	18	30	218	24	1	0	1	1	2	2	1	20
11	South Suburban	Jadavpur	50	7	43	30	545	60	1	1	1	1	3	3	1	50
12	South Suburban	Kasba	21	4	17	30	228.9	26	1	0	1	1	2	2	1	21
13	South Suburban	Regent Park	29	7	22	30	316.1	35	1	0	1	1	2	2	1	29
14	South Suburban	Netaji Nagar	23	6	17	30	250.7	28	1	0	1	1	2	2	1	23
15	South Suburban	Patuli	22	5	17	30	239.8	27	1	0	1	1	2	2	1	22
16	South Suburban	Patuli Women	15	3	12	30	163.5	18	0	1	1	1	1	1	1	15
17	South West	Thakurpukur	49	7	42	30	534.1	59	1	1	1	1	3	3	1	49
18	South West	Haridevpur	25	5	20	30	272.5	30	1	0	1	1	2	2	1	25
19	South West	Parnashree	43	7	36	30	468.7	52	1	1	1	1	3	3	1	43
20	South West	Sarsuna	21	4	17	30	228.9	26	1	0	1	1	2	2	1	21
21	South West	Taratola	21	5	16	30	228.9	26	1	0	1	1	2	2	1	21
22	South West	Behala	21	5	16	30	228.9	26	1	0	1	1	2	2	1	21
23	South West	Behala Women	17	4	13	30	185.3	21	1	0	1	1	1	1	1	17
24	South West	Golfgreen	38	8	30	30	414.2	46	1	0	1	1	3	3	1	38
Total Active BOQ (Phase I)			616	126	490			749	20	8	24	25	50	50	24	616

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Table : Estimated BOQ of Active Components (Kolkata Police)

The Active components required for the 24 Police stations have been estimated for 2021-2022 based on the requirements provided, sample site survey conducted by WTL and on the basis of assumptions for sizing of the network, storage and hard disk requirements.

- **Camera** - Minimum Resolution of all cameras will be 4MP with audio recording capacity. The cameras to be supplied shall be as per technical specifications in annexure.
 - ❖ Indoor - 4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.), Minimum 2688 × 1520 for high definition video quality, with a minimum of 1/3" CMOS sensor applying progressive scan technology. Detailed specification in Annexure.
 - ❖ Outdoor -- Minimum 4MP **IP Bullet Verifocal Camera** (2688 x1520) for high definition video quality (**IR Range: 50 mts.**) Minimum of 1/2.9" CMOS sensor applying progressive scan technology, OEM fitted 2.7~13.5mm Motorized vari-focal Lens. Detailed Specification in Annexure.
- **L2 Smart Managed PoE Switch** – 8Port and 16 port, L2 Smart and Managed POE switch shall be installed in the Police station to connect the installed cameras to the Network Video Storage (NVR) for video and audio recording.
 - ❖ Number of Switches has been estimated for the total number of cameras installed in site.
 - ❖ 16 port POE switch shall be provisioned, with 8 Port switch in cascade to cover the entire Police station complex, including outdoor cameras.
 - ❖ The provision for additional switch for redundancy has been estimated, with additional free ports.
 - ❖ The number of 16 Port and 8 Port Switch proposed for each site is included in the BoQ for Phase 1. Additional 8 Port Switch may be required for some sites after site inspection during installation.
- **Video Storage/ NVR:** The Storage to be provided for the project are of various types. Each Police station will require a storage with 24/48 HDD bays based on the estimated number of 10 TB HDD required. The Central Video storage proposed shall support direct storage from the cameras and must support the camera installed for direct Video/Audio storage.
 - ❖ 32 Channel/24 Bay Central Video Storage - A 32 Channel 24 bay video storage to accommodate audio and video recording for police stations requiring 20 or less 10 TB HDDs for 12 months.
 - ❖ 64 Channel/48 Bay Central Video Storage – A 48 bay Central Video storage with the required number of HDD is proposed for Police stations with more than 20 nos. of 10 TB HDD, as per the estimate.
 - ❖ For Police stations with more than 40 Cameras or requiring more than 48 nos. HDD, One 48 Bay 64 Channel Storage and One 24 Bay 32 Channel storage shall be installed at the site.
 - ❖ The storage proposed must have adequate number of bays for adding 10% additional HDDs, as required by the Kolkata Police.
- **Hard Disk (10 TB) Enterprise Class – As per estimate in BOQ for each site attached.**
- **Work Station and Video Monitoring Panel** – Each location shall require a single workstation with a 32" FHD IPS Video panel for monitoring of the camera feed. The Station in Charge shall be able to monitor the video feed from each camera and also be able to monitor the functioning of each camera and storage. The minimum specification for the components are:
 - ❖ Workstation - Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10 Home
 - ❖ Smart Panel - 32" Full HD IPS Display
- **Central Video Monitoring Software (VMS)** – The video monitoring software shall be licensed as per the number of cameras in each site. The VMS shall be installed on the workstation and shall manage the storage from each camera. The VMS shall also be connected to the monitoring panel for viewing the feed from each camera. The VMS system will also be used by the site in charge to report malfunction or

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issues in any camera or recording of video footage storage. The VMS software is assumed to be provided along with the Camera Solution provided and the license cost is included. However, OEMs can propose the Video Management Solution separately, maintaining the compatibility with the cameras installed, for the purpose of direct audio/video storage and for audio video footage retrieval.

3.2 Passive Components (KP)

The CCTV Surveillance project of Kolkata Police shall include passive installation in each of the police stations and the following Table provides the BOQ for passive component supply and installation for the project. The amount of passive component required and services are estimated based on the total number of cameras to be installed. The actual requirement at site may vary during installation. However, for the purpose of budgeting and estimating the BOQ, the following table shall be the basis.

SL #	Division	Police Station	Total Camera #	Outdoor Camera #	Indoor Camera #	CAT 6 Cable Req'd. in Meters	# of Box (305 m) CAT 6	PVC Conduit in Meters	6U Wall mounted Racks	9U Rack	Structured Cable laying in meters	Strutured Cabling Accessories (Set)	Site Preparation (Electrical/Civil) Work
1	East Suburban	Beliaghata	32	6	26	1080	4	1080	4	1	1080	40	1
2	East Suburban	Entally	14	6	8	540	2	540	4	1	540	22	1
3	East Suburban	Manicktala	26	4	22	860	3	860	4	1	860	34	1
4	East Suburban	Narkeldanga	38	8	30	1300	5	1300	6	1	1300	46	1
5	East Suburban	Phoolbagan	16	5	11	580	2	580	4	1	580	24	1
6	East Suburban	Tangra	18	5	13	640	3	640	4	1	640	26	1
7	East Suburban	Ultadanga	23	5	18	790	3	790	4	1	790	31	1
8	East Suburban	Ultadanga Women	10	2	8	340	2	340	2	1	340	18	1
9	South Suburban	Bansdroni	24	6	18	840	3	840	4	1	840	32	1
10	South Suburban	Garfa	20	2	18	640	3	640	4	1	640	28	1
11	South Suburban	Jadavpur	50	7	43	1640	6	1640	6	1	1640	58	1
12	South Suburban	Kasba	21	4	17	710	3	710	4	1	710	29	1
13	South Suburban	Regent Park	29	7	22	1010	4	1010	4	1	1010	37	1
14	South Suburban	Netaji Nagar	23	6	17	810	3	810	4	1	810	31	1
15	South Suburban	Patuli	22	5	17	760	3	760	4	1	760	30	1
16	South Suburban	Patuli Women	15	3	12	510	2	510	2	1	510	23	1
17	South West	Thakurpukur	49	7	42	1610	6	1610	6	1	1610	57	1
18	South West	Haridevpur	25	5	20	850	3	850	4	1	850	33	1
19	South West	Parnashree	43	7	36	1430	5	1430	6	1	1430	51	1
20	South West	Sarsuna	21	4	17	710	3	710	4	1	710	29	1
21	South West	Taratola	21	5	16	730	3	730	4	1	730	29	1
22	South West	Behala	21	5	16	730	3	730	4	1	730	29	1
23	South West	Behala Women	17	4	13	590	2	590	2	1	590	25	1
24	South West	Golfgreen	38	8	30	1300	5	1300	6	1	1300	46	1
Total Passive Component BOQ (Phase I)			616	126	490	21000	81	21000	100	24	21000	808	24

Table : Estimated BOQ of passive items (Kolkata Police)

The installation of CCTV camera based surveillance system at Police Stations of Kolkata Police, as listed in the Table above, shall require supply and installation of passive components for smooth implementation an functioning. The following are some of the key passive components included in the scope. The list of items and the quantity required are indicated in the table above.

- **CAT 6 Cables**– The Cat 6 cables are used to connect the Camera to the POE switch, and to connect to the centralized storage for recording of audio and video.
- **PVC Conduits (20 mm)** – The CAT 6 cable shall be laid through the 20 mm PVC Conduits. The total length of the PVC conduits estimated per site is assumed to be same as the estimated length of CAT 6 cable estimated above.
- **Network Accessories (Patch Panel, Patch Chord, Jack Panel, etc.)** – The network accessories required for installation of the network and connecting the cameras installed to the NVR storage shall be provisioned per site. Patch Panel, Patch Chord and Jack Panel, required for proper passive installation of network shall be provisioned for each site. The estimated requirement for the Network accessories shall be as per the number of cameras installed per site and will be estimated at actuals during implementation.

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- ❖ The networking accessories are estimated per site for total number of camera to be installed and the other equipment to be connected.
- ❖ The cost per set is multiplied by number of cameras + 8 additional network points per site.
- **Network/Storage Rack** – The rack is required for housing of the storage, network equipment, including POE switch. It is estimated that:
 - ❖ 9 U Rack floor or wall mounted rack for Video Storage installation.
 - ❖ 1 No. 6U Rack for each PoE Switch to be installed. The total no. of 6 racks is equal to the number of 16 port/8Port PoE switches estimated per site.
- **Online UPS** – For the purpose of providing clean and uninterrupted power supply to all the active components, including storage, work station, POE switch and cameras installed at the police station for minimum 1 hour backup, a 3 KVA online UPS is proposed for each site to be covered under the phase 1 of the project.
- **Site Installation, testing and commissioning (SITC)** – SITC costs are estimated at each site on an average per site basis. The SITC cost will include site inspection, site preparation, installation and testing, and commissioning of all active and passive equipment at site. It is estimated that each site will require:
 - ❖ Minimum 100 m of 3C un-armored power cable (1.5 Sq.mm)
 - ❖ Power accessories – Required such as plug points, switches and other accessories.

The SITC cost per site is assumed to be a lump sum amount, to be quoted by SI partners.

3.3 Services: Functional Requirements

The most critical aspect of the project for “CCTV Surveillance System with 12 months storage facility” at Police Stations of Kolkata Police, are the proposed services and support from selected System integration partners. The service to be provided are as follows:

1. **Installation Services** – The installation services of the project at each and every site is a critical component of the project and shall include the following:
 - i) Supply and logistics for all items as per BoQ.
 - ii) Site inspection, planning and site preparation support for installation.
 - iii) Creation of “Asset identification” for each type of equipment installed at site, with description of the asset. The asset database for the project shall be created to enable proper asset tracking and support.
 - iv) Installation of all active components including setting up of Cameras, network switch, NVR storage and workstation with the smart display panel.
 - v) Installation of VMS software.
 - vi) Completion of the passive implementation, including laying of cables through conduits, setting up of rack, connecting all the active components on network with the cameras installed. Necessary electrical work for the completion of the installation, including connecting of the UPS.
 - vii) Setting up of the surveillance operations, by making all the cameras functional and connecting with the storage.
 - viii) Demonstration and training of the personnel as site for day to day operations.
2. **Call Center** - Setting up of support call center for reporting of any camera, network or storage fault. The call center will be functional in Govt. working days (10 am to 6 pm) and will register complaints from site. 5% spare items has to be kept available for support services during 3 years.

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3. **Project Management** – SI shall as part of the project implementation plan, setup a dedicated project management unit, with a program manager, with the following responsibilities:
 - i) Planning project implementation
 - ii) Overseeing the project implementation and reporting on progress
 - iii) Coordinate with the WTL and KP to ensure smooth installation and quick resolution of any issues during installation.
 - iv) Setup of the Support services and ensure SLAs are met.
 - v) Monitoring the Support services as per the SLAs and reporting
 - vi) Coordinate with WTL/KP Project team on a regular basis and provide support as and when necessary through the implementation partner.
4. **Warranty & Support: The Warranty support and Comprehensive AMC Support for 3 (1+2 Years) shall be as per the warranty clause in this tender document.**
 - 1 year Warranty.
 - 2 year additional Comprehensive AMC support.

