

# WEBEL TECHNOLOGY LIMITED

## NOTICE INVITING e-TENDER

Online Tender documents are invited for Technical refreshment and enhancement of implementation of **“Supply, Installation, Testing, Commissioning & Maintenance with 3 Years Warranty Support of IP Based CCTV Surveillance system and Dedicated Fiber Optic Network Backbone Connectivity to Airport Traffic Guard under Bidhannagar Police Commissionerate Jurisdiction, West Bengal”**.

Reputed System Integrators having sufficient experience and credentials for successful completion of **“Similar Nature”** of work in a Government Department/PSU/Autonomous Body or any reputed organization. Bidder must have adequate Service Engineer for providing on-site warranty service within the stipulated time.

1.	Tender No. & Date	WTL/RVNL/CCTV/23-24/042 dated 01.12.2023
2.	Tender Version No.	1.0
3.	Brief description of Job	Technical refreshment and enhancement of surveillance coverage area for Closed Circuit Television (CCTV) system at the Airport Traffic Guard Jurisdiction.
4.	Tender document Fee	Rs. 6000.00 (Rupees Six thousand only). The amount to be transferred online through e-Tender portal.
5.	Earnest Money Deposit	Rs. 3,00,000.00 (Rupees Three Lakh only) The amount to be transferred online through e-Tender portal.
6.	Date of Downloading/Sale of Tender document	01.12.2023
7.	Pre-Bid Meeting date & time	11.12.2023 at 12.00 Hrs. (On-Line Meeting) <ul style="list-style-type: none"><li>• Pre-Bid meeting will be organized on online platform only. Only queries as per format (Section - N) reaching WTL by 08.12.2023 at 15.00 Hrs. will be taken for decision. Interest bidders are requested to send mail to <a href="mailto:purchase@wtl.co.in">purchase@wtl.co.in</a> for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. Participants will be notified in advance if there are changes in pre-bid meeting date and time.</li><li>• Only queries as per format (Section - N) reaching WTL by 08.12.2023 at 15.00 Hrs. will be taken for discussion.</li><li>• Queries will be sent to Manager (Purchase) (<a href="mailto:purchase@wtl.co.in">purchase@wtl.co.in</a>).</li></ul>
8.	Bid Submission Start date & time	15.12.2023 at 15.00 Hrs.
9.	Last date & time of EMD & Tender Fee submission	Before Uploading of Tender
10.	Last date & time of Bid Submission	20.12.2023 at 13.00 Hrs.
11.	Date & time of Technical Bid Opening	22.12.2023 at 13.00 Hrs.
12.	Venue of Pre-Bid Meeting & submission of EMD & Tender Fee	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block - BP, Sector - V, Salt Lake City, Kolkata - 700091.
13.	Contact person	033-23673403-06

## **WEBEL TECHNOLOGY LIMITED**

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

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## **CONTENTS OF THE TENDER DOCUMENT**

The Tender document comprises of the following:

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SECTION – H	BILL OF MATERIAL AND CAMERA LOCATION DETAILS
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# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – A**

### **SCOPE OF WORK & RESPONSIBILITY**

#### **For System Integrator**

- 1) The System Integrator is responsible for end-to-end execution of the turnkey project from procurement of Software and Hardware Items, Installations and commissioning and making necessary arrangement for feeding data from these cameras and analyzing the data through application and presenting the dashboard for easy decision making. The solution should also be capable of generating Status reports, duration of the day, date wise etc.
- 2) **Supply:** Entrusted bidder must supply and work as per work order. Supplied components must satisfy the minimum guiding specifications and guidelines, as applicable, proprietary technology must be mentioned against each component. Bidder is allowed to propose only one make / model per system or software required for the proposed solution. Bids with optional offers would be summarily rejected.
- 3) **Technical refreshment and enhancement of surveillance coverage area, Installation, Integration & Implementation:** Delivery, Installation & Commissioning of Outdoor Closed Circuit Television (CCTV) Surveillance system along with Technical refreshment and enhancement of surveillance coverage area for Closed Circuit Television (CCTV) system at Airport Traffic Guard Jurisdiction. Delivery & Installation will be governed by the stated guidelines and associated standards & in line with the scope of work defined in this document. The delivery / supply of the materials done by successful Bidder at respective location only. The Post installation warranty supports are the sole responsibility of the Original Equipment Manufacturer (OEM) and selected bidder.
- 4) **Service Quality and Assurance:** Services within installation, warranty period must be rendered with back to back OEM for hardware.
- 5) **Acceptance:** After successful Delivery & installation, installation reports prepare by WTL, signed and sealed by BDNPC Authority.
- 6) **Warranty / Support coverage period:** All hardware component service items should have minimum warranty period of period i.e. 36 months from the date of final acceptance of the system by the user or 38 months from date of delivery, whichever is earlier. Within warranty period, entrusted OEM will replace, re-integrate faulty, buggy components.
- 7) **Delivery:** All materials are to be delivered at Airport traffic guard office. After necessary checking, testing, marking of the all materials under supervision of WTL, successful bidder will take necessary step to install the material at installation site. Any sticker/ stationery item required to complete the marking will be provided by successful bidder. **The items may be delivered in multiple phases.**
- 8) **Warranty Certificate:** On successful installation bidder should provide installed equipment's actual serial no. duly certified by respective OEM. This clause is applicable for only active materials / components of Camera, Switch, UPS & Display.
- 9) **Joint site visits with Airport TI & WTL representative – SI** After receiving the PO from WTL, shall be required to finalize the exact location.
- 10) Existing infrastructure of all Municipalities or Panchayats (Like Poles, Clamps) should be used to install the camera and other accessories to reduce the project cost and increase the feasibility.
- 11) Integration of the hardware equipment with the existing Hardware-based video surveillance system, implement analytics solutions should work with the Existing equipment installed, with minimum complexity.

