

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

NOTICE INVITING e-TENDER

Online Tender documents are invited for implementation of "**Supply, Installation, Testing, Commissioning (SITC) with three Years Warranty of IP based CCTV Surveillance system for Jadavpur University Main Campus, Salt Lake Campus and Hostel Gates.**

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

1.	Tender No. & Date	WTL/JU/CCTV/23-24/024 dated 01.09.2023
2.	Tender Version No.	1.0
3.	Brief description of Job	Supply, Installation, Testing, Commissioning (SITC) with three Years Warranty of IP based CCTV Surveillance system for Jadavpur University Main Campus, Salt Lake Campus and Hostel Gates.
4.	Tender Fee	Rs. 5000.00 (Rupees Five Thousand only). The amount to be transferred online through e-tender portal.
5.	Earnest Money Deposit	Rs. 80,000.00 (Rupees Eighty Thousand only). The amount to be transferred online through e-tender portal.
6.	Date of Downloading	01.09.2023
7.	Pre-Bid Meeting date & time	07.09.2023 at 12.00 Hrs. (On-Line Meeting) <ul style="list-style-type: none">Pre-Bid meeting will be organizing online platform only. Only queries as per format (Section - N) reaching WTL by 05.09.2023 at 15.00 Hrs. will be taken for decision. Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.Only queries as per format (Section - N) reaching WTL by 05.09.2023 at 15.00 Hrs. will be taken for decision.Queries will be sent to Purchase Department (purchase@wtl.co.in).
8.	Bid Submission Start date & time	09.01.2023 at 12.00 Hrs.
9.	Last date & time of EMD & Tender Fee submission	Before Uploading of Tender.
10.	Last date & time of Bid Submission	13.09.2023 at 13.00 Hrs.
11.	Date & time of Technical Bid Opening	15.09.2023 at 13.00 Hrs.
12.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
13.	WTL Contact Number	033-23673403-06

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CONTENTS OF THE TENDER DOCUMENT

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- SECTION – D INSTRUCTIONS TO BIDDER
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SECTION – A

BACKGROUND & OBJECTIVE OF THE PROJECT

Jadavpur University is committed to providing a safe and secure environment for its students, staff, and visitors. In line with this commitment, the university has undertaken the initiative to enhance its security infrastructure by implementing a comprehensive Closed-Circuit Television (CCTV) surveillance system across its campus premises. This CCTV project aims to bolster campus security, prevent criminal activities, and ensure the safety and well-being of all individuals within the university community.

The implementation of a state-of-the-art CCTV surveillance system is a proactive measure to address the evolving security challenges faced by educational institutions today. The primary objectives of this project include:

- **Enhanced Security:** The presence of CCTV cameras at strategic locations will act as a deterrent to potential criminal activities and unauthorized access.
- **Prevention and Investigation:** The system will aid in the prevention of incidents such as theft, vandalism, and unauthorized entry. Additionally, it will provide valuable visual evidence for investigations and incident resolution.
- **Emergency Response:** Real-time monitoring of critical areas will enable the university's security personnel to respond swiftly to emergencies and incidents, ensuring a timely and effective response.
- **Safety:** The project contributes to creating a secure environment that encourages a conducive atmosphere for learning, teaching, and research

Scope: The CCTV surveillance system will be deployed across key areas of the university campus, including but not limited to:

- University Entrances and exits Gates
- Hostel Entrances and exits Gates

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SECTION – B

SCOPE OF WORK & BILL OF MATERIAL

The following section provides summarized details of the project detailed mentioned

1.1 PROJECT SCOPE

"Supply, Installation, Testing, Commissioning (SITC) with Three Years Products Installation Warranty of IP based CCTV Surveillance system

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

The System integrator needs to conduct a periodic preventive Checking of the entire system and prepare a Monthly report. A Quarterly periodic maintenance may be organized and report to be submitted to Jadavpur University.

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

- 1) Identify the hardware equipment, network components (passive and active) and solutions implemented, for make, model and Integration.
- 2) The study also aimed to identify the complexity for smooth Integration, support requirement for next 3 years, and to identify ways and means to reduce complexity for both the University and the implementation partner WTL.

The scope of the project shall include:

- **Final Inspection of Sites** - Project Management & Installation team must visit all the proposed CCTV Locations for details final site inspection and understanding about present site status location wise, pole installation, camera installation, power availability, Enclosure installation.
- **Supply and Material Delivery** – System Integrator shall prepare and supply the materials as per the BOQ for CCTV, Network equipment, Storage and all items and accessories required at University Campuses. The items may be delivered in multiple phases.

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- ❖ **Phase 1** – Delivery of all network cables, accessories for power, all passive components as per the BOQ within 04 days.
- ❖ **Phase 2** – Delivery of all active components and hardware, software items, such as CCTV, Active network components, storage system and display unit within 05 days.
- **Installation scope**
 - ❖ **Pole & Enclosure Installation** - As per the requirement of each site condition, Pole & Enclosure will be installed simultaneously.
 - ❖ **Location Wise Cable Laying** – SI shall start to lay the cable from Cameras to Enclosure as per the requirement of each site
 - ❖ **Power Source Termination** – University will be provided 24x7 (AC230V) Power source at each Camera locations and Control Room.
 - ❖ **Network Backbone at Each Camera & Control Room locations** – University will provide 3rd Part Network Connectivity.
 - ❖ **Installation of Control Room Setup** - Installation & Commission work will be done by SI under this phase for all storage & related components.
 - ❖ **IP address allotment and necessary configuration** – Network Planning & IP Configuration work is totally under 3rd Party Network service provider. They will submit all the details to SI through WTL.
- **Testing and Commissioning Scope**
 - ❖ **Link Testing** – SI shall perform the link testing for each & every location point from Control Rooms.
 - ❖ **Installation & Commission of Enclosure & Equipment** – SI shall install & Commission Junction Box Equipment, such as, UPS, Switch, MCB etc.
 - ❖ **Control Room Setup** – SI shall install & configure the Client Monitoring Work Station, Display & Client Software with necessary configuration.
 - ❖ **Camera Installation** - SI shall install the cameras after completion installation work at each location point as soon as there is availability of resources. (Electricity, 3rd Party Network Backbone etc.)
 - ❖ **Cameras Configuration & Adjustment** – SI shall Install & Configure the Cameras as well as final adjustment as per University requirement.
 - ❖ **Final Acceptance Testing & Adjustment** – Joint acceptance testing, demonstration and necessary adjustment based on the feedback, inputs received from customer, prior to handover of system.