3.4 Project Implementation Process

The project implementation is the key aspect of the project. It is expected that the entire list of sites provided by KP shall be implemented in a phased manner within 6 months of the award of the contract for the Project implementation to the Partner. The project implementation process shall be governed by an approved project implementation plan, by the WBP and the WTL PMU. A high level project implementation plan is as shown below. A detailed implementation plan shall be prepared by the WTL PMU which has to be implemented by the selected SI.

High Level Implementation Plan

The CCTV surveillance project for KP, shall commence on the award of the contract to the implementation partner through a selection process. The overall implementation of the 24 Police Stations, in addition to the sites to be implemented for WBP, is estimated to be completed within 4 months from the award of the contract for SI partner, by WTL.

CCTV Surveillance for WBP	Oct				Nov				Dec				Jan				Feb				Mar			
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24
Project Summary																								
Partner Selection																								
Tender Preparation & Upload																								
Bid Submission																								
Technical Evaluation																								
Contract Finalization																								
Project Implementation																								
Site Survey (PS)																								
Site Survey (Outposts)																								
Site Survey (Special Units)																								
Installation of CCTV (PS)																								
Installation of CCTV (Outposts)																								
Installation of CCTV (Special Units)																								
Setup of Support (Call center)																								
Setup of District Support Network																								

The above project plan is indicative and depicts a projected timeline for completion of the project within 4 months from selection of SI Partner for implementation (for WBP & KP combined).

- 1) Site Survey, Site readiness – expected to be completed within 6 to 8 weeks, and will be in parallel to the delivery of the supply of equipment at site.
- 2) Installation and commissioning – This activity should be completed within 4 months, to complete the project installation by March 2022.

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- 3) Setting up of the support services network – call center and required field support setup will be completed within March 2022.

Project Implementation Process

The project implementation process to be followed shall include the selected Project Implementation Partner (SI) process for the timely installation of the CCTV Cameras, Storage and other equipment, including passive and active components at site. The SI partner shall also setup the support call center, and the district support centers at the identified locations for delivery of support services as part of the process. The following are the steps of the process to be followed:

- 1) Submission of detailed project plan for each site implementation by SI and approval of the plan by WTL PMU.
- 2) Conducting of Site Survey as per plan
 - a. Submit site survey report with detailed layout diagram for each camera and other equipment at site.
 - b. Submit list of equipment to be delivered and installed at each site.
- 3) Supply and installation at site.
 - a. Supply the listed items as per BOQ for each site approved.
 - b. Install the equipment (Active/Passive) and other site work as per plan. Label each item with “Unique Identification Code” for tracking.
 - c. Install the Storage and Video management Software and demonstrate the functioning of the site, for each camera and the storage. Update VMS with the camera identification number for easy tracking.
 - d. Submit list of equipment (Active/Passive) installed at each site with “Unique identification” number for tracking of each item.
 - e. Update the installation database for future reference and support requirement.
- 4) Setup Support Center at central location (Kolkata) for reporting of issues/problems from site.
 - a. Provision trained manpower for call centre support
 - b. Provision for infrastructure and Support management software for call tracking, issue tracking, assignment of calls to field, status updation of repair/replacement.

The SI implementation partner shall be required to perform the implementation work as per the agreed implementation plan approved by the PMU. The details of the services to be provided and the SLAs shall be finalized by KP and WTL PMU after selection and award of the contract.

3.5 Support Services Delivery

The support services proposed to be setup by SI is the key for the successful implementation of the project and management of operations over a period of 3 years or more. The current scope of the proposal, encompassed supply and installation of CCTV cameras at site, with one year warranty and CAMC for equipment till three (3) years.

- 1) The installation of CCTV Surveillance system for Police Stations and Police outposts, other special unit offices has been undertaken under directions of the court. The court requires recording of proceedings, including video and voice recording for all the cameras installed, for a period on 12 months.
- 2) As most of the police stations are located in wide geographical area spread across Kolkata, the outage of any camera due to technical reason may cause loss of video and audio footage. The time taken to replace a faulty camera must be minimized to ensure there is minimal loss of recording.
- 3) Any outage of other active equipment, such as Storage, workstation or HDD in storage shall also require quick turnaround for replacement/repair, as there will be loss of audio video recording.

As standard warranty of equipment makes it obligatory for OEM/SI to repair the faulty component, for this project it is important to ensure that there is a maximum turnaround time of 48 hours (2 Working Days) for each camera installed, so that there is minimal loss of video/audio footage recording. SI has to be arrange, an additional support center and a field support network of engineers, so that the turnaround time for replacement of any faulty camera can be minimized. The required scope of work for support services are as detailed below.

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Call center support operations

A centralized call center with a toll free number shall be setup in Kolkata by the SI Partner, to support the maintenance of the sites located all across Kolkata. The support services management will be managed through the Support Call center and will have required infrastructure and software necessary for service management. The Center will manage the inventory records of all items and spares used in the project and track the status of each item through the support system software.

The Support call center shall be available to receive calls on email/telephone. The call center will have one Manager and call center staff on rotation basis for high availability operation. Call center staff to attend the call and perform the following:

- ✓ Identify site and register complaint on system
- ✓ Identify faulty asset from asset code reported and update system
- ✓ Assign call to respective field engineer for replacement, if camera is faulty.
- ✓ If other Active component is faulty, assign stock from central location for dispatch to field location.
- ✓ Update and monitor delivery of replacement stock to field engineer.
- ✓ Monitor dispatch of faulty item from field to repair center.
- ✓ Update repair status and replenish stock status on completion of repair.
- ✓ Close call and update SLA compliance data

Repair Center

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 7 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.

Service Infrastructure Setup in Kolkata

The contractor is required to have services setup, with qualified manpower and adequate spares to ensure delivery of the support services as per the SLA required.

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3.6 Bill of Materials of KP (2021-2022)

The bill of material (BOM) of KP, for implementing the CCTV surveillance system at all the sites, based on the per site BOQ are as shown below:

Sl.	Item	Unit	Quantity
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	No.	490
2	4MP IP Bullet Verifocal Camera (IR Range: 50 mts.)	No.	126
3	48-Bay Video Storage	No.	20
4	24-Bay Video Storage	No.	8
5	10TB Enterprise HDD	No.	749
6	Work Station : Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	No.	24
7	3KVA UPS with 1 hr. backup	No.	24
8	32" FHD IPS Display	No.	25
9	L2 Smart-managed 16-Port PoE Switch	No.	50
9a	L2 Smart Managed 8-Port POE Switch	No.	50
10	Cat6 UTP Cable	Mts.	21000
11	6U Wall Mount Indoor Networking Rack	No.	100
11a	9U Wall mount Indoor Rack + Accessories	No.	24
12	Network Accessories (Patch Panel, Patch Chord, Jack Panel, etc.)	Lot	808
13	20mm PVC Conduit & accessories	Mts.	21000
14	Cable Laying Charges	Mts.	21000
15	Supply, Installation, Testing & Commissioning (SITC) of the Surveillance system	Job	24
16	Central Video Monitoring Software	License	616
17	Comprehensive Maintenance of Surveillance Infrastructure for addl. two years	Per Site	24

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4 BILL OF MATERIAL

The Bidder has to Supply, Installation, Testing, Commissioning (SITC) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal .

Support services post commissioning of the following items for 03(Three) years.

Warranty for all items – 1 year & 2 years CAMC

Location – Various Locations Under the jurisdiction of West Bengal Police & Kolkata Police.

The **BoM** for installation of CCTV Surveillance and 12 months storage of Audio and Video at 260 Police Stations and other sites of **West Bengal Police**.

4.1 BoM for West Bengal Police			
SL.	Item	Quantity	Unit
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	2488	No.
2	4MP IP Bullet Camera (IR Range: 80 mts.)	994	No.
3	24-Bay Video Storage	120	No.
3a	16-Bay Video Storage	127	No.
3b	8 Channel NVR with 8 Storage bays	13	No.
4	10TB Enterprise HDD	3862	No.
5	Ork Station: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	260	No.
6	2KVA UPS with std. backup	260	No.
7	32" FHD IPS Display	260	No.
8	L2 Smart-managed 16-Port PoE Switch	260	No.
8a	L2 Smart-managed 8-Port PoE Switch	241	No.
9	Cat6 UTP Cable	124340	Mts.
10	6U Wall Mount Indoor Networking Rack	501	No.
10a	9U Rack with accessories	260	No.
11	Network Accessories (Patch Panel, Patch Chord, Jack Panel, I/O Box etc.)	260	Lot
12	20mm PVC Conduit & accessories	124340	Mts.
13	Cable Laying Charges	124340	Mts.
14	Supply, Installation, Testing & Commissioning (SITC) of the Surveillance system	260	Job
15	Central Video Monitoring Software	3482	License
16	Comprehensive Maintenance of Surveillance Infrastructure for addl. two years	260	Sites

- The above BoQ is based on the estimated requirement for the project.
- Bidders must verify the BoQ for the Police stations and modify the estimated quantity, during installation. The price submitted by bidders shall be based on the minimum quantity for each item indicated above.
- Bidders must take the variation of the BoQ into consideration during bidding, and no further addition to the cost of the project shall be permitted.

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The **BoM** for installation of CCTV Surveillance and 12 months storage of Audio and Video at 24 Police Stations of **Kolkata Police**.

4.2 BoM for Kolkata Police			
SL	Item	Unit	Quantity
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	No.	490
2	4MP IP Bullet Verifocal Camera (IR Range: 50 mts.)	No.	126
3	48-Bay Video Storage	No.	20
4	24-Bay Video Storage	No.	8
5	10TB Enterprise HDD	No.	749
6	Work Station: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	No.	24
7	3KVA UPS with 1 hr. backup	No.	24
8	32" FHD IPS Display	No.	25
9	L2 Smart-managed 16-Port PoE Switch	No.	50
9a	L2 Smart Managed 8-Port POE Switch	No.	50
10	Cat6 UTP Cable	Mts.	21000
11	6U Wall Mount Indoor Networking Rack	No.	100
11a	9U Wall mount Indoor Rack + Accessories	No.	24
12	Network Accessories (Patch Panel, Patch Chord, Jack panel, I/O box etc.)	Lot	808
13	20mm PVC Conduit & accessories	Mts.	21000
14	Cable Laying Charges	Mts.	21000
15	Supply, Installation, Testing & Commissioning (SITC) of the Surveillance system	Job	24
16	Central Video Monitoring Software	License	616
17	Comprehensive Maintenance of Surveillance Infrastructure for addl. two years	Site	24

- The above BoQ is based on the estimated requirement for the project.
- Bidders must verify the BoQ for the Police stations and modify the estimated quantity, during installation.
- The price submitted by bidders shall be based on the minimum quantity for each item indicated above.
- Bidders must take the variation of the BoQ into consideration during bidding, and no further addition to the cost of the project shall be permitted.

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4.3 COMBINED BILL OF MATERIALS (WBP+KP)

Sl.	Item	Unit	WBP BOQ	KP BOQ	Total
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	No.	2488	490	2978
2	4MP IP Bullet Verifocal Camera (IR Range: 50 mts.)	No.	0	126	126
3	4MP IP Bullet Camera (IR Range: 80 mts.)	No.	994	0	994
4	48-Bay Video Storage	No.	0	20	20
4a	24-Bay Video Storage	No.	120	8	128
4b	16-Bay Video Storage	No.	127	0	127
5	8 Channel NVR with 8 Storage bays	No.	13	0	13
6	10TB Enterprise HDD	No.	3862	749	4611
7	Work Station: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	No.	260	24	284
8	2KVA UPS with std. backup	No.	260	24	284
9	32" FHD IPS Display	No.	260	24	284
9a	L2 Smart-managed 16-Port PoE Switch	No.	260	50	310
10	L2 Smart-managed 8-Port PoE Switch	No.	247	50	297
11	Cat6 UTP Cable	Mts.	124340	21000	145340
11a	6U Wall Mount Indoor Networking Rack	No.	501	100	601
12	9U Rack with accessories	No.	260	24	284
13	Network Accessories (Patch Panel, Patch Chord, Keystone Jack, etc.)	Lot	260	24	284
14	20mm PVC Conduit & accessories	Mts.	124340	21000	145340
15	Cable Laying Charges	Mts.	124340	21000	145340
16	Supply, Installation, Testing & Commissioning (SITC) of the Surveillance system	Job	260	24	284
17	Central Video Monitoring Software	License	3482	616	4098
18	Comprehensive Maintenance of Surveillance Infrastructure for addl. two years	Sites	260	24	284

- The above BoQ is based on the estimated requirement for the project.
- Bidders must verify the BoQ for the Police stations and modify the estimated quantity, if required.
- The price submitted by bidders shall be based on the minimum BOM indicated above.
- Bidders must take the variation of the BoQ into consideration during bidding, and no further addition to the cost of the project shall be permitted.