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- 12) Training & Documentation** - SI shall prepare and train user nominated representative for Systems operation.
- 13) 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-Live formalities.
- 14) Bidder should confirm and make a provision for seamless integration with Existing CCTV Surveillance System (under same VMS platform) those are Installed by Bidhannagar Police Commissionerate under their jurisdiction.**

### **For the RVNL/BDNPC**

- 1) Bidhannagar Police Authority will provide necessary working permission for installation of CCTV system at Airport traffic guard jurisdiction area.
- 2) Bidhannagar Police authority will provide necessary power points for installation of CCTV system at Airport traffic guard jurisdiction.

### **For Webel Technology Ltd.**

- 1) WTL will provide all necessary support during the installation and post installation phase and SI will work under supervision of WTL team.

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## **SECTION – B**

### **ELIGIBILITY CRITERIA**

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

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technology advancement then OEM will support with equivalent or higher model. Also, any product which is nearing the EoS must not be proposed in the solution. Document to be submitted.

14) The Supplied OEM should be True H.265. Necessary HEVC certificate needs to be submitted

**B) To Pre-qualify of all the Active (Network) Equipment's should satisfy the Eligibility Criteria mentioned below:**

- 1) All PoE Switch, L2 Managed Switch, L3 Copper Port Switch & Fiber Switch should be from same OEM. Bidder should declaration in letter head.
- 2) Active components OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products. Certificate to be submitted.
- 3) Active components OEM Brand and company together presence in India should be at least for last 20 years. Declaration to be submitted.
- 4) OEM should have own service center/replacement center in West Bengal. Documentary proof/OEM letter head declaration, along with address & GST Number need to be submitted along with the bid. Document to be submitted.
- 5) OEM must not be blacklisted or banned by any State / Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally. Declaration to be submitted in OEM letter head.
- 6) OEM should not have filed for bankruptcy and should have profitable balance sheet for at least each of the last 10 (ten) consecutive financial years. Declaration to be submitted in OEM letter head.

**C) To Pre-qualify of all the Passive (Network) Equipment's should satisfy the Eligibility Criteria mentioned below:**

- 1) All CAT6 Cables, Fiber Optics Cable, Patch Cord should be from same OEM. Bidder should declaration in letter head.
- 2) Passive components OEM Brand and company together presence in India should be at least for last 20 years. Declaration to be submitted.
- 3) OEM must not be blacklisted or banned by any State / Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally. Declaration to be submitted in OEM letter head.
- 4) OEM should have valid ISO 9001, ISO 14001 & ISO 45001:2018 certified for design and development of LAN and WAN products, all the relevant certificates must be submitted along with the bid.
- 5) OEM should have Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.
- 6) OEM should have Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.
- 7) OEM should not have filed for bankruptcy and should have profitable balance sheet for at least each of the last 10 (ten) consecutive financial years. Declaration to be submitted.

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

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- 1) ISO 9001, ISO14001, OSHAS18001, TL9000, Factory calibration lab of manufacturer shall be NABL accredited in India. Certificate to be submitted.

**E) General Criteria:**

1. OEM Authorization Certificate (MAF) is mandatory for All type of Cameras, VMS & Storage, Network Active, Network Passive components, UPSs and Display. NIT Number should be clearly mentioned on MAF (Manufacturer Authorization Form). MAF to be submitted as per format.
2. Bidder should confirm and make a provision for seamless integration with Existing CCTV Surveillance System (under same VMS platform) those are Installed by Bidhannagar Police Commissionerate under their jurisdiction Declaration from bidder should be submitted.

## **15) BIDDERS' ELIGIBILITY CRITERIA**

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder must be a System Integrator in IT/ ITeS/ ICT /CCTV sector. Relevant document to be submitted.
3. The bidder should have been operating for the last 5 years in India. Certificate of Incorporation and/ or Certificate of Commencement of Business issued by the Registrar of Companies/ Partnership Registration/ sole proprietorship registration under the Shops & Establishments Act / Trade License to be submitted.
4. The bidder must have their Registered/ Branch office in Kolkata. Valid trade license and local GST Registration Certificate are to be submitted.
5. The bidder should have valid GST Registration Certificate & PAN. Bidder shall have to submit photocopy of the documents.
6. The bidder shall have an order of "Similar Nature" of single order an amount not less than Rs. 150 (One hundred fifty) Lacs. in last 05 (Five) financial years (considering FY – 2018-19, 2019-20, 2020-21, 2021-22 & 2022-23) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.

OR

The bidder shall have orders of "Similar Nature" of two orders total amount not less than Rs. 250 (Two hundred fifty) Lacs. in last 05 (Five) financial years (considering FY 2018-19, 2019-20, 2020-21, 2021-22 & 2022-23) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.

OR

The bidder shall have orders of "Similar Nature" of three orders total amount not less than Rs. 350 (Three hundred fifty) Lacs in last 05 (Five) financial years (considering FY – 2018-19, 2019-20, 2020-21, 2021-22 & 2022-23) in Government Department / PSU / Autonomous Body. Documentary evidence should be enclosed.

7. The bidder should have a total aggregate turnover value of Rs. 15.00 (Fifteen) Cr. or above in the last 3 financial years (2020-21, 2021-22 & 2022-23). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
8. Bidder should have Positive net worth for last 03 (Three) financial years (From FY 2020-21, 2021-22 &



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2022-23).

9. The bidder must submit the Manufacturers Authentication Form (MAF) for All type of Cameras, Surveillance Management Server with Storage, SD Card, NVR, Network Active, Network Passive components, UPSs, Display and Client PC as per prescribed format enclosed (Section - N), along with Technical Compliance statements. Without these documents from the OEMs, the offer will be treated as non-responsive and summarily may be rejected.
10. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral / multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal (as per DIT guidance note issued on 26-Dec-2011). Declaration on bidder's letter head to be submitted.
11. The bidder shall submit Bid Form (Section – K) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
12. Bidder shall submit NIT Declaration (Section – R) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.