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

Camera locations

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

Zone	Department	ANPR Camera	Camera Bullet	Dome Camera
Main Campus	GATE-1	0	2	0
	GATE-2	0	2	0
	GATE-3	1	2	0
	GATE-4	1	2	0
	GATE-5	0	2	0
HOSTEL	BOYS HOSTEL Gate	1	2	0
Salt Lake Campus	GIRLS HOSTEL'S Gate	0	3	0
	Main Gate	1	2	0
	CAB GATE	1	2	0
	BOYS HOSTEL's GATE	0	2	0
Control Rooms				3
	Total	5	21	3

1.2 UN PRICED BILL OF MATERIALS (BOM) -

Bill of Quantity			
Sl.	Particulars	Unit	Qty
1	8P POE Switch with 2 Nos of SFP Port	Nos	13
2	1 KVA Line Interactive UPS with 30 min backup	Nos	12
3	4MP Fixed Dome camera	Nos	3
4	4MP VF Bullet Camera	Nos	21
5	4MP ANPR Camera	Nos	5

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6	Camera protection Cage	Nos	26
7	Water Proof Box	Nos	26
8	43 inch Monitor	Nos	3
9	32 channel NVR with 4 nos of SATA	Nos	3
10	Wireless Mouse	Nos	3
11	10M HDMI Cable	Nos	3
12	8TB HDD	Nos	11
13	9U Loaded RACK with all accessories	Nos	11
14	6 Port Loaded SM SC Type LIU	Nos	17
15	18 Feet Pole for camera fixing	Nos	7
16	GI Clamp for camera fixing	Nos	11
17	6 Core SM armoured outdoor OFC Cable	Mtrs	2000
18	3M SC-LC Type SM fiber Patch chord	Nos	18
19	3M LC-LC Type SM fiber Patch chord	Nos	3
20	Cat6 UTP Armored Cable	Box	3
21	RJ45 Connector waterproof	Nos	62
22	20 MM GI PIPE With accessories	Mtrs	207
23	25 MM PVC PIPE	Mtrs	325
24	32 MM HDPE Pipe with accessories	Mtrs	1765
25	UTP CAT6 Armored Cable Laying	Mtrs	915
26	Fiber laying	Mtrs	2000
27	Fiber Splicing	Nos	108
28	Soft soil digging & refilling	Mtrs	1435
29	Hard soil digging & refilling	Mtrs	171
30	Pole Installation	Nos	7
31	Camera Configuration & Fixing with Accessories	Nos	29
32	LIU Installation	Nos	17
33	Switch Configuration & Fixing with Accessories	Nos	13
34	NVR Configuration	Nos	3
35	Rack Fixing & Dressing	Nos	11

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

- Propose the make, model and detailed specification, meeting the minimum requirements, for each type of equipment for each item in the BoQ.
- SI must indicate a firm price for each item quoted, inclusive of GST rates prevailing. SI must provide prices for all items for type of equipment listed in the BOQ.

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- OEMs must authorize the SI for bidding the project, with MAF (enclosed format), for the purpose of supply, installation and support for each type of equipment for Camera, Server, Network (Active/Passive), Servers, Work Stations, UPS, Displays.
- The OEM/SI may be penalized/blacklisted, in case the supply or installation, delivery of support services is not as per the requirements. Integration of all CCTV components supplied existing system with the New installation is a pre-requisite and any deviation to the requirement shall lead to penalty/black-listing of the SI/OEMs.
- All items quoted shall be provided with onsite warranty, and OEMs/Authorized partners must adhere to the support and maintenance process and SLAs, specified in this section.
- The scope of work for the supply and maintenance of the items to be supplied under the scope of this contract shall be applicable to OEMs and authorized partners for implementation of the project.

1.3 REPAIR CENTER

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

1.4 SERVICE & SUPPORT INFRASTRUCTURE SETUP IN KOLKATA.

The successful bidder (contractor) shall have the required services and support setup, with qualified manpower and adequate spares to ensure delivery of the support services as per the SLA required, in Jadavpur University. 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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SECTION – C

MINIMUM ELIGIBILITY CRITERIA

A) To Pre-qualify all the CCTV OEM's Equipment's should satisfy the Eligibility Criteria mentioned below. Relevant documents have to be submitted and without these documents bid will be disqualified.

- 1 All Quoted Systems and components must comply with CE, FCC/ UL/ BIS certifications.
- 2 All the CCTV components should be from reputed Global OEM being listed among TOP 5 vendors globally as per latest IHS report.
- 3 In case the OEM is not participating directly, bidder should be an authorized reseller or channel partner of the OEM. An authorization letter from the OEM need to be submitted in original.
- 4 OEM should have own online-dedicated CCTV support center available during working hours and a fully equipped repair and maintenance office in India.
- 5 CCTV OEM should have direct presence in India since last 5 Years (not as joint venture, partnership firms or through any other association). Only 100% Subsidiary will be consider for direct presence. Documentary evidence such as copy of ROC to be submitted.
- 6 OEM should have its own service center (not through joint venture, partnership firms or through any other association). Only 100% Subsidiary will be consider for direct presence.
- 7 Quoted OEM should be full time member of ONVIF and same will cross check online in ONVIF website.
- 8 The OEM should have CMMI certification of Level 5. Certificate should be attached.
- 9 OEM Should have ISO – 9001, 14001, 27001 Certification. Certificate should be attached.

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- 10 OEM need to confirm that the equipment, like Cameras etc., shall not be installed with standards like - GB28181, GB/T28181-2011, GB/T 28181-2011, GBT 28181- 2011, GBT28181- 2011, GB/T28181-2016, etc., protocols/standards and there shall be no option in the camera web page/settings to activate or deactivate such protocols/standards any of their version(s) or any such protocol which allow certain organizations to bypass all security parameters and look into the devices directly. Declaration on OEM letter head needs to this effect to be submitted along with technical documents
- 11 MAC address of camera should be registered in the name of OEM supplying the cameras.
- 12 OEM should not be blacklisted or barred by any Ministry of Government of India or globally or any of the Government / PSUs or any other government department at the time of bidding. The OEM should not have any common directors who are also on the board of blacklisted companies.
- 13 The Supplied OEM should be True H.265. Necessary HEVC certificate needs to be submitted.
- 14 The camera and NVR/ Server is to be from the same brand to provide seamless integration.

Note: Failing to comply with any of these terms and condition will lead to rejection of the offer

B) Pre-qualify Passive & Active (Network) OEM's Equipment should satisfy the Eligibility Criteria mentioned below. Relevant documents have to be submitted and without these documents bid will be disqualified.

- 1 OEM Should be registered in INDIA.
- 2 All LAN cable and it's Components (Copper & Fiber) should be from single OEM.
- 3 CAT6 Outdoor Cable & Outdoor RJ45 Connector (Waterproof) should from Same OEM
- 4 Data Sheets of all proposed products should be available on the OEM public website. The data sheets provided on the OEM public website and submitted data sheets should be the same.

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- 5 The Passive OEM products when installed should carry and provide 30 years of end to end channel performance warranty.
- 6 The product quoted for cabling should be ROHS complied (ROHS logo to be in the data sheet).
- 7 The Cabling product quoted should be in accordance latest global standard to EIA/TIA, IEEE, ISO/IEC and should be mentioned the data sheet.
- 8 All Product should when delivered to be submitted with FTC (Factory Test Certificates).
- 9 Given Specifications are Minimum Criteria and OEM/Contractor may suggest products which are at least meeting or exceeding the product specifications.
- 10 The bidder is required to provide switches and their corresponding transceiver modules from the same OEM, with a limited lifetime warranty.

Note: Failing to comply with any of these terms and condition will lead to rejection of the offer

- C) Pre-qualify all the UPS OEM's should satisfy the Eligibility Criteria mentioned below. Relevant documents have to be submitted and without these documents bid will be disqualified.**

UPS OEM should have at least own 10 Service Centers (Where Spare & Parts stock available and UPS will repair instant) and own payroll 40 Service engineers in West Bengal for Service support

1. UPS OEM should have 400 CR turnover consecutive last 3 financial Years
2. UPS OEM should have own Factory premises in India
3. UPS OEM should have toll free number facilities for all type service call logging support.