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SECTION – C

DATE AND TIME SCHEDULE

5 Tender Schedule

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	11.10.2021
2	Documents download/sale start date (Online)	11.10.2021
3	Last Date and time of sending the queries (Offline)	16.10.2021 at 15.00 hrs.
4	Pre Bid Meeting at WTL Office (Off Line)	18.10.2021 at 14.00 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	27.10.2021 at 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)	01.11.2021 at 13.00 hrs.
10	Bid opening date & time for Technical Proposals (Online)	03.11.2021 at 13.00 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)	-

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SECTION – D

ELIGIBILITY CRITERIA

6 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 sector. Relevant document to be submitted.
3. The bidder should have been operating for the last 15 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 to be submitted.
4. The bidder must have their Registered/ Branch office in West Bengal. 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. Bidder should have own local call center number (Undertaking letter should be submitted from the bidders) OEM Call Centre number will not be treated as bidder's call center number. Call Center details for bidder with number & detailed to be submitted. Bidder shall have to submit the Complain/Call escalation matrix in their own letterhead with undertaking.
7. The bidder shall have executed "Similar Nature" of single order an amount not less than **Rs.30.00 Crore** in last 05 (Five) financial years (considering FY – 2015-2016, 2016-2017, 2017-18, 2018-19, 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.

OR

The bidder shall have executed "Similar Nature" of two orders in total amount not less than **Rs.32.00 Crore** in last 10 (Ten) financial years (considering FY period from 2010-2011 TO 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.

OR

The bidder shall have executed "Similar Nature" of three orders in total amount not less than **Rs.36.00 Crore** in last 10 (Ten) financial years (considering FY period from 2010-2011 TO 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.

8. The bidder must have completed Supply, Installation, Testing and Commissioning of any CCTV Surveillance project, worth all-inclusive cumulative amount of Rs. 5 crores only, in any year during last five financial years for any Govt. Departments or Public Sector Undertakings.
9. The bidder should have a minimum **annual turnover** of not less than Rs. **45.00 Crore** in the last financial year (2019-20)). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
10. The bidder should have a minimum total **annual turnover** of not less than **Rs. 110.00 Crore** in the last 03

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(Three) financial years (considering FY –2017-18, 2018-19, 2019-20)). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.

11. Bidder should have Positive net worth for last 05 (Five) financial years.
12. The bidder shall have Quality Certificate (ISO 9001:2015). The bidder has to ensure that the certificate remains valid during the life cycle of the project. Copy of Certificate to be submitted.
13. The bidder must submit the Manufacturers Authentication Form (MAF) for Camera, Storage, Computer, Display, Networking items (Active & Passive) and UPS as per prescribed format enclosed (Section - P), along with Technical Compliance statements. Without these documents the offer will be treated as non-responsive and summarily rejected.
14. 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.
15. The bidder shall submit Bid Form (Section – G) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
16. 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 – E

INSTRUCTIONS 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 RFP, 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.

“GoI” shall stand for the Government of India.

“GoWB” means Government of West Bengal.

“WBP” means West Bengal Police.

“KP” means Kolkata Police

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

“Similar Nature of Work” means Works entailing completion of a project in the field of CCTV / VSS / Surveillance / IT / ITeS/ ICT/ Telecom for any Govt. Departments or Public Sector Undertakings.

“Project” Supply, Installation, Testing, Commissioning (SITC) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal

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

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“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.

“WTL” means Webel Technology Limited a Govt. of W. Bengal undertaking.

1. PRE-BID MEETING

Pre Bid Meeting will be held on 18.10.2021 at 14.00 hrs. (On-Line Meeting). Bidder can send their queries as per format (Section - N) to Manager (Purchase) (purchase@wtl.co.in). Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. 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.

2. COST OF BIDDING

The bidder shall bear all costs associated with the preparation and submission of the bid and WTL will no case be responsible for those costs regardless of the conduct or outcome of the bidding process.

3. 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.

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

5. MODIFICATION AND WITHDRAWAL OF BIDS

The bidder cannot modify or withdraw its bid after submission.

6. 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

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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.

7. 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 taken care by the contractor to maintain the guaranteed uptime.

8. EARNEST MONEY DEPOSIT (EMD) & TENDER FEE

The bidder shall furnish Online Receipt against payment of Tender Fees and Earnest Money Deposit.

9. REFUND OF EMD

EMD will be refunded to the unsuccessful bidders without interest by following guidelines of circular 3975-F(Y) dated 28/07/2016 on final selection of Successful Bidders.

10. 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.

11. 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.

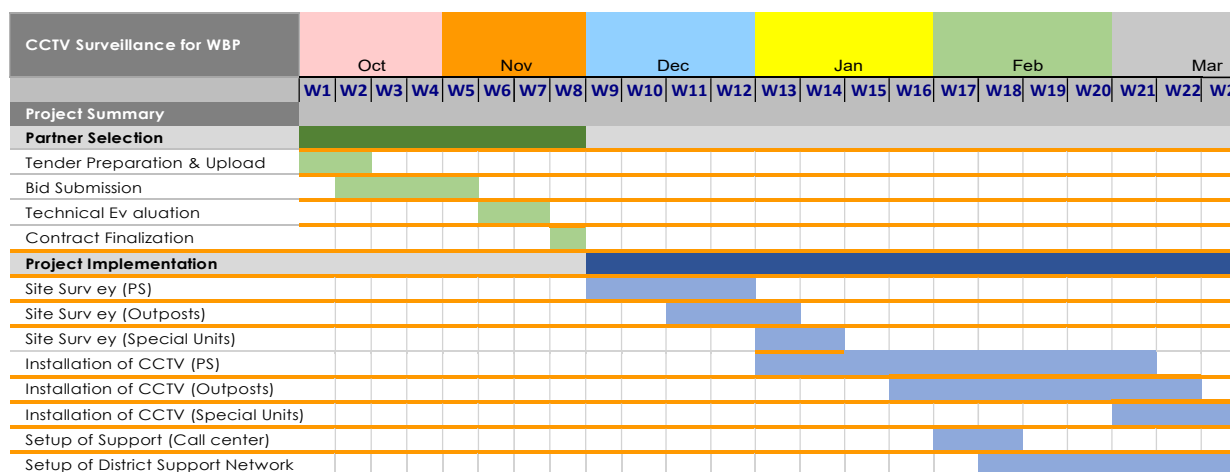
12. CONTRACT EXECUTION

On receipt of the Letter of Award/Purchase Order the contractor should submit a Performance Bank Guarantee (PBG) equivalent to 10% 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. All delivery of the material will have to be completed within 45 days from the date of acceptance of contract and the contractor has to ensure all activities leading to the commissioning of the contract to be completed within 75 days from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

13. TIME SCHEDULE FOR DELIVERY & INSTALLATION

The CCTV surveillance project for WBP & KP, Phase I, shall commence on the award of the contract to the implementation partner through a selection process. The overall implementation of the 260 sites for WBP and 24 sites of KP is estimated to be completed within 4 months from the award of the contract for SI partner, by WTL.

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Overall Project Implementation Timeline (WBP & KP)

14. LOCATION FOR DELIVERY & INSTALLATION

As mentioned in Section – A (BACKGROUD & OBJECTIVE OF THE PROJECT)

16. LIQUIDATED DAMAGE / PENALTY

Be-spoke Software & ICCC Platform: LD clause:

- 0.5% of the total Software bill value of this segment for every 168 hours delay in meeting the delivery schedule

Hardware: LD clause:

- 0.5% of the total Hardware bill value of this segment for every 168 hours delay in meeting the delivery schedule
- 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
- The maximum deductible is capped at 10% of the total year wise SLA value.

Vendor Termination Clause: -

- 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.

17. 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.

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18. PATENTS & COPYRIGHT

If a third party claims that a product delivered by the Contractor to WTL infringes that party's patent or copyright, the Contractor shall defend WTL against that claim at Contractor's expense and pay all costs, damages, and attorney's fees that a court finally awards or that are included in a settlement approved by the Contractor, provided that WTL.

- Promptly notifies Contractor in writing of the claim
- Allows Contractor to control and co-operate with Contractor in the defense and any related settlement negotiations.

Remedies: If such a claim is made or appears likely to be made, WTL would permit Contractor to enable WTL to continue to use the product, or to modify it, or replace it with one that is at least functionally equivalent. If Contractor determines that none of these alternatives is reasonably available, WTL agrees to return the product to Contractor on Contractor's written request. Contractor will then give WTL a credit equal to for a machine. WTL's net book value (provided WTL has followed generally accepted accounting principles for a generally available software product produced by Contractor (Program) the amount paid by WTL or 12 months charges (whichever is lesser) and for materials the amount paid by WTL for the materials. These will be Contractor's entire obligation regarding any claim of infringement.

19. 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.

20. 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:

1. Payment Against Delivery – 50% of the Cost of Materials (Active and Passive Components) delivered at Installation Site.
2. Payment Against Installation & Commissioning – 30% payment (Active/Passive and SITC Cost) prorated on monthly basis, based on actual number of sited installed in the month, for 4 months.
3. 10% on successful installation and commissioning at all sites listed, after 60 days from completion of installation and commissioning.
4. 10% on completion of 1 year warranty period, subject to SLAs agreed upon during the signing of contract, with applicable penalties deducted as per agreement.

Payment for 2 years additional AMC and Support charges, shall be as per the following schedule:

1. Payment shall be made after every 6 months, in 4 equal parts of 25% of the total 2 years support and AMC charges quoted.
2. Payment for AMC Support for 2 years shall be governed by the SLA for AMC support as defined in the tender document and agreed upon in the final contract.
3. AMC and support charges shall be paid on back to back basis by WTL, after deduction of any penalty for the SLAs agreed.

21. 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,

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code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

22. 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.

23. BIDDING 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.

24. 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.

25. 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.

26. SAFETY MEASURES

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

27. 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.

28. 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.

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29. 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.

30. 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.

31. FORCE MAJEURE

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

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

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.

32. 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

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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.

33. WARRANTY & MAINTENANCE

- Contractor will have to give 3 (three) years comprehensive warranty on all components including software from the date of go-live of the solution.
 - 1 year Warranty of all products &
 - 2 year additional Comprehensive Warranty/AMC 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

35. 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 as security in the form of Performance Bank Guarantee from any nationalized bank as per format enclosed (Section – O).

36. SI/BIDDER/CONTRACTOR'S RESPONSIBILITIES

Refer Section – A (BACKGROUND & OBJECTIVE OF THE PROJECT)

37. 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.

38. GRAFTS, COMMISSIONS, GIFTS, ETC.

It is the Purchaser's policy to require that bidders, suppliers, contractors and consultants under contracts, observe the highest standard of ethics during the procurement and execution of such contracts. Any graft, commission, gift or advantage given, promised or offered by or on behalf of the contractor or his partner, agent, officers, director, employee or servant or any one on his or their behalf in relation to the obtaining or to the execution of this or any other contract with WTL shall in addition to any criminal liability which it may incur, subject the contractor to the cancellation of this and all other contracts and also to payment of any loss or damage to WTL resulting from any cancellation. WTL shall then be entitled to deduct the amount so payable from any monies otherwise due to the contractor under contract.

39. 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.

40. 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

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increase its rates.

41. 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.

42. DISCREPANCIES IN BID

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

43. BID DUE DATE

The online 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 fax, 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.

44. LATE BID

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

45. OPENING OF BID BY WTL

Bids shall be opened and downloaded electronically through operation of the process in the e-Tender portal in presence of Tender Committee. Bidders interested to remain present during electronic bid opening may attend the bid opening session at WTL premises at scheduled date & time.

46. 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.

47. 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.

48. BID CURRENCIES

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

49. 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.

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- 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.