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## **SECTION – C**

### **DATE AND TIME SCHEDULE**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Date &amp; Time</b>
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	01.12.2023
2	Documents download/sale start date (Online)	01.12.2023
3	Last Date and time of sending the queries (Offline)	08.12.2023& 15.00 hrs.
4	Pre Bid Meeting (On Line)	11.12.2023 & 12.00 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	15.12.2023 & 14.00 hrs.
7	Last Date & time of submission of Earnest Money Deposit & submission of remittance details	Before Uploading of Tender
8	Last Date & time of submission of Tender Fee & submission of remittance details	Before Uploading of Tender
9	Bid Submission closing date & time (On line)	20.12.2023 & 13.00 hrs.
10	Bid opening date & time for Technical Proposals (On line)	22.12.2023 & 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)	-

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## **SECTION – D**

### **INSTRUCTION TO BIDDER**

#### **1. DEFINITIONS**

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

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

**“Installation”** Shall means installation of supplied Hardware.

**“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 the Directorate of Commercial Taxes and eventually Gov. of W. Bengal of the benefits of free and open competition.

**“Good Industry Practice”** shall mean the exercise of that degree of skill, diligence and prudence which would reasonably and ordinarily be expected from a reasonably skilled and experienced Operator engaged in the same type of undertaking under the same or similar circumstances.

**“Government” / “Gov. of W. Bengal”** means the Government of West Bengal.

**“GoI”** shall stand for the Government of India.

**“GoWB”** means Government of West Bengal

**“BDNPC”** means Bidhannagar Police Commissionerate

**“RVNL”** Rail Vikas Nigam 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 Delivery, Installation & Commissioning of Outdoor Closed Circuit Television (CCTV) Surveillance system.

**“CCTV system ”** means Closed Circuit Television

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**"Project"** Technical refreshment and enhancement of surveillance coverage area for Closed Circuit Television (CCTV) system at Airport traffic guard jurisdiction area.

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

**"Interest rate"** means "364 days Government of India (GoI) Treasury Bills" rate.

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

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

**"Operator"** means the company providing the services under Agreement.

**"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.

**"CTD"** means Directorate of Commercial Taxes, GoWB

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

**"Termination Notice"** means the written notice of termination of the Agreement issued by WTL.

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

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

**"WTL"** means Webel Technology Limited a Govt. of W. Bengal undertaking.

## 2. PRE BID MEETING

Pre Bid Meeting will be held on 11.12.2023 at 12.00 hrs. (**On-Line Meeting**). Bidder can send their queries as per format (Section - N) to Manager (Purchase) ([purchase@wtl.co.in](mailto: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](mailto: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. COST OF BIDDING

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

## 4. 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.

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## **5. 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 an 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.

## **6. MODIFICATION AND WITHDRAWAL OF BIDS**

As per the bidding process available in the tender.

## **7. 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.

## **8. BIDDER'S SOLUTION**

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

## **9. EARNEST MONEY DEPOSIT (EMD) / TENDER FEE**

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

## **10. REFUND OF EMD**

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

## **11. FORFEITURE OF EMD**

EMD made by Bidder may be forfeited under the following conditions:

If Bidder withdraws the proposal before the expiry of validity period.

During the evaluation process, if a Bidder indulges in any such activity as would jeopardize the process, the decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.

If Bidder violates any of the provisions of the terms and conditions of the proposal.

In the case of a successful Bidder, if Bidder fails to:

- a) Accept the work order along with the terms and conditions.
- b) Furnish performance security.
- c) Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
- d) Submitting false/misleading information/declaration/documents/proof/etc.

The decision of WTL regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances, besides, forfeiture of EMD even the Bidder will be deferred from participating in any job for a period of one year.

## **12. 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

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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.

## **13. 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.

## **14. CONTRACT EXECUTION**

On receipt of the Letter of Award the contractor should submit a Performance Bank Guarantee (PBG) equivalent to 3% of the total contract value within three weeks from the date of receipt of Letter of Award/Order. The PBG should be valid for six months more than the warranty period. All delivery of the material will have to be completed within 45 days from the date of acceptance of contract and the contractor has to ensure all activities leading to the commissioning of the contract to be completed within 12 weeks from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

## **15. TIME SCHEDULE FOR DELIVERY & INSTALLATION**

All delivery of the material will have to be completed within 6-8 weeks from the date of Work Order/LoI issued by WTL and installation will have to be completed within 12 weeks from the date of Order/LoI issued by WTL.

## **16. LIQUIDATED DAMAGE / PENALTY**

The job includes the supply and installation of materials mentioned in the tender document. In the event of failure to meet the job completion in stipulated date/time liquidated damage may be imposed on the contractor for sum not less than 0.5% of the contract value for that item/job for each week or part thereof, subject to a ceiling of 3% of the total contract value (excluding all taxes & duties and other charges). In the event of LD exceeds 3% of the order value, WTL reserves the right to terminate the contract and WTL will get the job completed by any other competent party. The difference of cost incurred by WTL will be recovered from the contractor and PBG will be invoked.

## **17. LIABILITY**

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

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

For any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contractor hereunder.

## **18. PATENTS & COPYRIGHT**

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

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

Remedies: If such a claim is made or appears likely to be made, WTL would permit Contractor to enable WTL to continue to use the product, or to modify it, or replace it with one that is minimum functionally equivalent. If

# **WEBEL TECHNOLOGY LIMITED**

Contractor determines that none of these alternatives is reasonably available, WTL agrees to return the product to Contractor on Contractor's written request. Contractor will then give WTL a credit equal to for a machine. WTL's net book value (provided WTL has followed generally accepted accounting principles for a generally available software product produced by Contractor (Program) the amount paid by WTL or 12 months charges (whichever is lesser) and for materials the amount paid by WTL for the materials. These will be Contractor's entire obligation regarding any claim of infringement.