D) Others General Criteria:

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

E) 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 CCTV Surveillance sector. Relevant document to be submitted.
3. The bidder should have been operating for the last 5 years in India. Certificate of Incorporation and/ or Certificate of Commencement of Business issued by the Registrar of Companies/ Partnership Registration/ sole proprietorship registration under the Shops & Establishments Act / Trade License to be submitted.
4. The bidder must have their Registered/ Branch office in West Bengal (Preferably in Kolkata). Valid trade license and local GST Registration Certificate are to be submitted.
5. The bidder should have valid GST Registration Certificate & PAN Card. Bidder shall have to submit photocopy of the documents.
6. The bidder shall have an order of "Similar Nature" of single order an amount not less than Rs.80 Lac in last 03 (Three) financial years (considering FY 2019-20, 2020-21 & 2021-22) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.
7. The bidder should have a minimum **average annual turnover** of not less than Rs. **5 Crore** per year in the last 3 financial year (2019-20, 2020-21 & 2021-22). Bidder shall have to submit

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Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.

8. Bidder should have Positive net worth for last 03 (Three) financial years (From FY 2019-20, 2020-21 & 2021-22).
9. The bidder must submit the Manufacturers Authentication Form (MAF) for All type of Cameras, Surveillance Management Server (VMS), Network Active & Passive components, all type of UPS, Display as per prescribed format enclosed (Section - N), along with Technical Compliance statements. Without these documents from the OEMs, the offer will be treated as non-responsive and summarily may be rejected.
10. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral / multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.
11. The bidder shall submit Bid Form (Section – J) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
12. The bidder is required to provide switches and other components that are compatible with the existing network infrastructure of JU. The current network operates on Aruba active components, including switches, controllers, NMS (Aruba Airwave), and transceivers. Declaration from OEM to be submitted.
13. Bidder shall submit NIT Declaration (Section - Q) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.

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SECTION – D

INSTRUCTION TO BIDDER

1. DEFINITIONS

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

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

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

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

“**Contract**” is used synonymously with Agreement.

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

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

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

“**Installation**” means installation of supplied Hardware & Software.

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

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“Go WB” means Government of West Bengal.

“JU” means Jadavpur University

“WTL” means Webel Technology Limited

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

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

“Project” Supply, Installation, Testing, Commissioning (SITC) with three Year Warranty of IP based CCTV Surveillance system for Jadavpur University Main Campus, Salt Lake Campus and Hostel Gates

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

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

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

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

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

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

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

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"**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.

2. PRE BID MEETING

Pre Bid Meeting will be held on 07.09.2023 at 12.00 hrs. (**On-Line Meeting**). Bidder can send their queries as per format (Section - R) to Purchase Department (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.

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 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

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

8. 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.

9. 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.

10. SECURITY DEPOSIT

Security deposit will be deducted as per norms of WTL from the work bill back to back basis. Which shall be refund after completion of project / expiry period.

11. TIME SCHEDULE FOR DELIVERY & INSTALLATION

Maximum 10 (Ten) days for Supply and 01 (One) month for Installation & Commissioning.

12. LOCATION FOR DELIVERY & INSTALLATION

Delivery location and installation sites will be given with PO.

11. 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 (Jadavpur University). A scheduled payment for the supply, installation and warranty only, shall be made on back to back basis, by WTL, as depicted below:

- a. 80% of Total Project Value on Material Delivery.
- b. Balance 20% of Total Project Value on Successfully Go-Live / Handover of the complete system.

12. GOVERNING LAWS

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This contract should be governed by and interpreted by Arbitration clause in accordance with Laws in force in India. The courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract. The selected vendor shall keep himself fully informed of all current national, state and municipal law and ordinances. The selected vendor shall at their own expense, obtain all necessary permits and license and pay all fees and taxes required by law. These will be selected vendor's entire obligation regarding any claim of infringement. The selected vendor hereto agrees that it shall comply with all applicable union, state and local laws, ordinances, regulations and codes in performing its obligations hereunder, including the procurement of licenses, permits certificates and payment of taxes where required. The selected vendor shall establish and maintain all proper records (particularly, but without limitation, accounting records) required by any law, code/practice of corporate policy applicable to it from time to time including records and returns as applicable under labor legislation.

13. 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.

14. BINDING CLAUSE

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

The Tender Committee reserves the right:

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

15. 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

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department and employees of the department shall be indemnified from all claims or liabilities arising there from or any expenses incurred on account thereof.

16. EQUIPMENT

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

17. JOINT VENTURE /CONSORTIUM

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

18. 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 Security deposit.

19. 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.

20. FORCE MAJEURE

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

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

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

21. WARRANTY & MAINTENANCE

- Contractor will have to provide product warranty on all components including software from the date of go-live of the solution.
- 3 years Warranty of all products.

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- 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.

22. PERIOD OF VALIDITY OF OFFER

For the purpose of placing the order, the proposals shall remain valid till 90 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, WTL may ask for extension of the period of validity and such a request shall be binding on Bidders. WTL’s request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

23. 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.

24. 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.

25. BID DUE DATE

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

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26. LATE BID

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

27. OPENING OF BID BY WTL

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

28. 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.

29. 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.

30. BID CURRENCIES

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

31. PRICE

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

32. 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.

33. WITHDRAWAL OF BID

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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.

34. 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.

35. FINAL INSPECTION

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

36. SITE INSPECTION

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

37. 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.

38. 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.

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

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SECTION – E

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

1. EVALUATION PROCEDURE

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

2. FINAL EVALUATION

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

3. AWARDING OF CONTRACT

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

- a) L1 Bidder technically compliant shall be awarded the contract, provided the overall project is within the budget. WTL reserves the right to negotiate and finalize the project contract value, prior to award of contract.
- b) For faster execution of the project, WTL may split the work order among the bidders other than L1 bidder with matching the price of L1 bidder.
- c) The successful bidder, must submit within 2 days, the project implementation plan, with details of
 - a) ordering of each and every component to the OEMs, who have provided authorization in the bid
 - b) communication with each JU and associated entity, with whose support the project shall be implemented, including contract agreements required for the project. The detailed project plan shall also include the implementation timeline for the project at granular level, including the installation plan for each point where camera and network shall be setup. The project plan must be jointly approved by WTL and JU.

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c) Assign the Project Management and implementation team, and submit a list of resources, Project Manager, Project engineers, other resources, responsible for the implementation of the project, along with their Bio-data, for approval by WTL.