50. CANVASSING

Canvassing or support in any form for the acceptance of any tender is strictly prohibited. Any bidder doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.

51. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

52. 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.

53. 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.

54. 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.

54. 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.

55. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

- a) Tenders shall be submitted in the prescribed forms. Digital signatures shall be used. Where there is conflict between the words and the figures, the words shall govern.
- b) All notations must be in ink or type written. No erasing or overwriting will be permitted. Mistakes may be crossed out and corrections typed or written with ink adjacent thereto and must be initialed in ink by the person or persons signing the tender.
- c) Tenders shall not contain any recapitulation of the work to be done. Alternative proposals will not be considered unless called for. No written, oral, telegraphic or telephonic proposals for modifications will be acceptable.
- d) Tenders shall be uploaded as notified on or before the date and time set for the opening of tenders in the Notice Inviting Tenders.
- e) Tenders subject to any conditions or stipulations imposed by the bidder are liable to be rejected.
- f) Any bidder may withdraw his tender by written request at any time prior to the scheduled closing time for receipt of tenders and not thereafter.

56. 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.

57. FINAL INSPECTION

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

58. SITE INSPECTION

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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.

59. 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.

60. 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.

61. 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.

62. QUALITY CONTROL

- The contractor is obliged to work closely with WTL and/or West Bengal State Beverages Corporation Ltd., 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 West Bengal State Beverages Corporation Ltd. from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL and West Bengal State Beverages Corporation Ltd. 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/ West Bengal State Beverages Corporation Ltd..
- 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.

63. SERVICE LEVEL FOR SUPPORT (SLA)

#	SLA Parameter	Turnaround Time for Support	Target Uptime/year
1	Availability of Cameras,	48 Hrs./2 Days	99.00%
2	Availability of Storage and Switches, Work Station	72 Hrs./3 Days	98.00%
3	Availability Passive Network & VMS	96Hrs/4 Days	98.00%

Definition:

1. "Availability" means availability of
 - the camera feed to the Police Stations

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- Active Components: PoE Switch/Storage & HDD/Workstation/UPS
 - Passive Components: Network Points, 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. 500/- per day, after the allowed turnaround time for support , per camera
 - Rs. 1000/- per day after the allowed turnaround time for support, for each of the other active components (Workstation, Storage, PoE Switches, UPS)
 - Rs. 400/- per day after the allowed turnaround time for support for passive components, excluding power outlets and other accessories.
 - The total amount of penalty for a quarter/six month period shall not exceed 5% of the billable amount for the period (Quarter/6 Months).
 - Any fraction of the day on which the repair/replacement is completed, shall be counted as 1 day.
 - The PBG (Performance Bank Guarantee) may be forfeited if the penalty amount for any Quarter/6 month period is higher than 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.

64. CONSORTIUM: No Consortium / Joint Venture will be allowed. The bidder must meet all the eligibility criteria by itself.

65. 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.

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- 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) Below mentioned clauses are applicable for all OEM / Products & Bidders :

Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority [DPIIT OM No.6/18/2019- PPD dated 23.07.2020].

- a. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
 - b. "Bidder from a country which shares a land border with India" for the purpose of above-mentioned Order means:
 - i. An entity incorporated, established or registered in such a country; or
 - ii. A subsidiary of an entity incorporated, established or registered in such a country; or
 - iii. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - iv. An entity whose beneficial owner is situated in such a country; or
 - v. An Indian (or other) agent of such an entity; or
 - vi. A natural person who is a citizen of such a country
- n) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

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SECTION – F

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

7 Evaluation Procedure

- The Eligibility Criteria (Section - D) 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 – O) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- After qualifying in Technical Specification, qualified bidders will only be considered for Financial Bid evaluation.
- The bidders will be evaluated on Eligibility Criteria for Bidder and OEMs proposed, and the technical solution proposed. Bidders with the minimum marks (70 out of 100) will be eligible for price bid evaluation.
- The basis of price bid evaluation shall be “Lowest Competitive Price Bid”. That is the technically qualified bidder with the lowest price quoted will be declared successful bidder and will be allowed for implementation of the solution within specified time limit and comprehensive warranty support for a period of three years.

Sl.	Criteria/ Sub Criteria	Description	Supporting Documents	Marks
1	<p>The bidder shall have executed “Similar Nature” of single order an amount not less than Rs.30.00 Crore in last 05 (Five) financial years (considering FY – 2015-2016, 2016-2017, 2017-18, 2018-19, 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.</p> <p style="text-align: center;"><u>OR</u></p> <p>The bidder shall have executed “Similar Nature” of two orders in total amount not less than Rs.32.00 Crore in last 10 (Ten) financial years (considering FY period from 2010-2011 TO 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.</p> <p style="text-align: center;"><u>OR</u></p> <p>The bidder shall have executed “Similar Nature” of three orders in total amount not less than Rs.36.00 Crore in last 10 (Ten) financial years (considering FY period from 2010-2011 TO 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.</p>	<p>Completion of Project/ Go-Live of the project is mandatory.</p> <p>(One order meeting the requirement, 30 Marks. Two Orders meeting the requirement – 25 Marks Three Orders meeting the requirement – 20 Marks)</p>	<p>Work Completion Certificates/ Go-Live Certificates & Work Order from the client.</p>	30
2	<p>Existing Support Infrastructure in West Bengal: Bidder must provide details of existing service and support infrastructure in Kolkata & West Bengal for last 5 years. OEM Repair Center in Kolkata – The Proposed OEMs must have own repair center registered in West Bengal for last</p>	<p>List of Service centers, technical resources in service center with contact number and years of experience in support services. (10 Marks)</p> <p>OEM Repair center details,</p>	<p>Documentary evidence of Service/Support setup in West Bengal, including office address, list of manpower resources with contact number. Documentary evidence of OEM repair and service</p>	20

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	<p>3 years. Call center in Kolkata – Bidders must have own call center in Kolkata with required resources to register complaints on Government working days.</p>	<p>with the documentation of registration under shops & establishment in Kolkata (5 Marks)</p> <p>Existing Call center setup details with list of resources, names, contact number, and toll free number (5 Marks)</p>	<p>center in Kolkata for all OEMs proposed.</p> <p>Call center details with documentary evidence.</p>	
3	<p>Technical Proposal</p>	<p>To be evaluated from the technical proposal documentation submitted. It would be evaluated on following parameters :</p> <p>Compliance to the Technical Specifications with submitted unpriced BOM with exact make/ model & quantity (10 Marks), Data Sheets & exact Product Catalogue/ Brochure submitted by the bidder as per specifications in the RFP. (10 Marks)</p> <p>Various Compliance Certificates for all product OEMs required as per RFP (10 Marks). Technical Proposal evaluation marks are calculated on the basis of compliance make/models and OEM compliance specified in the tender; <i>no major non-compliance will be allowed.</i></p>	<p>Exact Product Catalogue/ Brochure which is available in website/ online. All Certificates mentioned in the RFP Document is mandatory</p>	30
4	<p>Technical Presentation, Solutions proposed, Demonstration</p>	<p>Solution Overview, Knowledge/ Understanding of the RFP document, Implementation and support process of the Project & Demonstration of the Technology (CCTV Surveillance + Storage + VMS) == 5+5+10 = 20 Marks).</p>	<p>Demonstration of the Technology is mandatory otherwise the bid shall be rejected.</p>	20
<p>i. <u>To qualify the technical evaluation, the bidder must score a minimum of 70 marks.</u></p> <p>ii. <u>The bidder has to comply technical specifications of all line items.</u></p>				

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8 AWARDING OF CONTRACT

An affirmative Post Qualification determination will be prerequisite for award of the contract to the most overall responsive 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. WTL will award the contract to the successful bidder whose bid has been determined to be substantially responsive after final negotiation may held with the most responsive bidder, if required. This is a turnkey job in a nature, so bidder(s) to quote all the items mentioned in the tender document, which can ensure single point contact / sole responsibility of the bidder(s) towards project execution. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee.

1. POST QUALIFICATION

The determination will evaluate the Bidder's financial, technical 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.

WEBEL TECHNOLOGY LIMITED

SECTION – G

BID FORM

(Bidders are requested to furnish the Bid Form in the Format given in this section, filling the entire Blank and to be submitted on Letter Head in original)

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

Sub: Supply, Installation, Testing, Commissioning (SITC) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal.

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/HHA/CCTV/21-22/021 dated 11.10.2021, 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 enclosed the EMD remittance details for a sum of Rs. 50,00,000/-.
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 (10%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Dated, thisday of2021

Thanking you, we remain,
Yours faithfully

WEBEL TECHNOLOGY LIMITED

.....
Signature

.....
Name in full

.....
Designation

Signature & Authorized Verified by

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

WEBEL TECHNOLOGY LIMITED

SECTION – H

GUIDANCE FOR E-TENDERING

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

1. 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.

2. 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.

3. 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.

4. 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.

5. Submission of Tenders:

Tenders are to be submitted through online to the website stated above in two folders at a time, one in Techno Commercial Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats)

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

Techno Commercial Cover:

Technical Document1

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

Technical Document2

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

8.1 Technical Compliance

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

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.

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NON-STATUTARY 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
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> • Document as per Clause – 1 of Part A of Section – D • Document as per Clause - 2 of Part A of Section – D • Declaration as per Clause no. 8 of Section – C
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> • Order copies & Completion Certificates as per Clause - 1 of of Part B of Section – D • Order copies as per evaluation criteria (Section – F)
C	CREDENTIAL	CREDENTIAL 1	<ul style="list-style-type: none"> • Document as per Clause – 5 of Part B of Section – D • Call Center details as per Clause - 6 of Part B of Section – D • Declaration as per Clause no. 11 of Section – D
		CREDENTIAL 2	<ul style="list-style-type: none"> • Payment Certificate as per evaluation criteria (Section – F) • Customer Feedback as per evaluation criteria (Section – F)
D	DECLARATION	DECLARATION 1	Supporting Documents as per Clause – 7 (a), Part B of Section – D
		DECLARATION 2	<ul style="list-style-type: none"> • Technical Capability of the Bidder as per format (Section – I) • Financial Capability of Bidder as per format (Section – J)
		DECLARATION 3	<ul style="list-style-type: none"> • Bidder's Details as per format (Section – K) • Document as per Clause – 10 of Section – D
		DECLARATION 4	Supporting Documents as per Clause – 7 (b), Part B of Section – D
		DECLARATION 5	Document of Manpower as per evaluation criteria (Section – F)
F	FINANCIAL INFO	P/L & BALANCE SHEET 2017-2018	P/L & BALANCE SHEET 2017-2018
		P/L & BALANCE SHEET 2018-2019	P/L & BALANCE SHEET 2018-2019
		P/L & BALANCE SHEET 2019-2020	P/L & BALANCE SHEET 2019-2020

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SECTION – I

FORMAT FOR TECHNICAL CAPABILITY OF BIDDER

(Tender No. WTL/HHA/CCTV/21-22/021)

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: _____

8.2 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 – J: FORMAT FOR FINANCIAL CAPABILITY OF BIDDER

FORMAT FOR FINANCIAL CAPABILITY OF BIDDER

(Tender No. WTL/HHA/CCTV/21-22/021)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2017-2018	2018-2019	2019-2020
1				

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

- 8.3 Note:**
Submit the Audited Financial Statement / Audited Accounts of the last three financial years.