## **19. SUSPENSION OF WORK**

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

## **20. TERMS OF PAYMENT**

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from relevant customer, i.e. Rail Vikas Nigam Limited. A scheduled payment terms depicted below:

60% payment will be done on procurement of material and submission of document.

30% payment will be done on installation, testing and commissioning of the project.

Balance 10%(item No 52 & 53) will be done for maintenance period of 3 years.

**On successful installation bidder to get installed equipment's with actual serial no. duly certified by respective OEM.**

## **21. GOVERNING LAWS**

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

## **22. CORRUPT OR FRAUDULENT**

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

## **23. BIDDING CLAUSE**

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

The Tender Committee reserves the right:

- To vary, modify, revise, amend or change any of the terms and conditions mentioned above and,
- To reject any or all the Tender/s without assigning any reason whatsoever thereof or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any

# **WEBEL TECHNOLOGY LIMITED**

liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for such decision.

## **24. WORKMEN'S COMPENSATION**

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

## **25. CONTRACTOR'S EMPLOYEES**

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

## **26. SAFETY MEASURES**

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

## **27. EQUIPMENT**

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

## **28. SUB-CONTRACT**

The purchaser (WTL) does not recognize the existence of Sub-Contractors. The Contractor's responsibility is not transferable.

## **29. TERMINATION FOR DEFAULT**

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

## **30. BANKRUPTCY**

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



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engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by WTL.

## **31. FORCE MAJEURE**

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

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

If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fourteen days after the occurrence of such event. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed.

The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure up to 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 for damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

## **32. INSURANCE COVERAGE**

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

## **33. WARRANTY / SUPPORT TERMS**

The OEM on behalf of bidder will warranty that products supplied under the contract are newly made and are free from defects in the design, engineering and workmanship. The Contractor would be responsible for the up keep and maintenance of the CCTV system and necessary deliverables under the scope of work during the entire warranty period, i.e. 36 months from the date of final acceptance of the system by the user or 38 months from date of delivery, whichever is earlier. Within warranty period, entrusted OEM will replace, re-integrate faulty, buggy components. The Contractor/OEM shall not, without the express prior written consent of WTL, assign to any third party of the contract or part thereof. Service support for the entire warranty period will be on site and comprehensive (including spares) and free of cost for the entire warranty period. Warranty will be invalid if the equipment is serviced by unauthorized personnel of misuse is detected.

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## **34. WARRANTY SUPPORT**

As per clause 33 and other warranty / support terms

## **35. PERFORMANCE BANK GUARANTEE (PBG)**

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

## **36. CONTRACTOR'S RESPONSIBILITIES**

Refer Section – A (Scope of Work & Responsibility)

## **37. NO WAIVER OF RIGHTS**

Neither the inspection by WTL or any of their agents nor any order by WTL for payment of money or any payment for or acceptance of the whole or any part of the works by WTL, nor any extension of time, nor any possession taken by WTL shall operate as a waiver of any provision of the contract or of any power reserved to WTL, or any right to damages here in provided, nor shall any waiver of any breach in the contract be held to be a waiver of any other subsequent breach.

## **38. GRAFTS, COMMISSIONS, GIFTS, ETC.**

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

## **39. ENFORCEMENT OF TERMS**

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

## **40. PERIOD OF VALIDITY OF OFFER**

For the purpose of placing the order, the proposals shall remain valid till 180 days. During the period of validity of proposals, the rates quoted shall not change. In exceptional circumstances, WTL may ask for extension of the period of validity and such a request shall be binding on Bidders. WTL's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

## **41. TAXES & DUTIES**

- The prices shall be inclusive of all taxes & levies including Service Tax. However, the rate of taxes should be indicated separately in the Price Bid. The Purchaser shall reimburse taxes and levies at actual as applicable at the time of delivery.
- For the purpose of the Contract, it is agreed that Contract Price specified in Financial Bid, is based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission date. If any rate of tax changes and new tax rate is introduced then it will be accessed on the Bidder in connection with the performance of the Contract, an equitable adjustment of the Contract Price or deduction there from as the case may be.
- Deduction of all statutory and necessary Tax from each bill will be made as per Government Order prevailing at the time of payment. Necessary tax deduction certificate will be issued on demand by the Company.

# **WEBEL TECHNOLOGY LIMITED**

- Bidder submitting a tender shall produce up to date VAT, Income Tax and Profession Taxes Certificate in the standard form from the Tax Authority or a Certificate that the assessment is under consideration. All such clearance certificates shall remain valid on the last date of permission.
- In case of CST billing WTL will provide "Waybill" and "C Form". Entry Tax will be borne by the bidder.

## **42. DISCREPANCIES IN BID**

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

## **43. BID DUE DATE**

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

## **44. LATE BID**

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

## **45. OPENING OF BID BY WTL**

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

## **46. CONTACTING WTL**

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

## **47. WTL'S RIGHT TO REJECT ANY OR ALL BIDS**

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

## **48. BID CURRENCIES**

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

## **49. PRICE**

- Price should be quoted in the Price Bid format only. No deviation in any form in the Price Bid sheet 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.

## **50. CANVASSING**

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

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## **51. NON-TRANSFERABILITY OF TENDER**

This tender document is not transferable.