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

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

4. POST QUALIFICATION

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

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SECTION – F

TECHNICAL CAPABILITY OF BIDDER

(Tender no. WTL/JU/CCTV/23-24/024)

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

NOTE:

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

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SECTION – G

FINANCIAL CAPABILITY OF BIDDER

(Tender no. WTL/JU/CCTV/23-24/024)

FINANCIAL INFORMATION

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Note:

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

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SECTION – H

BIDDERS'S DETAILS

(Tender no. WTL/JU/CCTV/23-24/024)

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

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13	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	
14	Number of Offices in district headquarters in West Bengal	
15	Is your organization having ISO 9001:2015 certificates?	
16	List the major clients with whom your organization has been / is currently associated.	
17	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
18	Have you ever been denied tendering facilities by any Government / Department / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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SECTION – I

LIST OF CLIENTS OF SIMILAR ORDERS

(Tender no. WTL/JU/CCTV/23-24/024)

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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SECTION - J

BID FROM

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

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

Sub: Supply, Installation, Testing, Commissioning (SITC) with three Years Warranty of IP based CCTV Surveillance system for Jadavpur University Main Campus, Salt Lake Campus and Hostel Gates.

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/JU/CCTV/22-23/024dated 01.09.2023, do hereby propose to execute the job as per specification as set forth in your Bid documents.
- 2.The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 365 (Three hundred sixty five) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
- 3.We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipment and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
- 4.Earnest Money Deposit: We have transferred the Tender Fee & EMD Amount online through e-Tender portal.
- 5.We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
- 6.If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.

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7. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, this.....day of.....2023

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SECTION - K

MAKE, MODEL & PART NUMBER DECLARATION

(Tender no. WTL/JU/CCTV/23-24/024)

Jadavpur University Main Campus, Hostel & Second Campus

SL.	DESCRIPTION	Make / Brand	Model / Part no.
1	8P POE Switch with 2 Nos of SFP Port		
2	1G SM SFP MODULE		
3	1 KVA UPS with 30 min backup		
4	4MP Fixed Dome camera		
5	4MP VF Bullet Camera		
6	4MP ANPR Camera		
7	Camera protection Cage/Enclosure		
8	Water Proof Box		
9	43 inch Monitor		
10	32 channel NVR with 4 nos of SATA		
11	Wireless Mouse		
12	10M HDMI Cable		
13	8TB HDD		
14	9U Loaded RACK with all accessories		
15	6 Port Loaded SM SC Type LIU		
16	18 Feet Pole for camera fixing		
17	GI Clamp for camera fixing		
18	6 Core SM armoured outdoor OFC Cable		
19	3M SC-LC Type SM fiber Patchcord		
20	3M LC-LC Type SM fiber Patchcord		
21	Cat6 UTP Armored Cable		
22	Outdoor RJ45 Connector - Waterproof		
23	20 MM GI PIPE With Accessories		
24	25 MM PVC PIPE		
25	32 MM HDPE Pipe with accessories		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

SECTION - L

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT

(Tender no. WTL/JU/CCTV/23-24/024)

4MP VF Bullet Camera			
Category	Parameter	Description	Compliance (Yes/No)
Camera	Image Sensor	1/3"CMOS	
	Max. Resolution	2688(H)×1520(V)	
	ROM	128 MB	
	RAM	128 MB	
	Scanning System	Progressive	
	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s	
	Min. Illumination	0.008 Lux @ F1.5	
	Illumination Distance	60 m (IR)	
	Illuminator On/Off Control	Auto/Manual	
	Illuminator Number	4 (IR LED)	
	Pan/Tilt/Rotation Range	Horizontal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°	
Lens	Lens Type	Motorized Vari-focal	
	Lens Mount	φ14	
	Focal Length	2.7-13.5mm	
	Max. Aperture	F1.5	
	Field of View	Horizontal: 104°–27°Vertical: 55°–15°Diagonal: 124°–31°	
	Iris Control	Fixed	
	Close Focus Distance	0.8 m–0.8 m	
	DORI Distance	W: D: 64 m; O: 25.6 m; R: 12.8 m; I: 6.4 m T: D: 220 m; O: 88 m; R: 44 m; I: 22 m	
Smart Event	IVS	Intrusion; tripwire	
Video	Video Compression	H.265; H.264; H.264B; MJPEG	
	Smart Codec	H.264: Yes H.265: Yes	
	Video Frame Rate	50Hz Main stream (2560 × 1440 @ 25 fps); sub stream (704 × 576 @ 25 fps) Main stream (2688 × 1520 @ 20 fps); sub stream (704 × 576 @ 20 fps); Third stream: CIF@1fps 60Hz Main stream (2560 × 1440 @ 30 fps); sub stream (704 × 480 @ 30 fps) Main stream (2688 × 1520 @ 20 fps); sub stream (704 × 480 @ 20 fps); Third stream: CIF@1fps	
	Stream Capability	3 streams	
	Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M	

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		(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
	Bit Rate Control	CBR/VBR	
	Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps	
	Day/Night	Auto(ICR)/Color/B/W	
	BLC	Yes	
	HLC	Yes	
	WDR	120 dB	
	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional Custom	
	Gain Control	Auto/Manual	
	Noise Reduction	3D NR	
	Motion Detection	OFF/ON (4 areas, rectangular)	
	Region of Interest (RoI)	Yes (4 areas)	
	Smart Illumination	Yes	
	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)	
	Mirror	Yes	
	Privacy Masking	4 areas	
Audio	Audio Compression	G.711a; G.711Mu; G.726	
Network	Network Port	RJ-45 (10/100 Base-T)	
	Network Protocol	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	
	Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	
	User/Host	20	
	Storage	FTP; Micro SD card (max. 256 GB); NFS	
	Browser	IE Google Firefox	
	Management Software	As Per OEM	
Port	Audio Input	1 channel (RCA port)	
	Audio Output	1 channel (RCA port)	
	Alarm Input	1 channel in: 5mA 3V–5V DC	
	Alarm Output	1 channel out: 300mA 12V DC	
Power	Power Supply	DC12V/PoE(802.3af)	
	Power Consumption	< 9.6W	
Environment	Operating Temperature	-30°C to +60°C (-22°F to +140°F)	
	Operating Humidity	≤95%	
	Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
	Protection	IP67	
Structure	Casing	Metal	

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**Plot – 5, Block – BP, Sector – V,
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Standard	Certificate	CE-LVD, CE-EMC, FCC, UL/CUL, BIS	
4MP Fixed Dome Camera			
			Compliance (Yes/No)
Category	Parameter	Description	
Camera	Image Sensor	1/3"CMOS	
	Max. Resolution	2688(H)×1520(V)	
	ROM	128 MB	
	RAM	512 MB	
	Scanning System	Progressive	
	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s	
	Min. Illumination	0.005 Lux @ F1.6	
	Illumination Distance	50 m (IR)	
	Illuminator On/Off Control	Auto/Manual	
	Illuminator Number	3 (IR LED)	
	Pan/Tilt/Rotation Range	Horizontal: 0°–355° Vertical: 0°–65° Rotation: 0°–355°	
Lens	Lens Type	Fixed-focal	
	Lens Mount	M12	
	Focal Length	2.8 mm; 3.6 mm; 6 mm	
	Max. Aperture	F1.6	
	Field of View	2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45° ; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°	
	Iris Control	Fixed	
Close Focus Distance	2.8 mm: 0.9 m (3.0 ft)		
	3.6 mm: 1.6 m (5.3 ft)		
	6 mm: 3.2 m (10.5 ft)		
Smart Event	IVS	Intrusion; tripwire	
Video	Video Compression	H.265; H.264; H.264B; MJPEG	
	Smart Codec	H.264: Yes H.265: Yes	
	Video Frame Rate	Main stream (2688 × 1520@1–25/30 fps)sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)third stream (1280 × 720@1–25/30 fps)	
	Stream Capability	3 streams	
	Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
	Bit Rate Control	CBR/VBR	
	Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	