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SECTION – K: FORMAT FOR BIDDER’S DETAILS

FORMAT FOR BIDDER’S DETAILS

(Tender No. WTL/HHA/CCTV/21-22/021)

1	Name of the Firm	
2	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
	E-mail	
4	Is the firm a registered company? If yes, submit documentary proof	
	Year and Place of the establishment of the company	
5	Former name of the company, if any	
6	Is the firm <ul style="list-style-type: none"> ▪ a Government/ Public Sector Undertaking ▪ a propriety firm ▪ 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. 	
7	Is the firm registered with Sales Tax department? If yes, submit valid VAT Registration certificate.	
8	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
9	Total number of employees. Attach the organizational chart showing the structure of the organization.	
10	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
11	How many years has your organization been in business under your present name? What were your fields when you established your organization	
12	What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary) <ul style="list-style-type: none"> ▪ Manufacturer ▪ Supplier ▪ System Integrator ▪ Consultant ▪ Service Provider (Pl. specify details) ▪ Software Development ▪ Total Solution provider (Design, Supply, Integration, O&M) ▪ IT Company 	
13	Number of Offices in district head quarters in West Bengal	
14	Is your organization has ISO 9001:2015 certificates?	
15	List the major clients with whom your organization has been / is currently associated.	
16	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)	
17	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 – L

FORMAT FOR PRE-BID MEETING QUERIES

(Tender No. WTL/HHA/CCTV/21-22/021)

Name of the Bidder:

Queries

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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

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SECTION – M

PROFORMA FOR PERFORMANCE BANK GUARANTEE

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

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

Ref

Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

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

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

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

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

(5) The liability under the Guarantee is restricted to Rs. _____ (Rupees _____) only and will expire on _____ and unless a claim in writing is presented to us or an action or suit to enforce the claim is filled against us within 3 months from _____ all your rights will be forfeited and we shall be relieved of and discharged from all our liabilities (thereinafter)

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

WEBEL TECHNOLOGY LIMITED

(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

WITNESS

1) _____

(Stamp of the executants)

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 Vendor are requested to mention the Purchase Order / Contract / Work Order reference along with the B. G. No. for making any future queries to WTL

WEBEL TECHNOLOGY LIMITED

SECTION – N

MAKE, MODEL & PART NUMBER (Tender No. WTL/WBPKP/CCTV/21-22/000)

(1) For West Bengal Police

SL.	Item	Quantity	Unit	Make	Model	Part No.
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	2488	No.			
2	4MP IP Bullet Camera (IR Range: 80 mts.)	994	No.			
3	24-Bay Video Storage	120	No.			
3a	16-Bay Video Storage	127	No.			
3b	8 Channel NVR with 8 Storage bays	13	No.			
4	10TB Enterprise HDD	3862	No.			
5	Work Station: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	260	No.			
6	2KVA UPS with std. backup	260	No.			
7	32" FHD IPS Display	260	No.			
8	L2 Smart-managed 16-Port PoE Switch	260	No.			
8a	L2 Smart-managed 8-Port PoE Switch	241	No.			
9	Cat6 UTP Cable	124340	Mts.			
10	6U Wall Mount Indoor Networking Rack	501	No.			
10a	9U Rack with accessories	260	No.			
11	Network Accessories (Patch Panel, Patch Chord, Jack Panel, I/O Box etc.)	260	Lot			
12	20mm PVC Conduit & accessories	124340	Mts.			
13	Central Video Monitoring Software	3482	License			

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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(2) For Kolkata Police

SL	Item	Unit	Quantity	Make	Model	Part No.
1	4MP IP Dome Camera with in-built Audio (IR Range: 30 mts.)	No.	490			
2	4MP IP Bullet Verifocal Camera (IR Range: 50 mts.)	No.	126			
3	48-Bay Video Storage	No.	20			
4	24-Bay Video Storage	No.	8			
5	10TB Enterprise HDD	No.	749			
6	Work Station: Intel Ci7, 16GB RAM, 1TB SSD HDD, 4GB GPU, Windows 10	No.	24			
7	3KVA UPS with 1 hr. backup	No.	24			
8	32" FHD IPS Display	No.	25			
9	L2 Smart-managed 16-Port PoE Switch	No.	50			
9a	L2 Smart Managed 8-Port POE Switch	No.	50			
10	Cat6 UTP Cable	Mts.	21000			
11	6U Wall Mount Indoor Networking Rack	No.	100			
11a	9U Wall mount Indoor Rack + Accessories	No.	24			
12	Network Accessories (Patch Panel, Patch Chord, Jack panel, I/O box etc.)	Lot	808			
13	20mm PVC Conduit & accessories	Mts.	21000			
14	Cable Laying Charges	Mts.	21000			
15	Central Video Monitoring Software	License	616			

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

Section – O

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT

(Tender No. WTL/HHA/CCTV/21-22/021)

Active Component Specifications

1. CCTV Camera & Video Storage Specifications

Eligibility Criteria for CCTV, VMS & Enterprise Storage OEM:

SL	Eligibility Criteria	Compliance with Document
1	Original Equipment Manufacturer (OEM) of Camera & Storage, should have Average Annual Financial Turnover not less than Rs.500 Crores. (in India only for CCTV works) for the last three years ending March 2018	
2	CCTV OEM company for Camera/Storage should have its own company registered in India (under Incorporation of Companies Act, 1956/ 2013) since last 15 years. Any representation through a Dealer/ Distributor/ Joint Venture/ consortium/ subsidiary shall not be treated as OEM. This has to be supported by necessary statutory documents	
3	CCTV OEM company should not be technically rejected in any Govt. tender in WB for their origin from any land border sharing countries of India.	
4	OEM should have Service Centers in WB in their own name. This is to be supported with documentary evidence.	
5	The CCTV OEM should have CMMI Level 5 or above or equivalent certification.	
6	OEM shall enter into agreement/ MoU with System Integrator to support the project for the contract period (i.e. Warranty and AMC period).	
7	The CCTV OEM should have below ISO Certifications for Quality, Environment, Security management and Health & Safety Management system for manufacturing of all types of Cameras & NVR/ DVR/Storage. All the CCTV Components (Camera, VMS, NVR, DVR, etc) should be from same OEM for seamless integration and ease of operation. The Bidder/s shall attach the copy of the OEM's ISO Certificate along with the bid. > ISO9001:2015 > ISO 14001:2015 > ISO 27001:2013 > ISO 45001:2018	
8	Malicious Code Undertaking Letter By OEM	
9	Camera of only those make which have CE FCC BIS and UL certifications shall be eligible for participating in the tender.	
10	The OEM should have cloud for plug & play remote viewing; the Cloud must be hosted in INDIA for protection of public privacy and related data from security threats.	
11	Certificate of Non-Obsolescence:	
12	OEM must provide a certificate that the proposed model of CCTV products must not become obsolete /End of Life (EOL) within a period of 5 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.	

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13	The OEM of the IP Camera, Storage, NVR/ VMS Software and Network Switches should not be blacklisted or banned by any country or government department globally. The OEM Should not have any cheating or fraud case filed against their company for their respective product line. The country of origin of CCTV OEM should not have strained trade relation with India.	
14	OEM should not be banned/sanctioned upon by ONVIF.	

I) CENTAL VIDEO MONITORING SOFTWARE (CVMS)

Minimum Specification of CENTAL VIDEO MONITORING SOFTWARE (CVMS)	
Qty.	
Make	
Model	
Part No.	

CENTAL VIDEO MONITORING SOFTWARE (CVMS)

SL	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Feature	Must support IP camera, DVR, NVR, NVS, video wall controller, ACS, Video Intercom, Time Attendance system etc		
2	Device Support	Must support up to 256 device		
3	Channel Support	Must support minimum 2000 channel		
4	Preview	Must support up to 64x4 channel preview		
5	FishEye Support	Must support Fisheye EPTZ function by using optical mouse		
6	Health Monitoring	Must support monitoring of Device status, alarm infor and acknowledgemen, HDD status etc		
7	Synchroni ze playback	Must support up to 36 channel instant playback at a time		
8	Additional Feature	Must support video & record deirectly to PC on a virtual NVR toreduce overall cost, up to 16 channel.		
9	Configuration Option	Must support device configuration, PTZ, image, event management, recording schedule, disk management, account management, maintenance etc		
10	Account Management	Must support user and role management; privileges according to module & device		
11	No of Map support	Main group unlimited, sub group up to 64 maps		

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12	Alarm support	Must support center alarm for organizing alarm channels as whole system		
13	PTZ control	Must support PTZ control through joystick or by using optical mouse		
14	Advance Report Option	Must support to search People Counting, heatmap etc report		
15	Supported Platform	Must support Windows as well as Mac platform		
16	Alarm Prompt	Must support Alarm Prompt feature		
17	Device Add	Must support both Auto Add & Manual Add from day 1		
18	Device Configuration	Must be possible to configure the device from CMS		

II) 4MP FIXED LENS BULLET CAMERA (80 m IR range)

Minimum Specification of 4MP FIXED LENS BULLET CAMERA (80 m IR range)

Qty.	
Make	
Model	
Part No.	

4MP FIXED LENS BULLET CAMERA (80 m IR range)

SL	Feature	Specification	Compliance (Yes/No)	Ref. page
1	Resolution	Minimum 4MP (2688×1520) for high definition video quality		
2	Image Sensor	The camera should be equipped with a minimum of 1/2.7" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.		
3	Lens Range	The camera should be provided with an OEM fitted 3.6mm lens (6/8/12mm optional)		
4	Angle of View	3.6mm: H: 84°; V: 45°; D: 100°, 6mm: H: 52°; V: 28°; D: 61°, 8mm: H: 40°; V : 23°; D: 45° ,12mm: H: 24°; V: 14°; D: 29° or better		
5	Video Compression	H.265+/H.265/H.264+/H.264/H.264H; H.264B; MJPEG		
6	Frame Rate	The camera should capture images at a frame rate of 25/30fps @ 4MP (2688×1520) so as to give a swift video output even in case of fast moving objects.		
7	Minimum Illumination	0.005 Lux@F1.6 Color, 0Lux/F1.6(IR on)		
8	Starlight	Must support Starlight function from day 1		
9	Audio Input / Output	1 / 1 Audio Input / Output or better		
10	Audio Compression	G.711a/ G.711Mu/ AAC/ G.726 or better		

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11	Alarm Input / Output	2 / 2 Alarm Input / Output or better		
12	Privacy Masking	Camera should support up to 4 areas.		
13	Digital Zoom	Camera should support 16X Digital Zoom or better		
14	NAS Recording	Camera should support direct recording on NAS from 1st day		
15	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s		
16	S/N Ratio	More than 50dB		
17	ICR	The camera shall incorporate a physical ICR filter for quality images both during day and night		
18	IR Range	The camera should have inbuilt IR and cover distance up to 80 Mtr or above		
19	Video Streaming	The camera should output a master and two slave stream that are individually configurable. Should support Triple Streaming.		
20	ROI	The Camera should allow at least 4 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore Must give the capability to configure these streams individually		
21	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		
22	Wide-Dynamic-Range	The camera should give a WDR range of minimum 120 dB Real WDR (Must be Hardware driven)		
23	Noise Reduction	3D-DNR		
24	Camera Tampering	The camera shall provide real time tampering protection by means of alerts generated at the software.		
25	Pre/Post Event Buffering	The camera should support a least of 3 seconds of pre & post event buffering.		
26	Event Notification	Through Relays, E-Mails or FTP		
27	Network	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; ONVIF (Profile S/Profile G/ Profile T);		
28	Security	Security Password protection, HTTPS (SSL, TLS), IP filtering, IEEE 802.1X		
29	Micro SD Slot	Should support upto a maximum of 256GB micro-SD		
30	Others	Exposure Control, AGC, White Balance, day/night		
31	Video Content Analytics supported by Camera	Motion detection		
		Tripwire		
		Intrusion		
		Scene Change		
		Crossing line		
32	Network Ethernet	RJ-45 (10/100Base-T)		

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33	Bit Rate Consumption	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps or better		
34	Network Compatibility	ONVIF		
35	Power Source	The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible.		
36	Power Consumption	Not to exceed 10W		
37	Smart Phone	Must support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC		
38	Operation Temperature / Humidity	-40 °C to 60 °C / Less than 95% RH		
39	Weather Proof Standard	IP67 rated weather proofing standards		
40	Open Protocol	ONVIF Profile S, T, G or higher		
41	Certifications	UL, FCC, RoHS, CE, ISO, ONVIF certified		

III) 4MP Fixed Dome with Built-in Mic Specification

Minimum Specification of 4MP Fixed Dome with Built-in Mic Specification	
Qty.	
Make	
Model	
Part No.	