## **52. FORMATS AND SIGNING OF BID**

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

## **53. WITHDRAWAL OF BID**

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

## **54. INTERPRETATION OF DOCUMENTS**

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

## **55. SPLITTING OF THE CONTRACT AND CURTAILMENT OF WORK**

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

## **56. PREPARATION OF TENDER**

Tender shall be submitted in accordance with the following instructions:

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

## **57. PRE-DISPATCH INSTRUCTION**

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

## **58. FINAL INSPECTION**

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

## **59. 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 minimum four days to organize such permission.

# **WEBEL TECHNOLOGY LIMITED**

## **60. ERASURES OR ALTERNATIONS**

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

## **61. COMPLIANCE WITH LAW**

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

## **62. CLARIFICATION OF BIDS**

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

## **63. QUALITY CONTROL**

- The contractor is obliged to work closely with WTL act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free WTL from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL responsible.
- The contractor will treat as confidential all data and information about the system, obtained in the execution of its responsibilities in strict confidence and will not reveal such information to any party without the prior written approval of WTL.
- 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.

## **64. SITE NOT READY**

The bidder shall not be in any manner liable for any delay arising out of Bidhannagar Police / RVNL inability to make the site ready within the stipulated period.

## **65. GENERAL TERMS**

- a) All the pages of the bid document including documents submitted therein must be duly signed and stamped failing which the offer shall be liable to be rejected.
- b) 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.
- c) No Technical/Commercial clarification will be entertained after opening of the tender.
- d) Overwriting and erasures may make the tender liable for rejection if each of such overwriting/erasures/manuscript ion is not only signed by the authorized signatory of the bidder. All overwriting should be separately written and signed by the authorized signatory of the bidder.

## **WEBEL TECHNOLOGY LIMITED**

- e) 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.
- f) 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.
- g) 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.
- h) 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.
- i) 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.
- j) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- k) 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.
- l) The customer/WTL at its discretion may extend the deadline for the submission of Bids.
- m) 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.

# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – E**

### **BID FORM**

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

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

**Sub: Supply, Installation, Testing, Commissioning & Maintenance with 3 Years Warranty Support of IP Based CCTV Surveillance system and Dedicated Fiber Optic Network Backbone Connectivity to Airport Traffic Guard under Bidhannagar Police Commissionerate Jurisdiction, West Bengal.**

Dear Sir,

1. We the undersigned bidder/(s), having read and examined in details the specifications and other documents of the subject Tender No. WTL/RVNL/CCTV/23-24/042 dated 01.12.2023, 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 180 (one hundred eighty) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipment and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit & Tender Fee: We have transferred EMD & Tender Fee amount online through e-Tender Portal.
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to ten percent (3%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

**WEBEL TECHNOLOGY LIMITED**

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

Thanking you, we remain,

Yours faithfully

.....  
Signature

.....  
Name in full

.....  
Designation

**Signature & Authorized Verified by**

.....  
Signature

.....  
Name in full

.....  
Designation

.....  
Company Stamp



# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – F**

### **TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT**

#### **1. EVALUATION PROCEDURE**

- The Eligibility Criteria (Section - B) 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 – I) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- After qualifying in Technical Specification, qualified bidders will only be considered for Financial Bid evaluation.

#### **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.

#### **3. AWARDING OF CONTRACT**

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

#### **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.

# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – G**

### **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. Copy of Remittance details of Earnest Money Deposit (EMD)
2. Copy of Remittance details of Tender Fee

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

1. NIT Declaration duly stamped & signed in letter head of bidder (Section – Q)
2. Bid Form as per format (Section – E)

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

1. Technical Specification with Compliance Statement (Section – I)
2. Manufacturer Authorization Form (Section – M)

#### **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)**

## **WEBEL TECHNOLOGY LIMITED**

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none"> <li>• GST Registration Certificate</li> <li>• PAN</li> <li>• Trade License</li> <li>• As required</li> </ul>
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> <li>• As required</li> </ul>
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> <li>• Company Profile (Not more than 3 pages)</li> <li>• As required</li> </ul>
C	CREDENTIAL	CREDENTIAL 1	Order copies as per Clause no. 4 of Section – B
		CREDENTIAL 2	<ul style="list-style-type: none"> <li>• Product brochure</li> <li>• Other documents, if any</li> </ul>
D	DECLARATION	DECLARATION 1	List of Clients as per format (Section – O)
		DECLARATION 2	Financial Capability of Bidder as per format (Section – K)
		DECLARATION 3	Bidder’s Details as per format (Section – L)
		DECLARATION 4	Details of Order Execution as per format (Section – J)
		DECLARATION 5	As required
F	FINANCIAL INFO	P/L & BALANCE SHEET 2020-2021	P/L & BALANCE SHEET 2020-2021
		P/L & BALANCE SHEET 2021-2022	P/L & BALANCE SHEET 2021-2022
		P/L & BALANCE SHEET 2022-2023	P/L & BALANCE SHEET 2022-2023