WEBEL TECHNOLOGY LIMITED

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**Plot – 5, Block – BP, Sector – V,
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	Day/Night	Auto(ICR)/Color/B/W	
	BLC	Yes	
	HLC	Yes	
	WDR	120 dB	
	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional Custom	
	Gain Control	Auto/Manual	
	Noise Reduction	3D NR	
	Motion Detection	OFF/ON (4 areas, rectangular)	
	Region of Interest (RoI)	Yes (4 areas)	
	Smart Illumination	Yes	
	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
	Mirror	Yes	
	Privacy Masking	4 areas	
Audio	Audio Compression	G.711a; G.711Mu; G.726	
Network	Network Port	RJ-45 (10/100 Base-T)	
	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP	
	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
	User/Host	20	
	Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
	Browser	IE Google Firefox	
	Management Software	As Per OEM	
	Mobile Client	iOS;Android	
Port	Audio Input	1 channel (RCA port)	
	Audio Output	1 channel (RCA port)	
	Alarm Input	1 channel in: 5mA 3V–5V DC	
	Alarm Output	1 channel out: 300mA 12V DC	
Power	Power Supply	DC12V/PoE(802.3af)	
	Power Consumption	<7.3W	
Environment	Operating Temperature	-40°C to +60°C (-40°F to +140°F)	
	Operating Humidity	≤95%	
	Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
	Protection	IP67, IK10	
Structure	Casing	Metal	
Standard	Certificate	CE-LVD, CE-EMC, FCC, UL/CUL, BIS	
4MP ANPR Camera			

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Plot – 5, Block – BP, Sector – V,
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Category	Parameter	Description	Compliance (Yes/No)
Basic	Main processor	High-performance embedded processor	
	Image Sensor	1/1.8" CMOS	
	Image Resolution	2688 × 1520	
	Electronic Shutter Speed	1/25 s–1/100000 s (manual/auto)	
	Video Frame Rate	Maximum 25fps; main stream (2688 ×1520 @ 25fps), (1920 x 1080 @ 50/60fps)	
	IRIS Control	Fixed iris/manual iris/auto iris/P iris	
	Lens Type	Vari-Focal	
	Mount Type	On-Boards	
	Focal Length	10 ~ 40 mm or better	
	Video Bit rate	32kbps–32767kbps	
	Picture Encoding Format	JPEG	
	Video Compression	H.265/H.264M/H.264H/H.264B/MJPE GG	
	White Balance	Auto/ outdoor/ manual/ local whitebalance/ natural light/ street light	
	Bad Pixel Correction	Supported	
	WDR	90 dB or better	
	Edge Enhancement	Supported	
	Noise Reduction	2DNR/3DNR	
	Composite Image	Supports composing 1, 2, 3, or 4 pictures	
	OSD Overlay	Motor vehicles: Time, location (video channel location), lane (number, direction), plate (number and color), speed, region, vehicle color, vehicle logo, vehicle type Non-motor vehicles: Helmet, passenger overloading	
	Automatic Network Replenishment (ANR)	Platform, FTP (TF card is required)	
Image Tampering Prevention	Yes. Watermark and verification are available for videos and pictures		
Drawing Detection Line	Supports automatically drawing detection lines		
Auto Registration	Supported		
Intelligence	Target Detection	Motor vehicles and non-motor vehicles	
	License Plate Recognition	Adopts self-developed algorithm to recognize license plates combining numbers and letters	
	Vehicle Type Recognition	Vehicle head: Coach bus, medium bus, SUV, MPV, pickup, heavy truck, medium truck, car, van, and light truck Vehicle tail: SUV, car, van, coach bus, pickup, cargo truck, mini truck, tank truck, and mixer truck	
	Motor Vehicle Violation Capture	Overspeed, under speed, wrong-way driving, illegal lane change	
	Non-motor Vehicle Violation Capture	Overloading, not wearing a helmet	

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	Traffic Flow Detection	Statistics of vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, road status, and more; statistics can be exported in Excel	
Ports	Storage	FTP, TF card (maximum 256GB@Class10)	
	Network	1 RJ-45 Ethernet port, 10/100/1000M network transmission	
	RS-485	1 Port	
	RS-232	2 Ports	
	Alarm Input & Output	3/2 Channel Input/ Output	
	Audio Input& Output	1/1 Channel Input/ Output	
Power	Power Supply	12V DC, 36V DC, PoE	
	Operating Temperature	-40°C to +60°C (-40°F to +149°F) or better	
	Ingress Protection	IP67 ;	
Standard	Certificate	CE, FCC, UL, BIS	
32 Channels Network Video Recorder			Compliance (Yes/No)
Category	Parameter	Description	
System	Main Processor	Industrial-grade processor	
	Operating System	Embedded Linux	
	Operating Interface	Web, Local GUI	
AI	AI by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus	
	AI by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; object monitoring	
Perimeter Protection	Perimeter Performance AI by Recorder (Number of Channels)	24 channels, 10 IVS rules for each channel	
	Perimeter Performance of AI by Camera (Number of Channels)	32 channels	
Face Detection	Face Attributes	Gender; age group; glasses; expressions; face mask; beard	
	Face Detection Performance of AI by Recorder (Number of Channels)	4 channels (up to 12 face images/s each channel)	
	Face Detection Performance of AI by Camera (Number of Channels)	32 channels	

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	Face Database Capacity	Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	
	Face Recognition Performance of AI by Recorder (Number of Channels)	1. 20 channels FD (by camera) + FR (by recorder), image stream: 20 face images/s 2. 4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s	
	Face Recognition Performance of AI by Camera (Number of Channels)	32 channels	
SMD Plus	SMD Plus by Recorder	32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	
	SMD Plus by Camera	32 channels	
Video Metadata	Metadata Performance of AI by Recorder (Number of Channels)	8 channels	
	Metadata Performance of AI by Camera (Number of Channels)	32 channels	
	Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling,	
	Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	
Vehicle License Plate Comparison	ANPR by Camera (Number of Channels)	32 channels	
	License Plate Database Capacity	Blocklist and allowlist: 20,000	
Audio and Video	Access Channel	32 channels	
	Network Bandwidth	AI disabled: 1024 Mbps incoming, 1024 Mbps recording and 800 Mbps outgoing AI enabled: 512 Mbps incoming, 512 Mbps recording and 400 Mbps outgoing	
	Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1	
	Decoding Capability	2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 72-channel 720P@30 fps 160-channel D1@30 fps	

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Plot – 5, Block – BP, Sector – V,

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	Video Output	2-channel VGA, 4-channel HDMI video output. Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1 and HDMI2 is 4K max. resolution of HDMI3 is 8K max. resolution of HDMI4 is 1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1, HDMI2 and HDMI3 is 4K max. resolution of HDMI4 is 1080p	
	Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16/25/36	
	Third-party Camera Access	ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung	
Compression Standard	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG	
	Audio Compression	G.711a; G.711u; PCM; G726	
Network	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI	
	Mobile Phone Access	iOS; Android	
	Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK	
	Browser	Chrome IE 9 or later Firefox	
	Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes	
Recording Playback	Multi-channel Playback	Up to 16 channels	
	Record Mode	Manual; alarm; motion detection; scheduled	
	Backup Method	Portable hard drive, eSATA disk, burner, USB device and network	
	Playback Mode	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off	
Storage	Disk Group	Yes	
	RAID	RAID 0/1/5/6/10	
	Hot Swapping	Yes	
Alarm	General Alarm	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm	
	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan	
	Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); SMD Plus alarms; ANPR; people counting; stereo analysis; crowd distribution; heat map	