4MP Fixed Dome with Built-in Mic Specification

SL	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Resolution	Minimum 2688 × 1520 for high definition video quality		
2	Image Sensor	The camera should be equipped with a minimum of 1/3" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.		
3	Lens Range	The camera should be provided with an OEM fitted 2.8/3.6mm Board-in Lens		
4	Starlight	Must support starlight function to get color image even at night condition		
5	Video Compression	H.265+; H.265; H.264+; H.264; H.264B; MJPEG		
6	Frame Rate	The camera should capture images at a frame rate of 1-20 - 25/30fps @ 4MP so as to give a swift video output even in case of fast moving objects.		
7	Minimum Illumination	Color 0.01 Lux @ F1.6, 0Lux/F1.6(IR on)		
8	Privacy Masking	Camera should support up to 4 areas.		
9	Digital Zoom	Camera should 16X Digital Zoom or better		
10	NAS Recording	Camera should support direct recording on NAS from 1st day		

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11	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s		
12	Angle of View	2.8mm: H: 102.0° V: 55.0° D: 121.0°, 3.6mm: H: 84.0° V: 45.0° D: 100.0°		
13	ICR	The camera shall incorporate a physical ICR filter for quality images both during day and night		
14	IR Range	The camera should have inbuilt IR and cover distance up to 30 Mtr or above		
15	Video Streaming	The camera should output dual stream that are individually configurable.		
16	ROI	The Camera should allow at least 4 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore Must give the capability to configure these streams individually		
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	Edge Storage	Must have 256GB SD card slot from day one		
19	Built-in Mic	It is mandatory to have Built-in Mic with clear audio		
20	Noise Reduction	3D-DNR		
21	Camera Tampering	The camera shall provide real time tampering protection by means of alerts generated at the software.		
22	Pre/Post Event Buffering	The camera should support a least of 3 seconds of pre & post event buffering.		
23	Event Notification	Through Relays, E-Mails or FTP		
24	Network	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP, ONVIF (Profile S/Profile G); CGI		
25	Others	Exposure Control, AGC, White Balance, day/night		
26	Video Content Analytics & event trigger supported by Camera	Motion detection, video tempering, No SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection		
27	Edge Analytics	Must support Tripwire, Line Crossing, Intrusion from day one		
28	Network Ethernet	RJ-45 (10/100Base-T)		
29	Defog	Yes		
30	Network Compatibility	PSIA, CGI		
31	Power Source	The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible.		
32	Power Consumption	Not to exceed 5W		
33	Smart Phone	Must support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC		
34	Operation Temperature / Humidity	-40 °C to 60 °C / Less than 95% RH		
35	Weather Proof Standard	IP67 rated weather proofing standards		

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36	Open Protocol	ONVIF Profile S, G & T or higher		
37	Certifications	UL,FCC ,CE, RoHS, ISO, ONVIF certified (bidder must submit all the certificate along with bid document)		

IV) 4MP Motorized Varifocal Bullet Specification (50 mtr IR range)

Minimum Specification of 4MP Motorized Varifocal Bullet Specification (50 mtr IR range)	
Qty.	
Make	
Model	
Part No.	

4MP Motorized Varifocal Bullet Specification (50 mtr IR range)

SL	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Resolution	Minimum 4MP (2688 x1520) for high definition video quality		
2	Image Sensor	The camera should be equipped with a minimum of 1/2.9" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.		
3	Lens Range	The camera should be provided with an OEM fitted 2.7~13.5mm Motorized varifocal Lens		
4	Video Compression	H.265+/H.265/H.264+/H.264		
5	Frame Rate	The camera should capture images at a frame rate of 25/30fps @ 4M (2688×1520) so as to give a swift video output even in case of fast moving objects.		
6	Minimum Illumination	Color 0.02Lux/F1.6, 0Lux/F1.6(IR on)		
7	Privacy Masking	Camera should support up to 4 areas.		
8	Optical / Digital Zoom	Camera should support 5X Optical/ 16X Digital Zoom or better		
9	NAS Recording	Camera should support direct recording on NAS from 1st day		
10	Audio Compression	G.711a/ G.711Mu/ AAC/ G.726		
11	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s		
12	Flip Model	Must support flip mode from day 1		
13	ICR	The camera shall incorporate a physical ICR filter for quality images both during day and night		
14	IR Range	The camera should have inbuilt IR and cover distance up to 50 Mtr or above		
15	Video Streaming	The camera should output a master and two slave stream that are individually configurable. Should support Triple Streaming.		
16	ROI	The Camera should allow at least 4 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore Must give the capability to configure these streams individually		
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		

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18	Wide-Dynamic-Range	The camera should give a WDR range of minimum 120 dB Real WDR (Must be Hardware driven)		
19	Noise Reduction	3D-DNR		
20	Camera Tampering	The camera shall provide real time tampering protection by means of alerts generated at the software.		
21	Event Notification	Through Relays, E-Mails or FTP		
22	Network	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP		
23	Security	Security Password protection, HTTPS (SSL, TLS), IP filtering, IEEE 802.1X		
24	Micro SD Slot	Should support upto a maximum of 256GB micro-SD		
25	Others	Exposure Control, AGC, White Balance, day/night		
26	Video Content Analytics supported by Camera	Motion detection		
		Tripwire		
		Intrusion		
		Abandoned/Missing		
		Scene Change		
		Face detection		
		Crossing line		
		Object removal		
27	Network Ethernet	RJ-45 (10/100Base-T)		
28	Alarm In/Out	2/1 channel In/Out		
29	Audio In/Out	1/1 so as to equip the camera with 2-way audio		
30	Video Port (BNC)	1 Port (For adjustment locally without network)		
31	Network Compatibility	ONVIF, PSIA, CGI		
32	Power Source	The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible.		
33	Voltage tolerance	Must support minimum $\pm 30\%$ input voltage tolerance		
34	Power Consumption	Not to exceed 12W		
35	Smart Phone	Must support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC		
36	Lightning Protection	Must have minimum 6KV built-in lightning protection		
37	Operation Temperature / Humidity	-30 °C to 60 °C / Less than 95% RH		
38	Weather Proof Standard	IP67 rated weather proofing standards		
39	Vandal Protection	IK10 Vandal proof rating or better		
40	Open Protocol	ONVIF Profile S or higher		
41	Certifications	BIS, UL,FCC ,CE, RoHS, ONVIF & ISO certified (All mandatory and certificate must be submitted along with technical bid)		

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V) 48-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

Minimum Specification of 48-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE	
Qty.	
Make	
Model	
Part No.	

48-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

SL	Feature	Specification	Compliance (Yes/No)	Ref. page
1	Hard Disk Slot	Must have minimum 48 HDD slot		
2	Controller	Single Controller		
3	Operating System	Embedded LINUX OS		
4	Interface	Must have web interface for configuration & management		
5	Storage Capacity	Must support minimum 10TB storage per slot (Hot-Swap)		
6	Extended Storage	Must have iSCSI & 2 miniSAS port for storage expansion		
7	Data Redundancy	Must support RAID 0/1/3/4/5/6/10/50/60, JBOD, hotspare for data redundancy from day 1		
8	Logic Volume Manager	Must support iSCSI volume management, NAS(SMB/NFS/FTP) volume management		
9	Cluster Service	Must support N+M Cluster Service		
10	IP SAN Support	Minimum 2.7Gbps storage bandwidth or better		
11	Shortcut RAID Creation	Must support one click button to create RAID conveniently		
12	Auxiliary Interface	Must have 2 USB interface, 1 eSATA interface & 1 RS232 interface		
13	Network Interface	Must have 4 nos 10/100/1000 Mbps network interface & 1 no 10/100/1000Mbps Management Port		
14	Additional Feature	Must have additional feature to add minimum 512 nos IP camera directly		
15	Transfer Mode	4096Mbps Transfer & Front-end connection		
16	Bandwidth	Must have 640 Mbps Incoming/recording Bandwidth		
17	Onvif Support	ONVIF 2.4, CGI Conformant		
18	ANR support	Must support ANR feature to secure data in case of connectivity issue		
19	Redundant Power Input	Must have AC100V ~ 240V Hot-Swap Redundant Power Input		
20	Power Consumption	< 200W (With HDD)		
21	Mounting	Rack Mounted		
22	Certification	CE, FCC, RoHS (All mandatory and need to be submitted along with bid)		

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VI) 24-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

Minimum Specification of 24-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

Qty.	
Make	
Model	
Part No.	

24-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

SL	Feature	Specification	Compliance (Yes/No)
1	Hard Disk Slot	Must have minimum 24 HDD slot	
2	Controller	Single Controller	
3	Operating System	Embedded LINUX OS	
4	Interface	Must have web interface for configuration & management	
5	Storage Capacity	Must support minimum 8TB storage per slot (Hot-Swap)	
6	Extended Storage	Must have iSCSI & 2 miniSAS port for storage expansion	
7	Data Redundancy	Must support RAID 0/1/3/4/5/6/10/50/60, JBOD, hotspare for data redundancy from day 1	
8	Logic Volume Manager	Must support iSCSI volume management, NAS(SMB/NFS/FTP) volume management	
9	Cluster Service	Must support N+M Cluster Service	
10	IP SAN Support	Minimum 2.4Gbps storage bandwidth or better	
11	Shortcut RAID Creation	Must support one click button to create RAID conveniently	
12	Auxiliary Interface	Must have 2 USB interface, 1 eSATA interface & 1 RS232 interface	
13	Network Interface	Must have 4 nos 10/100/1000 Mbps network interface & 1 no 10/100/1000Mbps Management Port	
14	Additional Feature	Must have additional feature to add minimum 512 nos IP camera directly	
15	Bandwidth	Must have 1024 Mbps Incoming/recording Bandwidth	
16	Onvif Support	ONVIF 2.4, CGI Conformant	
17	ANR support	Must support ANR feature to secure data in case of connectivity issue	
18	Redundant Power Input	Must have AC100V ~ 240V Hot-Swap Redundant Power Input	
19	Power Consumption	< 200W (With HDD)	
20	Mounting	Rack Mounted	
21	Certification	CE, FCC, RoHS (All mandatory and need to be submitted along with bid)	

WEBEL TECHNOLOGY LIMITED

VII) 16-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

Minimum Specification of 16-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

Qty.	
Make	
Model	
Part No.	

16-BAY CENTRAL ENTERPRISE LEVEL VIDEO STORAGE

Sl No	Feature	Specification	Compliance (Yes/No)	Ref. page
1	Hard Disk Slot	Must have minimum 16 HDD slot		
2	Controller	Single Controller		
3	Operating System	Embedded LINUX OS		
4	Interface	Must have web interface for configuration & management		
5	Storage Capacity	Must support minimum 10TB storage per slot (Hot-Swap)		
6	Extended Storage	Must have iSCSI & miniSAS port for storage expansion		
7	Data Redundancy	Must support RAID 0/1/3/4/5/6/10/50/60, JBOD, hotspare for data redundancy from day 1		
8	Logic Volume Manager	Must support iSCSI volume management, NAS(SMB/NFS/FTP) volume management		
9	Cluster Service	Must support N+M Cluster Service		
10	Shortcut RAID Creation	Must support one click button to create RAID conveniently		
11	Auxiliary Interface	Must have 2 USB interface, 1 eSATA interface & 1 RS232 interface		
12	Network Interface	Must have 2 nos 10/100/1000 Mbps network interface		
13	Additional Feature	Must have additional feature to add minimum 512 nos IP camera directly		
14	Bandwidth	Must have 1024 Mbps Incoming/recording Bandwidth		
15	Onvif Support	ONVIF 2.4, CGI Conformant		
16	ANR support	Must support ANR feature to secure data in case of connectivity issue		
17	Redundant Power Input	Must have AC100V ~ 240V Redundant Power Input		
18	Power Consumption	< 200W (With HDD)		
19	Mounting	Rack Mounted		
20	Certification	CE, FCC, RoHS (All mandatory and need to be submitted along with bid)		

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VIII) Network Video Recorder (NVR)

Minimum Specification of Network Video Recorder (NVR) with 8 SATA

Qty.	
Make	
Model	
Part No.	