# WEBEL TECHNOLOGY LIMITED

## SECTION – H

### BILL OF MATERIAL AND CAMERA LOCATION DETAILS

#### BILL OF MATERIAL

Sr.	Item Description	Unit	Qty
1	5 Megapixel CMOS Image Sensor Bullet Camera, 2.7~13.5mm Motorized Varifocal lens, WDR, IR Range of 60 Mtr, IP 67, PoE. <b>(As per minimum technical specification)</b>	Nos	80
2	4 Megapixel CMOS Image Sensor Bullet Camera, 3.6mm Fixed lens, WDR, IR Range of 30 Mtr, IP 66, PoE. <b>(As per minimum technical specification)</b>	Nos	9
3	<b>ANPR Camera</b> - 4 Megapixel CMOS Image Sensor Enforcement Network Camera, WDR (90 dB), IP67. <b>(As per minimum technical specification)</b>	Nos	4
4	<b>PTZ Camera</b> - 2 Megapixel 45x CMOS Sensor IR PTZ Network Camera, Powerful 45x optical zoom, Auto tracking, IR distance up to 250m, IP67, IK10. <b>(As per minimum technical specification)</b>	Nos	1
5	Pole Mount PTZ Camera Fixing Bracket	Nos	1
6	24V AC 5 Amp Power Supply for PTZ Camera	Nos	1
7	3 Axis Camera Bracket for ANPR Camera	Nos	4
8	2 Lane Cantilever Arm with Pole for ANPR Camera	Nos	1
9	3/4 Lane Gantry for ANPR Camera	Nos	1
10	General Surveillance Management Server. <b>(As per minimum technical specification)</b>	Nos	1
11	16 Bay Video Storage Device with 10TB Capacity for each HDD support	Nos	1
12	10 TB SATA Enterprise HDD	Nos	12
13	Base License Video Monitoring Software. <b>(As per minimum technical specification)</b>	Nos	1
14	Surveillance Camera Connection License	Nos	90
15	ANPR Camera Connection License	Nos	4
16	<b>8 Ethernet Port PoE Switch</b> - 8 Port 10/100/1000BaseT PoE Ports & 2x Gigabit SFP 10/100/1000BaseT ports. PoE Power Budget 130W, 0°C~50°C operating temperature. <b>(As per minimum technical specification)</b>	Nos	26
17	<b>Customize Rack</b> - Indoor / Outdoor Network / Customized Rack with Fan & other accessories. <b>(As per minimum technical specification)</b>	Nos	26
18	600VA Offline UPS. <b>(As per minimum technical specification)</b>	Nos	26
19	3 KVA/2.4kW 1-Phase Input / 1-Phase Output with IGBT Rectifier. <b>(As per minimum technical specification)</b>	Nos	2
20	120 Mins Backup 12 V, 65 ah AH of SMF Battery with battery Rack with interconnecting cable	Nos	12

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21	Layer-3 Fully Managed Switch having 24 X 10/100/1000 BaseT Copper Ports with 4x combo 1G SFP slots & 4 x 10G SFP+ Slots. <b>(As per minimum technical specification)</b>	Nos	1
22	Layer-3 Fully Managed Switch having 24 X 1Gbps SFP slots with 4x combo 10/100/1000 BaseT ports & 4 x 10G SFP+ Slots. <b>(As per minimum technical specification)</b>	Nos	1
23	49" UHD 4K Display, Operation Hours 24. <b>(As per minimum technical specification)</b>	Nos	4
24	Client Monitoring PC - Latest Generation Intel Core i7 processor, 32 GB DDR4 RAM, Dedicated Non-Shared 4 GB NVIDIA Graphics Card, Operating System Latest, 64 Bit Installed. <b>(As per minimum technical specification)</b>	Nos	4
25	Wireless Key Board and Mouse with USB Extension Cord	Nos	4
26	4K 5 Meter Length DP Cable with Mini DP Convertor	Nos	4
27	42U, 800mm Width x 1000mm Depth, Floor Standing Rack. <b>(As per minimum technical specification)</b>	Nos	1
28	24 Port Rack Mount LIU Fully Loaded with Single Mode LC Adapters. <b>(As per minimum technical specification)</b>	Nos	1
29	1 GB SM Duplex Fiber Optic Transceiver (For Core Switch) (up to 10km, support) <b>(As per minimum technical specification)</b>	Nos	64
30	10 GB SM Duplex Fiber Optic Transceiver (For Core Switch) (up to 10km, support) <b>(As per minimum technical specification)</b>	Nos	4
31	LC - LC SM FO Patch Cord 5 Meter Length <b>(As per minimum technical specification)</b>	Nos	42
32	LC - LC SM FO Patch Cord 2 Meter Length <b>(As per minimum technical specification)</b>	Nos	2
33	Splicing Charge for OFC Cable	Nos	1
34	Balloon Type Termination Junction Box (TJB)	Nos	40
35	Double Pole 10 Amp Miniature Circuit Breaker with 5 Amp Socket and Gang Box	Nos	26
36	8 Span Double Door DB Box with 32 Amp MCB 1 No. and 6 Amp MCB 3 Nos. <b>(As per minimum technical specification)</b>	Nos	2
37	RJ-45 Connector	Nos	200
38	Outdoor UTP CAT-6 Cable <b>(As per minimum technical specification)</b>	Meter	6100
39	4 sq MM FRLS Multistand Power Cable (3 Different Color x 90 Meter Each)	Meter	540
40	3 Core 1.5 sq MM Non Armoured Power Cable	Meter	3500
41	20 MM Non ISI PVC straight Pipe or 3/4" PVC Cassing with all accessories for Outdoor Wiring	Meter	7500
42	Overhead and Surface Cable Laying Charge	Meter	10140
43	UTP CAT-6 Patch Cord 2 Meters	Nos	10
44	Wall / Pole Mount Outdoor Camera Bracket for Bullet, ANPR, & PTZ Camera	Nos	95

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45	7 Meter Height G.I Pole with Base Plate & Top Cover including RCC foundation with Installation.	Nos	5
46	2 Ton Split Inverter AC 3 Star Copper	Nos	2
47	24 X 7 Automatic Changeover switch for Control Room	Nos	1
48	Installation of AC Machine with 3 Years' service contract	Nos	2
49	32 Amp MCB with 2 Nos. 16A Power Socket	Nos	2
50	24 Core Fiber Optic Cable - 24 Core Single Mode Armoured Optical Fibre Cable. <b>(As per minimum technical specification)</b>	Meter	12500
51	Overhead Fiber Optic Cable Laying Charge	Meter	12500
52	OFC Backbone Maintenance Charge for 3 Years	Meter	12500
53	Supply, Installation, Testing, Commissioning & Project Management Cost During 3 Years Warranty Period.	LS	1

# WEBEL TECHNOLOGY LIMITED

## SECTION – I

### TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT

(Tender No. WTL/RVNL/CCTV/23-24/042)