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	Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log, preset; email	
Port	Audio Input	1-channel RCA	
	Audio Output	2-channel RCA	
	Alarm Input	16 channels	
	Alarm Output	8 channels	
	HDD Interface	8 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.	
	eSATA	1	
	RS-232	1	
	RS-485	1 × A/B	
	USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)	
	HDMI	4	
	VGA	2	
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)		
General	Power Supply	100–240 VAC, 50/60 Hz	
	Power Consumption	<18 W (without HDD)	
	Operating Temperature	–10 °C to +55 °C (14 °F to +131 °F)	
	Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)	
	Operating Humidity	10%–93% (RH)	
	Installation	2U Rack or desktop	
Standard	Certificate	CE, FCC, UL, BIS	

8 Port PoE Web Managed Switch

	Parameters	Specifications	Compliance (Yes/No)
	Device Type	8 port POE+ L3 Desktop Web Managed Switch	
	Subtype	Gigabit Ethernet	
	Ports	8 x 10/100/1000 Poe+ T + 2 SFP 1GbE ports	
	Performance	Switching capacity: 20 Gbps, Throughput:14 Mpps	
	Routing Protocol	Static IP routing, Does support 32 static route	
	MAC Address Table Size	8000 entries	
	PoE power	124 W PoE+	
	Jumbo Frame Support	9216 bytes	
	Remote Management Protocol	SNMP 1, RMON, SNMP 3, SNMP 2c, HTTP, HTTPS, TFTP, RADIUS	
	Device management	Does support any cloud-based web portal as optional for easy network management onsite or remotely and option to manage your switches through local web GUI	
	Encryption Algorithm	SSL	
	Authentication Method	RADIUS	

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	Features	Flow control, DHCP support, ARP support, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, IPv6 support, half duplex mode, full duplex mode, Spanning Tree Protocol (STP) support, Multiple Spanning Tree Protocol (MSTP) support, Access Control List (ACL) support, Quality of Service (QoS), Trusted Platform Module (TPM), LLDP support, Link Aggregation Control Protocol (LACP), Energy Efficient Ethernet, Class of Service (CoS), BPDU Filter	
	Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3at, IEEE 802.3az	
	Memory	512 MB SDRAM and Flash Memory	
	Compliant Standards	VCCI, CISPR 24, EN 61000-3-2, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, EN 61000-3-3, UL 60950-1, IEC 60950-1, EN 60950-1, CSA C22.2 No. 60950-1, EN 60825-1, CNS 13438, EN 55024:2010, FCC CFR47 Part 15 A, ICES-003 issue 6 Class A, UL 62368-1 Second Edition, CISPR 32 Class A, EN 62368-1:2014, EN 55032:2015+AC:2016, CISPR 35, SSL, IEC 62368-1: 2014 Second Edition, EN 55035:2017	
	Operating Temperature	0 °C - 40 °C	
	Warranty	Limited warranty - lifetime	

43" Display

Sl. No	Parameters	Specifications	Compliance (Yes/No)
1	Display Size(Diagonal)	43"	
	Panel Technology	IPS	
2	Resolution	3840x2160	
3	Backlight Unit Type	Direct	
4	Brightness	300 nits	
5	Dynamic Contrast Ratio (Dynamic MCI(Hz))	10,00,000:1	
6	Static(Panel) Contrast Ratio	1200:1	
7	Refresh Rate	60Hz	
8	HDR(10PRO/HLG)	Yes	
9	Speaker (Soud Output)	10W + 10 W	
10	Digital (Terrestrial, Cable, Satellite)	DBV-T2/C	

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**Plot – 5, Block – BP, Sector – V,
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11	Input Interface	HDMI IN(3(2.0)), Headphone Out (Phone Jack type),RS232(D-SUB9 pin/Phone Jack)(Phone Jack 4 Pin)	
12	Jack Interface	USB 2.0,Digital Audio Out (Optical), External Speaker Out(3.5mm Phone Jack), RJ45(Usage Purpose) (LAN)	
13	Power Supply(Voltage Hz)	AC 120V-50/60 Hz	
14	Typical Power Consumption	98 W	
15	Safety Certification	CB,CU,TR	
16	EMC	CE	
	Test Certificate	BIS	
17	Smart Features	Web Browser, Pre Loaded App, Soft AP, Wifi (802.11ac), Bluetooth, HDMI- ARC, SDP Server Compatibility	
18	Screen Share	Miracast, Smart Share	
19	Signage Features	Vertical set up, Fail over,NTP Server Setting, CISCO Certified Connectivity, Crestron connected(Network Based control), play via URL, RTC(Real Time Clock), Time Scheduler, NTP Sync Timer, BEACON, Embedded CM(Content Manager)	
20	Warranty	3 Years	

1000 VA LI UPS (168 VAH)

S.NO	DESCRIPTION	SPECIFICATION	CONFIRMATION (YES / NO)
1	MAKE		
2	MODEL	1000 Plus V	
	Rating(VA/Watts)	1000VA / 600Watts	
3	INPUT	1 Phase, 230 VAC	
	Input Voltage Range	140V - 300 VAC	
	Input Frequency	50Hz	
4	OUTPUT	1 Phase, 230 VAC	
	Output Volts Range	195V - 255V AC (Mains Mode)	
		230V±10% (Battery Mode)	
	Transfer Time	4ms - 10ms typical	
	Output Frequency	50Hz +/-1 Hz (Battery Mode)	
	Output Wave form	Stepped Sinewave	
	Inverter Efficiency	> 60 %	
5	BATTERY		
	Battery	12 V SMF 7 AH - 2 Nos (inbuilt)	
	System Voltage	24 V DC	
	Recharge time	8 hrs for 90% charging	

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6	INDICATION & PROTECTION		
	Front Display	LED	
	Indication	AC Mode - Green Light	
		Backup Mode - Yellow flashing	
		Fault - Red lighting	
	Alarm	Battery Mode - Every 10 Second	
		Low Battery - Every Second	
		Over load - Every 0.5 Second	
		Fault - Continuously sounding	
	Night guard protection	Required	
	Protection Features	Mains Ac Input Low / High, Battery mode Input Low / High, Short circuit trip - Mains / Battery, Over load Trip - Mains / Battery mode	
	Input Protection	Resettable Circuit Breaker	
8	CONNECTION		
	Input Type	1.5 meter Power Chord	
	Output Type	4 Nos - 5 Pin Indian Socket	
7	PHYSICAL		
	Dimension(W X D X H) mm	140x368x180	
	Weight	14	
9	ENVIRONMENTAL		
	Relative Humidity	0-95% without condensation	
	Operating Temperature	0 - 40 degC	
	Noise Level	< 40 dB at 1 meter distance	
10	FEATURES		
		Microprocessor based design for High reliability	
		Auto Restart Facility	
		Generator Compatibility	
		Cold Soft	
		Double Boost & Single Buck AVR	
11	STANDARDS		
	IS 16242 (PART 1) : 2014	Required	
	Performance Test Report	Required from NTH (National Test House)	

Cat6 Outdoor Armored Cable		
S. No.	Technical Parameters	Compliance (Yes/No)

WEBEL TECHNOLOGY LIMITED

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Plot – 5, Block – BP, Sector – V,

Salt Lake, Kolkata – 700091.