Network Video Recorder (NVR)

SL	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Main Processor	NVR should have Quad-Core or better Embedded Processor		
2	Operating System	Embedded LINUX		
3	IP Camera Input	8 channels		
4	Two-way Talk	1 Channel Input, 2 Channel Output for both way audio communication		
5	Display Interface	2 HDMI, 2 VGA or better output for viewing		
6	Display Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768		
7	Total Bandwidth	Max 640 Mbps or better total bandwidth (320 Incoming / 320 Outgoing)		
8	Display Split	1/4/2008		
9	Support multiple brands	Should Support Multi-brand network cameras		
10	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
11	Recording Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG		
12	Recording Resolution	12Mp, 8Mp, 6Mp, 5Mp, 3Mp, 1080P, 1.3Mp, 720P etc.		
13	User Interface	GUI		
14	Motion Detection	MD Zones: 396 (22×18)		
15	Video Loss	Should support Video Loss		
16	Camera Blank	Should support Camera Blank		
17	Alarm In/ out	Must have 8 Ch In and 6 Ch Out		
18	Recording Mode	Manual, Schedule, MD, Alarm, Stop		
19	Smart Phone	Must support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC		
20	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search		
21	Backup Mode	USB Device/Network/eSATA Device		
22	Hard Disk	8 SATA ports with 10TB Surveillance Grade Hard disks each		
23	External HDD	1 eSATA for storage expansion		
24	Network Ethernet	2 RJ-45 ports (10/100/1000Mbps)		
25	RAID Support	Hardware RAID 0, 1, 5, 10 or better		
26	USB	4 USB ports or better (2 USB3.0, 2 USB2.0)		

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27	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search , ONVIF 2.4, SDK, CGI		
28	Additional Interfaces	RS232: 1 port for PC & Keyboard communication, RS485: 1 port for PTZ control		
29	Smart Video Analytics	NVR should support various Video Analytics such as: ANPR ANR Tripwire Intrusion Face Detection Motion Detection Tampering Scene Change People Counting Heatmap etc		
30	Max. User Access	Should support Min. 120 users		
31	Power Supply	AC 100V~240V, 50/60 Hz		
32	Power Consumption	<18W (without HDD)		
33	Working Environment	-10°C~+55°C / 10%~90%RH		
34	Open Protocol	Should support ONVIF protocol for integration with 3rd party devices		
35	Certification	UL, FCC, CE, RoHS, ISO certified		
36	Installation	Rack Mounted		
37	Additional Feature	Smart Fan which can automatically adjust speed according to temperature & need		
38	BIS	BIS, UL, CE, FCC, RoHS, ISO certification (All mandatory)		

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2. Network and Switching Equipment

OEM Eligibility Criteria

SL	Eligibility Criteria	Compliance with Document
1	The active networking OEM should be present in the Gartner's Magic Quadrant for Wired and Wireless Infrastructure for the last 5 consecutive years.	
2	The Active networking OEM for each products or Technology quoted should be in the business of that product or solution or Technology for last 25 years as on the date of release of the RFP.	
3	The Active networking OEM should have a local own service center within the state of installation and should have technical assistance center.	
4	The Active networking OEM for the all active network items should have a registered office in India and should directly present for last 25 years in India, from date of RFP publication.	
5	The Active networking OEM for all active components should give a declaration that products or technology quoted are neither end of sale nor end of life as on the date of installation and commissioning and are not end of support till the successful completion of the project.	
6	The active networking OEM should have valid ISO 9001 & ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
7	The active networking OEM should have Average Annual Financial Turnover not less than 500 Crores for their networking equipment business in India for the last five financial years.	

(B) Layer 2 PoE Access Switch (16-Port)

Minimum Specification of Network Video Recorder (NVR) with 8 SATA

Qty.	
Make	
Model	
Part No.	

Layer 2 PoE Access Switch (16-Port)

SL.	Specification	Compliance (Yes/No)	Ref. Page
1	Layer 2 Switch having 16 X 10/100/1000BaseT PoE Ports & 2 X 1G SFP Slots		
2	Switching Capacity should be minimum 36Gbps		
3	Packet Forwarding Rate should be minimum 26Mpps for 64-byte packet size		
4	The switch should have non-blocking architecture		
5	The switch should support both IEEE 802.3af (PoE) & IEEE 802.3at (PoE+)		
6	The switch should support minimum PoE power budget of 150 watt.		
7	The switch should have minimum 6KV surge protection		
8	The switch should support auto MDI/MDI-X adjustment on all		

WEBEL TECHNOLOGY LIMITED

	ports		
9	The switch should support support Power over ethernet up to 250m @ 10Mbps from Port 1-8 with Extended Mode enabled		
10	Switch should have control for VLAN,EXTENDED Range ,POE & QoS mode		
11	The switch should have energy saving technology		
12	All type of switches should be from same make.		
13	The switch should support operating temperature 0 °C to 40 °C		
14	The switch should support operating humidity 0% to 90%		

(C) Layer 2 PoE Access Switch (8-Port)

Minimum Specification of quoted Layer 2 PoE Access Switch (8-Port)

Qty.	
Make	
Model	
Part No.	

Layer 2 PoE Access Switch (8-Port)

SL	DETAILS	COMPLIANCE (Yes/No)	Ref. Page
1	Layer 2 Managed Switch having 8 X 10/100/1000BaseT PoE Ports & 2 X 1G SFP Slots		
2	Switching Capacity should be minimum 20Gbps		
3	Packet Forwarding Rate should be minimum 14.88 Mpps for 64-byte packet size		
4	The switch should have non-blocking architecture		
5	The switch should support both IEEE 802.3af (PoE) & IEEE 802.3at (PoE+)		
6	The switch should support minimum PoE power budget of 120 Watt.		
7	The switch should have minimum 6KV surge protection		
8	The switch should support auto MDI/MDI-X adjustment on all ports		
9	The switch should support support Power over ethernet up to 250m @ 10Mbps from Port 1-8 with Extended Mode enabled		
10	Switch should have control for VLAN, EXTENDED Range , POE & QoS mode		
11	The switch should have energy saving technology & Fan less design.		
12	The switch should support operating temperature 0 °C to 40 °C & storage temperature -10 °C to 70 °C		
13	The switch should support operating humidity 10% to 90% & Storage humidity 5% to 90%		

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3. WORK STATION

Eligibility Criteria for Work Station OEM:

SL	OEM Eligibility Criteria	Compliance with Document
1	OEM should have presence in India for more than 10 years	
2	OEM should be under top 3 in last quarters in end-computing as per IDC report	
3	OEM should have its own legal Office in West Bengal	
4	OEM product should qualify Make in India as per 2017/ 2020 DIPP guidelines. (Documentary evidence and certificates must be enclosed)	
5	OEM should have positive net worth for 5 last financial years.	

Work Station Specification

Minimum Specification of Quoted Work Station	
Qty.	
Make	
Model	
Part No.	

Work Station Specification

SL	Feature	Specification	Compliance (Yes/No)	Ref. page
1	Processor	Intel core i7 10700 or higher with remote manageability enabled		
2	Chipset	Intel Q 470 or higher		
3	Hard Drive	1TB SSD		
4	Memory	16 GB DDR4 2933 RAM expandable to 64 GB or higher		
5	GPU	Min. 4GB graphics card		
6	I/O	Min. 3 PCI/ PCIe slot, 2x M.2 slot, Min. 8 USB Port, one RJ 45 port, 1 Display Port & 1 HDMI and Audio line in and out both port, Integrated speaker in CPU, Same OEM Make USB Keyboard & Mouse		
7	Form Factor	MT		
8	SMPS	Power supply Min. 300W with active PFC minimum 90% efficiency		
9	Operating System	OS- with Genuine Windows 10 Home		
10	Security	Security for Inbuilt Pre-Boot BIOS Diagnostics, TPM		

WEBEL TECHNOLOGY LIMITED

11	Certification	ISO 9001, ISO 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT Certified, TCO, FCC, ROHS and UL certificate.		
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4. Display Panel Unit (32")

Eligibility Criteria for Display OEM:

SL	Eligibility Criteria	Compliance with Document
1	OEM should have presence in India for more than 10 years	
2	The manufacturer should have minimum annual turnover of Rupees 500 Crores (each year) during last three financial years.	
3	OEM should have its legal Office in West Bengal	
4	OEM should have complete direct service set-up in West Bengal with a service team of minimum 2 trained Service Manager/Engineers on OEM's payroll. They should have either Bachelor / Diploma degree	
5	OEM Should have ISO 9001:2015 & BS OHSAS 18001:2007 or ISO45001:2018 certifications.	

Minimum Specification of quoted Display Panel Unit (32")

Qty.	
Make	
Model	
Part No.	

Display Panel Unit (32") - Specification

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Size:	32" or higher		
2	Panel Technology:	IPS		
3	Resolution:	1920x1080		
4	Brightness:	400nits		
5	Contrast Ratio:	1100:1 or more		
6	Color Depth:	1.07 Billion colours		
7	Operation Hours:	24x7 Hrs.		
8	Orientation:	Portrait / Landscape		
9	Connectivity:	Inputs: HDMI (3, HDCP 2.2), USB 2.0 (Type A),		
10	Connectivity:	Outputs: Audio Out, Built-in Speaker: 2x10w		

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11	Special Features:	Built-in Wi-Fi, Temperature Sensor, Auto Brightness Sensor, Local Key Operation, webOS 6.0, Embedded CMS (Local Contents Scheduling, Group Manager), USB Plug & Play, Fail Over, Background Image (Booting Logo Image, No Signal Image), Screen Share, Play via URL, Setting Data Cloning, SNMP Support, Smart Energy Saving, Wake on LAN, Beacon,		
12	Certification:	CB, FCC Class "A"/CE		
13	Typical Power Consumption:	55W or less		

5. UPS (Online)

Eligibility Criteria for UPS OEM:

SL	Eligibility Criteria	Compliance with Document
1	The UPS OEM Should be an Indian Manufacturer with direct presence in India for a minimum period of 10 years.	
2	The UPS manufacturer should be in top 5 of latest frost & Sullivan report.	
3	The UPS OEM should have a single installation base of 1/23 KVA rating UPS System of min 3000 unit with centralize Monitoring software in India.	
4	OEM shall have ISO 9001, 27001 and 14001 certified manufacturing facility in India.	
5	The OEM shall have NABAL approved lab certification	

Minimum Specification of quoted 2 KVA Online UPS

Qty.	
Make	
Model	
Part No.	

2 KVA Online UPS Specification

Sl.	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Capacity	2KVA/1.6 kW.		
2	Make	Bidder has to specify		
3	Model	Bidder has to specify		
4	Design	True online double conversion design		
Input Characteristics.				
5	Nominal Input Voltage	230Vrms		
6	Nominal Input Frequency	50Hz.		

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7	Input Power Factor	0.99		
8	Type of Rectifier	IGBT Based PWM Rectifier		
9	Input Voltage Range	110 Vac to 280 Vac.		
10	Voltage Detection Tolerance ±3% Calibration	±3% Calibration		
11	Input Frequency Range	40-70Hz		
12	Inrush Limitation	7*IRMS_Nom		
13	Current Protection	With Fuse.		
Battery Parameters.				
14	Charging Method	Constant voltage constant current (CVCC)		
15	Type of Batteries	Inbuilt Sealed Maintenance Free		
16	Charge Voltage Accuracy	±1%		
Output Parameters.				
17	Load power factor	0.8		
18	Nominal Output voltage	208/220/230/240VAC Settable		
19	Output Frequency	Frequency Range (Batt. Mode): 50 Hz ± 0.1 Hz ; Frequency Range (Synchronized Range): 46Hz ~ 54 Hz @ 50Hz system		
20	Output Waveform	Pure sine wave		
21	Total Harmonic distortion (THD)	Less than 3% for Linear Load and Less than 6% for RCD Load		
22	Inverter	IGBT based PWM with Instantaneous Sine wave control		
23	Power Rating	2kVA/1.8kW		
24	Dynamic response	IEC62040-3 Classification 1		
25	Crest factor	3:1		
26	Duty.	Continuous duty		
27	Overload Capacity	AC mode:105%~110%: 10min、110%~130%: 1min、 >130% : 1sec ;		
28	Frequency synchronization Band for Static. Bypass	46 - 54Hz		
29	Transfer (Inverter to Bypass)	0 ms		
30	Retransfer (Bypass to Inverter)	< 1 ms		
31	Automatic Bypass	Inbuilt		
32	Overall efficiency (AC to AC)	above 90 %		
Miscellaneous Function				
33	Intelligent Fans Speed Control	Yes.		
34	Auto Restart Function	Yes.		
Physical and Environmental Characteristics.				
35	Acoustic Noise Level	Less than 58dB @ 1 Meter		
36	Ambient Temperature	0 - 50 Deg C		
37	Storage Temperature	-15°C~60°C		
38	Humidity	<95 % and non-condensing		
39	Altitude	<1000m		
40	Enclosure Protection Grade	IP 20		

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41	Cooling	Forced Air		
Metering (Digital display)				
42	Input voltage, Battery voltage, Output voltage, Output current, Output frequency, Input Frequency, Heat sink temperature	Advanced LCD based Display System, able to monitor Input Voltage/Battery Voltage/Output Voltage/Output Frequency/Input Frequency/Ambient Temperature.		
43	input fail	Inbuilt and accessible on LCD Display.		
44	Battery Low			
45	Transfer to bypass and system fault			
46	LED Indications			
47	Protection	Overload/Short Ckt/Battery Deep Discharge/Low Battery/Reverse Battery/Inverter Current Limitation/Over Temperature/Output Overvoltage.		
48	Optional features	RS 232 communication port for interfacing, Remote monitoring		

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Minimum Specification of quoted 3 KVA Online UPS

Qty.	
Make	
Model	
Part No.	