#### Minimum Technical Specification

5 MP IR Vari-Focal Bullet Network Camera				
<b>Make:</b>				
<b>Model:</b>				
Sl no.	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/2.7" CMOS Sensor or Better		
2	Resolution	Minimum 2960 (H) × 1668 (V) or Higher		
3	Scanning System	Progressive		
4	Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		
5	Min. Illumination	0.0009 lux@F1.5(Color, 30 IRE) or Better		
		0.0005 lux@F1.5(B/W, 30 IRE) or Better		
		0 lux (Illuminator on)		
6	S/N Ratio	>56 dB		
7	Illumination Distance	60 meter or Better		
8	Illuminator On/Off Control	Auto; Zoomprio; Manual		
9	Lens Type	Motorized vari-focal		
10	Focal Length	OEM fitted 2.7 mm–13.5 mm or Better		
11	Iris Control	Auto		
12	Smart Object Detection	Smart abandoned object; smart missing object		
13	Heat Map	Should Support		
14	Professional, intelligent			
15	IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		
16	Support Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard)		

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17	Support People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management		
18	Video Compression	H.265 & H.264		
19	Video Frame Rate	Main stream: 2960 × 1668@(1-25/30 fps) or Better		
		Sub stream: D1@(1-25/30 fps) or Better		
		Third stream: 1080p@(1-25/30 fps) or Better		
		Fourth stream: 720p@(1-25/30 fps) or Better		
20	Stream Capability	4 streams or Higher		
21	Resolution	5M (2960 × 1668); 5M (2880 × 1620); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536);3M (2304 × 1296);		
22	Day/Night	Auto (ICR)/Color/B/W		
23	BLC	Should Support		
24	HLC	Should Support		
25	WDR	120 dB or Higher		
26	Scene Self-adaptation (SSA)	Should Support		
27	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
28	Gain Control	Auto; manual		
29	Noise Reduction	3D NR		
30	Motion Detection	Should Support		
31	Region of Interest (RoI)	Should Support		
32	Image Stabilization	Should Support		
33	Defog	Should Support		
34	Mirror	Should Support		
35	Image Rotation	Should Support		
36	Privacy Masking	Should Support		
37	Audio	Built-in MIC		



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38	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; input error; voltage detection; face detection; people counting in area; stay detection; people counting; people number error detection; queue management; intensity change		
39	SDK and API	Yes		
40	Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
41	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; RTP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; UPnP; NTP; Multicast; ICMP; IGMP; PPPoE; SNMP		
42	Interoperability	ONVIF (Profile S/Profile G/Profile T)		
43	Storage	FTP; SFTP; Micro SD card (support minimum 256 GB); NAS		
44	Mobile Client	iOS; Android		
45	Operation Temperature / Humidity	0 °C to 60 °C / Less than 95% RH		
46	Weather Proof Standard	IP67 rated weather proofing standards or better		
47	Vandal Proof	Vandal Resistance IK10 or better		
48	Certifications	CE, FCC, UL & BIS		
49	Make / Brand	Any globally reputed Manufacturer presence in India & having manufacturing facility in India.		

### 4 MP IR Fixed-Focal Bullet Network Camera

<b>Make:</b>				
<b>Model:</b>				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/3" Progressive CMOS or Better		
2	Resolution	Minimum 2592 (H) × 1944 (V)		
3	Scanning System	Progressive		

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4	Electronic Shutter Speed	Auto/Manual 1/3 s-1/100000 s		
5	Min. Illumination	0.008 Lux@F1.6 or Better		
		0 lux (Illuminator on)		
6	S/N Ratio	>56 dB		
7	IR Illumination Distance	30 meter or Better		
8	Illuminator On/Off Control	Auto / Manual		
9	Lens Type	Fixed-focal		
10	Focal Length	OEM fitted 3.6 mm or Better		
11	Iris Control	Auto		
12	<b>Professional, intelligent</b>			
	IVS (Perimeter Protection)	Support Intrusion, tripwire		
	Face Detection	Support Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes		
12	Video Compression	H.265 & H.264		
13	Video Frame Rate	Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) or Better		
		Sub stream 1: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) or Better		
14	Stream Capability	2 streams or Higher		
15	Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048×1536); 3M (2304×1296)		
16	Bit Rate Control	CBR/VBR		
17	Day/Night	Auto(ICR)/Color/B/W		
18	BLC	Should Support		
19	HLC	Should Support		
20	WDR	120 dB or Higher		
21	White Balance	Auto; natural; street lamp; outdoor; regional custom		
22	Gain Control	Auto		
23	Noise Reduction	3D NR		
24	Motion Detection	Should Support		
25	Region of Interest (RoI)	Should Support		
26	Image Stabilization	Should Support		
27	Mirror	Should Support		
28	Image Rotation	Should Support		
29	Privacy Masking	Should Support		

## WEBEL TECHNOLOGY LIMITED

30	Alarm Event	No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception.		
31	SDK and API available	Yes		
32	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; PPPoE; SNMP.		
33	Interoperability	ONVIF (Profile S/Profile G/Profile T)		
34	Storage	Micro SD card (support minimum 256 GB)		
35	Mobile Client	iOS; Android		
36	Operation Temperature / Humidity	0 °C to 60 °C / Less than 95% RH		
37	Weather Proof Standard	IP67		
38	Certifications	FCC, CE, UL & BIS		
39	Make / Brand	Any globally reputed Manufacturer presence in India.		