1	Cat 6, 23 AWG U/UTP, Inner FR-PVC Jacket IEC 60332-1 Rated, ECCS Corrugated Tape Armor (Thickness ≥ 0.125 mm), Outer HDPE Jacket Operating Temperature: -20 to +70Deg, Rodent Resistant Outdoor Cable	
2	Suitable for 1GBASE-T with Min. 250Mhz of Bandwidth	
3	4 Twisted Pair alongside PE / PVC Cross Separator	
4	Conductor: 23AWG Solid Annealed Bare Copper	
5	Insulation: High Density Polyethylene, Diameter 1.0 ± 0.05 mm	
6	PVC Inner Jacket	
7	Aarmor : ECCS Corrugated Tape, ≥ 0.125 mm	
8	UV Resistant HDPE Outer Jacket	
9	Cable Outer Diameter: 10.7 ± 1.5 mm	
10	Operating Temperature: -20°C to +70°C	
11	Bend Radius: 20 X Cable Diameter (Min.) or Better	
12	Conductor Resistance : $\leq 9.38 \Omega / 100$ m	
13	Resistance Unbalance : 5% Max	
14	Mutual Capacitance : ≤ 5.6 nF/100m	
15	Putup : 305M	
16	RoHS Complied	

24Port Unloaded Universal Panel

S. No.	Technical Parameters	Compliance (Yes/No)
1	24 Port 1U Unloaded Universal Modular Straight Patch Panel preloaded with cable support Bar	
2	The Patch panel should be universal (stainless steel rear metal frame) and should be able to support both for UTP & STP Solutions	
3	Patch panel should be equipped with cable strain relief retention tray (Cable Support Bar) with slots to tie individual cable properly at the Support Bar	
4	Each port of the panel should have individual transparent labelling point	
5	Panel should be inbuilt transparent spring shutter for dust protection on each port. (Shuttered IO not recommended, because when shutter gets malfunctioned then entire IO is of no use)	
6	Should be RoHS & UL 94V-0 complied	
7	Panel shall be UL 1863 Rated (Certificate to be provided along with Bid)	

Cat6 Unshielded Patch Cord

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

S. No.	Technical Parameters	Compliance (Yes/No)
1	Cat6 Patch Cord U/UTP Unshielded LSZH 24AWG Patch Cord	
2	Cable Construction of Patch Cord : U/UTP LSZH	
3	Number of conductors : 8 (4 Twisted Pairs)	
4	Conductor Material : Bare Copper (24AWG Stranded)	
5	Cable Overall Nominal diameter : <= 6.0 mm	
6	Insulation: HDPE	
7	Cat 6 patch cord plug to have round cable holder strain relief transparent boot to avoid bending.	
8	Jacket: LSZH (Low Smoke Zero Halogen) with Flame Rating IEC 60332-1 or Better	
9	Operating Temperature : -20 to + 60 °C	
10	Plug should have high repeatability cross talk performance with Min. 750 Cycles.	

Cat6 RJ45 IP20 Industrial Plug

S. No.	Technical Parameters	Compliance (Yes/No)
1	Category 6 RJ45 IP20 Universal Modular Toolless Plug, Support IEEE 802.3bt 4PPoE upto 90Watts	
2	Suitable for 1000BASE-T applications up to 250 MHz as per Cat6 Standard	
3	Should Accept 23-24 AWG Solid Conductors	
4	Should meet ANSI/TIA 568-C.2 Category 6 Standard Applications, Support IEEE 802.3bt 4PPoE upto 90Watts	
5	Should accept 5 to 8.0mm Diameter Cables	
6	Material: RoHS complied	
7	Material: PC UL 94V-2	
8	Industrial : IP 20 Rated	
9	Should be Universal suitable for both Shielded and Unshielded Cables.	
10	PCB Material : FR-4, UL 94V-0	
11	IDC Terminal : Phosphor bronze with Tin-plated	
12	Should have a Bend Limiting Removal Circular Boot for Cable with Retention strength of >= 7.5kg (between Jack and Plug)	
13	Operating Temperature : -40 to +70 °C	
14	Clamp/Re-Termination >= 200 Cycles	
15	The Modular Plug shall not require any Proprietary Termination Tool for termination of Cable. It should be Tool Less termination.	

6 Core Armored Outdoor Fiber Cable

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S. No.	Technical Parameters	Compliance (Yes/No)
1	6 Core Singlemode (OS2) 9/125 Fiber Cable, ITU G.652.D, ECCS Armored Uni-Tube Filled With Thixotropic Jelly, UV-HDPE Jacket, Strength Member 2 No. of Steel Wires embedded in HDPE Jacket	
2	Application : The fiber cable should be installed in Outdoor, Duct, Trenches & Underground application.	
3	Features : The fiber cable should have excellent features of Tensile, Crush, Water Prevention with Jelly &/Or Moisture Barrier Tape	
4	Cable Construction	
5	Uni-tube (Central Loose Tube) with color coded fibers	
6	Central Loose Tube : PBT Loose Tube filled with Thixotropic Jelly	
7	Armoring : Corrugated ECCS Tape Armouring (0.155 mm Nominal thickness)	
8	Outer Sheath : UV Resistance HDPE	
9	Moisture Barrer : Water Blocking Tape Under Armor	
10	Strength Member: 2 No. of Steel Music Wires ($\geq 1.0\text{mm}$) embedded in HDPE Jacket	
11	Physical / Mechanical Characteristics	
12	Outer Diameter : 7.5 ± 0.5 mm	
13	Nominal Jacket Thickness : 1.5 mm	
14	Tensile Strength : ≥ 1000 Newton (IEC 60794-1-2-E1)	
15	Bending Radius : $\leq 20 \times \text{OD}$ (IEC 60794-1-2-E11) (OD=Cable Outer Diameter)	
16	Crush Resistance : ≥ 2000 Newton/100mm (IEC 60794-1-2-E3)	
17	Water Penetration : Meets IEC 60974-1-2 (24 Hr, 3Meter Sample, 1Meter Height)	
18	Weight : ≤ 65 Kg/km	
19	Environmental Characteristics	
20	Operating Temperature : IEC 60794-1-2-F1 @ -20°C to $+70^{\circ}\text{C}$	
21	Storage Temperature : EC 60794-1-2-F1 @ -30°C to $+60^{\circ}\text{C}$	
22	Installation Temperature : EC 60794-1-2-F1 @ -15°C to $+60^{\circ}\text{C}$	
23	Safety : ROHS to be mentioned in data sheet	
24	Optical Characteristics	
25	Fiber Type : SM (9/125) OS2 as per G.652.D	
26	Max. Attenuation : 0.35 dB/km @ 1310nm , 0.22 dB/km @ 1550nm	
27	Mode Field Diameter @ 1310nm : 9.2 ± 0.4 μm	
28	Dispersion : ≤ 3.5 ps/nm.km & ≤ 18 ps/nm.km	
29	Fiber cut of Wavelength : ≤ 1320	
30	Cable Cut of Wavelength : ≤ 1260	
31	Zero Dispersion Wavelength : 1300-1324 nm	
32	Zero Dispersion Slope : ≤ 0.092 ps/nm ² .km	
33	Coating Diameter : 245 ± 10 μm	
34	Cladding Diameter : 125 ± 0.7 μm	
35	Fiber Curl : ≥ 4 m radius curve	
36	Cladding Non-Circularity : $\leq 1\%$	
37	Mode Field Concentricity error : ≤ 0.6 μm	