3 KVA Online UPS Specifications

Sl.	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Capacity	3KVA/ 2.4 kW.		
2	Design	True online double conversion design		
Input Characteristics.				
3	Nominal Input Voltage	230Vrms		
4	Nominal Input Frequency	50Hz.		
5	Input Power Factor	0.99		
6	Type of Rectifier	IGBT Based PWM Rectifier		
7	Input Voltage Range	110 Vac to 280 Vac.		
8	Voltage Detection Tolerance ±3% Calibration	±3% Calibration		
9	Input Frequency Range	40-70Hz		
10	Inrush Limitation	7*IRMS_Nom		
11	Current Protection	With Fuse.		
Battery Parameters.				
12	Charging Method	Constant voltage constant current (CVCC)		
13	Charging current Capacity	Settable 1/2/4/6Amp		
14	battery backup (3024 VAH MINIMUM)	60 min		
15	Type of Batteries	SMF & Lithhium Ion Battery compatible		
16	Maximum Battery Leakage Current	500uA		
17	Charge Voltage Accuracy	±1%		
Output Parameters.				
18	Load power factor	0.8		
19	Nominal Output voltage	208/220/230/240VAC Settable		
20	Output Frequency	Frequency Range (Batt. Mode): 50 Hz ± 0.1 Hz ; Frequency Range (Synchronized Range): 46Hz ~ 54 Hz @ 50Hz system		
21	Output Waveform	Pure sine wave		
22	Total Harmonic distortion (THD)	Less than 3% for Linear Load and Less than 6% for RCD Load		

WEBEL TECHNOLOGY LIMITED

23	Inverter	IGBT based PWM with Instantaneous Sine wave control		
24	Power Rating	3kVA/2.4kW		
25	Dynamic response	IEC62040-3 Classification 1		
26	Crest factor	3:01		
27	Duty.	Continuous duty		
28	Overload Capacity	AC mode:105%~110%: 10min、110%~130%: 1min、 >130% : 1sec ;		
29	Frequency synchronization Band for Static. Bypass	46 - 54Hz		
30	Transfer (Inverter to Bypass)	0 ms		
31	Retransfer (Bypass to Inverter)	< 1 ms		
32	Automatic Bypass	Inbuilt		
33	Overall efficiency (AC to AC)	above 90 %		
Miscellaneous Function				
34	Intelligent Fans Speed Control	Yes.		
35	Auto Restart Function	Yes.		
Physical and Environmental Characteristics.				
36	Acoustic Noise Level	Less than 58dB @ 1 Meter		
37	Ambient Temperature	0 - 50 Deg C		
38	Storage Temperature	-15°C~60°C		
39	Humidity	<95 % and non-condensing		
40	Altitude	<1000m		
41	Enclosure Protection Grade	IP 20		
42	Cooling	Forced Air		
Metering (Digital display)				
43	Input voltage	Advanced LCD based Display System, able to monitor Input Voltage/Battery Voltage/Output Voltage/Output Frequency/Input Frequency/Ambient Temperature.		
44	Battery voltage			
45	Output voltage			
46	Output current			
47	Output frequency			
48	Input Frequency			
49	Heat sink temperature			
50	Fault indicated on Digital Display Alarms	LED indication display		
51	input fail	Inbuilt and accessible on LCD Display.		
52	Battery Low			
53	Transfer to bypass and system fault			
54	LED Indications			

WEBEL TECHNOLOGY LIMITED

55	Protection	Overload/Short Ckt/Battery Deep Discharge/Low Battery/Reverse Battery/Inverter Current Limitation/Over Temperature/Output Overvoltage.		
56	Optional features	RS 232 communication port for interfacing, Remote monitoring		

6. Passive Components:

Eligibility Criteria for Passive CAT 6 UTP Cable OEM

SL	Eligibility Criteria	Compliance with Document
1	Passive OEM offered must be in steady business in India for more than at-least 15 years. Incorporation certificate to be submitted.	
2	OEM should be a member of Telecommunications Industry Association (TIA) committee. Membership shall be available for verification at www.tiaonline.org/about/member-list	
3	OEM shall have RCDD certified technical manpower in India, along with local technical support manpower in West Bengal. Declaration need to give in OEM Letter head.	
4	OEM shall have ISO 9001:2015 and 14001 certified manufacturing facility in India.	
5	OEM Should be ISO : 9001 and ISO : 14001 certified for design, Development for LAN & WAN product.	

CAT 6 UTP Cable Specifications

Minimum Specification of quoted CAT 6 UTP Cable	
Qty.	
Make	
Model	
Part No.	

SL	Specification	Compliance (Yes/No)	Ref. page
1	Unshielded Twisted Pair, Category 6, ANSI/TIA 568.2-D & ISO/IEC 11801 2 nd edition		
2	Conductors is 23 AWG Solid bare copper		
3	Insulation- Polyolefin		
4	<ul style="list-style-type: none"> Jacket Should be LSZH jacket complying to: Fire rating IEC 60332-3-22 Acid gas IEC 60754-2 Smoke density IEC 61034-2 (Test reports to be submitted with bid for all above tests.) 		

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5	Pair Separator should be Cross-member (x) fluted Spline.		
6	Intertek 4 connector channel certified for upto 600Mhz, for 100mtr channel. Transmission tested for Zero BER performance to the requirements of IEEE 802.3 for 1000BASE-T protocol. Shall be certified by Intertek for 4 connector channel compliance as per ANSI/TIA 568-C.2 for CAT6, under short channel (<= 15m) configuration. (Intertek lab Reports to be submitted with bid.)		
7	Frequency tested up to Performance spec upto 600 MHz to be mentioned with datasheet.		
8	Application support Shall comply to the requirements of IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable		
9	Packing - Box of 305 meters		
10	Cable Outer Diameter - 5.9mm +/- 0.2 mm		
11	Delay Skew - 45ns @ 100Mhz		
12	Bend Radius should be 4 * Cable Diameter		
13	Impedance - 100 Ohms + / - 15 ohms, 1 to 600 MHz.		
14	Mutual Capacitance Should be 5.6 NF MAX /100 Mtr.		
15	dc Resistance, maximum 7.61 ohms/100 m		
16	Safety Voltage Rating 300 V		
17	Shall be ROHS Compliant		
18	All factory test reports for the cable shall be available online at OEM website using unique print string on Cable packaging.		
19	Cable must be ETL verified for ANSI/TIA 568-C.2 and ISO/IEC 11801. Report to be submitted.		
23	UL temperature rating shall be upto 75 Deg C.		

6 U Wall Mount Rack Specifications

8.4 Minimum Specification of quoted 6 U Wall Mount Rack	
Qty.	
Make	
Model	
Part No.	

6 U Rack specification

SL	Specification	Compliance (Yes/No)	Ref. Page
1	6U, 19" 550mm Width, 600mm Depth, Wall Mount Indoor Networking Rack		
2	Must confirm to DIN 41494 or equivalent standard		
3	Must be welded/CKD construction with steel frame		
4	Lockable tough ended glass front door		
5	19" mounting angle made of formed steel		
6	Powdered coated standard finish		

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7	Top & Bottom welded cover with vented & cable entry exit cut outs		
8	2 pair of 19" mounting rails		
9	1U Cable Manager		
10	Roof Mounted Fan Unit		
11	230V AC, 6 way, 5 Amp Power Distribution Unit		
12	Mounting Hardware		

9U FLOOR/WALL MOUNT INDOOR RACK

8.5 Minimum Specification of 9 U Floor/Wall Mount Rack

Qty.	
Make	
Model	
Part No.	

9 U Rack specification

SL	Specification	Compliance (Yes/No)	Ref. Page
1	9U, 19" 600mm Width, 600mm Depth, Wall Mount Networking Enclosure		
2	Must confirm to DIN 41494 or equivalent standard		
3	Must be welded construction with steel frame		
4	Lockable tough ended glass front door		
5	19" mounting angle made of formed steel		
6	Powdered coated standard finish		
7	Top & Bottom welded cover with vented & cable entry exit cut outs		
8	2 pair of 19" mounting rails		
9	1U Cable Manager		
10	Roof Mounted Fan Unit		
11	230V AC, 6-way, 5 Amp Power Distribution Unit		
12	Mounting Hardware		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

SECTION – P

MANUFACTURER'S AUTHORIZATION FORM

Date:

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

Ref: Tender No.: WTL/HHA/CCTV/21-22/021 dated 11.10.2021.

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 5% spare product will be kept available with the SI for 3 years.

Name _____ In the capacity of _____

Signed _____

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

Dated on _____ day of _____ 2021

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

Tender No. WTL/HHA/CCTV/21-22/021

WEBEL TECHNOLOGY LIMITED

SECTION - R

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) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal.

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/HHA/CCTV/21-22/021 dated 11.10.2021. Supply, Installation, Testing, Commissioning (SITC) and Maintenance of CCTV surveillance systems with 12 months storage facility for West Bengal Police and Kolkata Police, Under Home & Hill Affairs Department, Govt. of West Bengal 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 of2021

WEBEL TECHNOLOGY LIMITED

SECTION - S

DECLARATION OF ELIGIBILITY CRITERIA

(Tender No. WTL/HHA/CCTV/21-22/021)

Sl. No.	Criteria	Document Submitted	Reference Document
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.	Yes/No	
2	The bidder must be a System Integrator in IT/ ITeS/ ICT sector. Relevant document to be submitted.	Yes/No	
3	The bidder should have been operating for the last 15 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 to be submitted.	Yes/No	
4	The bidder must have their Registered/ Branch office in West Bengal. Valid trade license and local GST Registration Certificate are to be submitted.	Yes/No	
5	The bidder should have valid GST Registration Certificate & PAN. Bidder shall have to submit photocopy of the documents.	Yes/No	
6	Bidder should have own local call center number. OEM Call Centre number will not be treated as bidder's call centre number. Call Center details for bidder with number & detailed to be submitted. Bidder shall have to submit the Complain/Call escalation matrix in their own letterhead with undertaking.	Yes/No	
7	<p>The bidder shall have executed "Similar Nature" of single order an amount not less than Rs.30.00 Crore in last 05 (Five) financial years (considering FY – 2015-2016, 2016-2017, 2017-18, 2018-19, 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.</p> <p style="text-align: center;">OR</p> <p>The bidder shall have executed "Similar Nature" of two orders in total amount not less than Rs.32.00 Crore in last 10 (Ten) financial years (considering FY period from 2010-2011 TO 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.</p> <p style="text-align: center;">OR</p> <p>The bidder shall have executed "Similar Nature" of two orders in total amount not less than Rs.36.00 Crore in last 10 (Ten) financial years (considering FY period from 2010-2011 TO 2019-20) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.</p>	Yes/No	

WEBEL TECHNOLOGY LIMITED

8	The bidder should have a minimum annual turnover of not less than Rs. 45.00 Crore in the last financial year (2019-20)). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.	Yes/No	
9	The bidder should have a minimum total annual turnover of not less than Rs. 110.00 Crore in the last three financial years (considering FY -2017-18, 2018-19, 2019-20)). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.	Yes/No	
10	The bidder must have completed Supply, Installation, Testing and Commissioning of any CCTV Surveillance project, worth all-inclusive cumulative amount of Rs. 5 crores only, in any year during last five financial years for any Govt. Departments or Public Sector Undertakings.		
11	The bidder shall have Quality Certificate (ISO 9001:2015). The bidder has to ensure that the certificate remains valid during the life cycle of the project. Copy of Certificate to be submitted.	Yes/No	
12	The bidder must submit the Manufacturers Authentication Form (MAF) for Camera, Storage, Computer, Display, Networking items (Active & Passive) and UPS as per prescribed format enclosed (Section - P), along with Technical Compliance statements. Without these documents the offer will be treated as non-responsive and summarily rejected.	Yes/No	
13	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.	Yes/No	
14	The bidder shall submit Bid Form (Section – G) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.	Yes/No	
15	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.	Yes/No	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of Company: _____

WEBEL TECHNOLOGY LIMITED

SECTION – T

FORMAT FOR LIST OF CLIENTS OF SIMILAR ORDERS

(Tender No. WTL/HHA/CCTV/21-22/021)

[illegible]

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____