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38	Coating/Cladding Concentricity Error : $\leq 12 \mu\text{m}$	
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6/12/24 Fiber Port, LC or SC Single mode Fiber Panels

S. No.	Technical Parameters	Compliance (Yes/No)
1	12/24Fiber Port in 1U x 19" LIU Loaded with Single mode OS2 LC or SC Adapters & LSZH Pigtailed along with Splice Trays	
2	The Fiber Panel shall have Telescopic Sliding Shelf for easy smooth maintenance add/move/changes.	
3	The optical fiber Pigtailed shall be factory loaded inside each individual Port of the panel. Pigtailed shall be LSZH with Single mode 9/125 μm fiber	
4	Panel shall have Min. 4 No. of Cable Entry Slots at back of the Panel supplied with Cable Holders inside Panel.	
5	Completely Enclosed without any open area to avoid any Rodent Entry	
6	Pigtail Parameters Loaded inside Panel shall meet below mentioned requirements: -	
7	Pigtail Buffer Jacket Material: LSZH complying to IEC 61034-1, IEC-60332-1, IEC-60754-1	
8	Connector Insertion loss should be better than 0.35 dB	
9	Return Loss ≥ 50 for UPC and ≥ 65 for APC	
10	Attenuation: 1310/1550 : 0.3 /0.2 dB/KM	
11	RoHS Complied, Meets ANSI/TIA 568.3-D	
12	Repeatability: $\leq 0.2\text{DB}$ 1000 Times Mating Cycles	

LC-SC OS2 Single mode Duplex Fiber Patch Cord, 1 Meter & 3 Meter

S. No.	Technical Parameters	Compliance (Yes/No)
1	Fiber Patch Cord, LC Duplex - SC Duplex, 9/125 μm OS2 Single mode Duplex Zip Cord ($\leq 2.0\text{mm}$), IL $\leq 0.35\text{dB}$, RL $\geq 50\text{dB}$, LSZH Jacket IEC 60332-1, Operating Temperature -40°C to $+85^{\circ}\text{C}$, Meets ANSI/TIA 568.3-D	
2	Cable : LC/LC or LC/SC or SC/SC, 9/125 μm OS2 Single mode Duplex Zip Cord ($\leq 2.0\text{mm}$). OEM Name shall be mentioned on the patch cord cable.	
3	Connectors : The optical fiber patch leads shall comprise of Single mode 9/125 μm fiber	
4	Connector Insertion loss $\leq 0.35 \text{ dB}$	
5	Return Loss ≥ 55 for UPC and ≥ 65 for APC	
6	Jacket Material: LSZH complying to IEC 61034-1, IEC-60332-1, IEC-60754-1	
7	Length : 3 Meter	
8	Attenuation: 1310/1550 : 0.35/0.20 dB/KM	
9	Operating Temperature: -40°C to $+85^{\circ}\text{C}$	
10	Repeatability: $\leq 0.2\text{DB}$ 1000 Times Mating Cycles	
11	OEM Name shall be printed on the Patch Cord Cable.	
12	RoHS Complied, Meets ANSI/TIA 568.3-D	

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9U Network Rack		
S.No	TECHNICAL SPECIFICATION	Compliance (Yes/No)
1	19" Wall Mount Rack:9U x 600mm width x 600mm depth, Steel frame structure design, Top & Bottom Cover with Vent and Cable entry/exit provision, Epoxy Polyester Texture finish 80uM with Seven Tank pretreatment process meeting ASTM standards. Certified for IP20 & IK08 protection. Powder quoting certified for 500 hrs Salt spray test. ISO 9001-2015 & Confirms to DIN41494 Standard	
2	Front toughened glass door with lock & key	
3	Front panel mounting hardware. – 1 No.	
4	230V A/C 90 CFM fan mounted on top cover - 1 No.	
5	PDU 6 sockets 5A – 1 No.	
6	Horizontal Cable Manager 1U with loops – 2 Nos.	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

SECTION - M

MANUFACTURER'S AUTHORIZATION FORM

Date:

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

Ref: Enquiry Notice No.: WTL/JU/CCTV/22-23/024 dated 01.09.2023

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

1. _____
2. _____

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

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

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

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

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

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

Name _____ In the capacity of _____

Signed _____

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

Dated on _____ day of _____ 2023

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

WTL/JU/CCTV/23-24/024 dated 01.09.2023

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

SECTION - N

DOCUMENTS TO BE SUBMITTED

(Tender no. WTL/JU/CCTV/23-24/024)

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

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SECTION – O

DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	01.09.2023
2	Documents download/sale start date (Online)	01.09.2023
3	Last Date and time of sending the queries (Offline)	05.09.2023 & 15.00 hrs.
4	Pre Bid Meeting (On Line)	07.09.2023 & 12.00 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	09.09.2023 & 12.00 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)	13.09.2023 & 13.00 hrs.
10	Bid opening date & time for Technical Proposals (On line)	15.09.2023 & 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)	-

WEBEL TECHNOLOGY LIMITED

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SECTION – P

GUIDANCE FOR E-TENDERING

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

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

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

Techno Commercial Cover:

Technical Document 1 (scanned & join in pdf format then upload)

1. Bid Form as per format (Section – J)
2. Other Documents

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

1. NIT Declaration duly stamped & signed in letter head of bidder (Section – Q)
2. Other Documents

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

Technical Compliance (scanned & joins in pdf format then upload)

1. Technical Specification With Compliance Statement (Section – I)
2. Manufacturer Authorisation Form (Section – M)
3. Other Documents

Financial Cover:

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

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

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

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of Company: _____

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)
Plot – 5, Block – BP, Sector – V,
Salt Lake, Kolkata – 700091.

SECTION - Q

NIT DECLARATION FOR BIDDER

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

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

Sub: Supply, Installation, Testing, Commissioning (SITC) with three Years Warranty of IP based CCTV Surveillance system for Jadavpur University Main Campus, Salt Lake Campus and Hostel Gates.

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/JU/CCTV/23-24/024 dated 01.09.2023 for Supply, Installation, Testing, Commissioning (SITC) with three Years Warranty of IP based CCTV Surveillance system for Jadavpur University Main Campus, Salt Lake Campus and Hostel Gates published by Webel Technology Limited in e-Tender website.

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

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, thisday of2023

WEBEL TECHNOLOGY LIMITED

(A Govt. of West Bengal Undertaking)

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

SECTION – R

FORMAT FOR PRE-BID MEETING QUERY

(Tender no. WTL/JU/CCTV/23-24/024)

Name of the Bidder:

Queries

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

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____