### 2 Megapixel 45x CMOS Sensor IR PTZ Network Camera

<b>Make:</b>				
<b>Model:</b>				
Sl no.	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Image Sensor	1/2.8" CMOS or Better		
2	Effective Pixels	1920(H) x 1080(V) or Better		
3	Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)		
4	Focal Length	The Camera should be provided with an OEM fitted 3.95~177.7mm of focal length or Better		
5	White Balance	Auto / Indoor / Outdoor /Tracking / Manual / Sodium lamp / Natural / Street lamp		
6	Gain Control	Auto / Manual		
7	Electronic Shutter	1/1s~1/30,000s or Better		
8	Focus Control	Auto/Semi-Auto/Manual		
9	Back Light Compensation	BLC , HLC , WDR(120dB)		

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10	Optical Zoom	45x or Higher		
11	Digital Zoom	16x or Higher		
12	Pan/Tilt Range	Pan: 0°-360°; Tilt: -20°-+90°		
13	Manual Control Speed	Pan: 0.1°/s-260°/s; Tilt: 0.1°/s-120°/s		
14	Pre-set Speed	Pan: 300°/s; Tilt: 200°/s		
15	Pre-sets & Pattern	300 Pre-set, 5 Pattern, 8 Tour, Auto Pan , Auto Scanner More		
16	Special Features	Defog		
17	IR Illumination Distance	250 meter or Better		
18	Privacy Masking	24 Areas or More		
19	Power-off Memory	Should Support		
20	Speed Adjustment	Should Support		
21	Idle Motion	pre-set / Tour / Pattern / Scanning		
22	Day/Night	Should Support		
23	Video Compression	H.265 & H.264		
24	Video Streaming	Main stream: 1080P/1.3M/720P (1-50/60 fps) Sub stream 1: D1/CIF (1-25/30 fps) Sub stream 2: 1080P/1.3M/720P (1-25/30 fps)		
25	Streaming Method	Unicast / Multicast		
26	Audio Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2		
27	Two-way Audio	Should Support		
28	Motion Detection	Should Support		
29	ROI	Should Support		
30	Interoperability	ONVIF Profile		
31	Auto Tracking	Should Support		
32	IVS	Object Abandoned / Missing etc.		
33	Audio Input / Output	1 In / 1 Out		
34	Networking	RJ-45, RS485		
35	Protocols	IPv4; IPv6; HTTP; TCP; UDP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; PPPoE; SNMP.		
36	Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly.		
37	Alarm	2/2 channel In/Out		
38	Storage	Support Micro SD card (256 GB)		
39	Operating Temperature	0°C ~ 70°C / Less than 95% RH		

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40	Protection	IP67; IK10; TVS 8000V lightning protection; surge protection; voltage transient protection or better		
41	Power Source	AC24V, PoE+ Both Support		
42	Certifications	FCC, CE, UL & BIS		
43	Make / Brand	Any globally reputed Manufacturer presence in India.		

### ANPR Camera

<b>Make:</b>				
<b>Model:</b>				
Sl no	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Main Processor	High performance embedded processor to extract and analyse vehicle metadata		
2	Starlight Technology	It should support starlight function with high sensitivity to give better image/video quality from day one to give.		
3	Image Sensor	1/1.8" CMOS or Better		
4	Lens	Built-in 10 mm–40 mm motorized vari-focal lens or Better		
5	Shutter Mode	Single shutter		
6	Electronic Shutter Speed	1/25 s–1/100000 s (manual/auto) or Better		
7	Exposure Mode	Full auto, customized auto, customized		
8	Iris Control	Fixed iris/manual iris/auto iris/P iris		
9	Image Resolution	2688 × 1520 or Higher		
10	Video Resolution	4M (2688 × 1520)/1080P (1920 × 1080)/UXGA (1600 × 1200)/720P (1280 × 720)/D1 (704 × 576)/CIF (352 × 288)		
11	Video Frame Rate	Maximum 25fps; main stream (2688 × 1520@25fps), sub stream (1600 × 1200@25fps)		
12	Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG		
13	Picture Encoding Format	JPEG		
14	WDR	Minimum 90dB		
15	White Balance	Auto/outdoor/manual/local white balance/natural light/street light		
16	Noise Reduction	2DNR/3DNR		
17	HLC	Should Support		
18	Bad Pixel Correction	Should Support		

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19	Edge Enhancement	Should Support		
20	Storage	Support SD card (Minimum 256GB)		
21	Image Tampering Prevention	Should Support Watermark and verification are available for videos and pictures		
22	Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control		
23	License Plate Recognition	Adopts self-developed algorithm to recognize license plates combining numbers and letters		
24	Vehicle Type Recognition	Should Support		
25	Vehicle Color Recognition	Should Support		
26	Motor Vehicle Violation Capture	Should Support		
27	Traffic Flow Detection	Should Support Statistics of vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, road status, and more; statistics can be exported in Excel		
28	Traffic Event Detection	Should Support Parking violations of motor vehicles, wrong-way driving, and traffic ongestion		
29	Video Metadata	Should Support Motor vehicle: License plate, vehicle type, vehicle color, license plate color, vehicle logo, and more. Non-motor vehicle: Type (two-wheelers, three-wheelers), color, wearing a helmet or not, passenger (1, 2, 3, or more passengers)		
30	Face Detection	Face cutout of driver and front-seat passenger of motor vehicles, and non-motor vehicle driver		
31	Vehicle recognition rate	≥95%		
32	Network	1 RJ-45 Ethernet port, 10/100/1000M Network transmission		
33	Alarm Input & Output	3 channels In & 2 channels Out		
34	Audio Input & Output	1 channels In & 1 channels Out		
35	Illuminator Number	4 illuminators (850nm IR LED illuminators, brightness adjustable)		
36	Power Supply	12V DC, 36V DC, PoE		
37	Operating Temperature	0°C to +65°C		
38	Protection Grade	IP67 or Better		
39	Certification	FCC, CE, UL & BIS		
40	Make / Brand	Any globally reputed Manufacturer presence in India.		

## WEBEL TECHNOLOGY LIMITED

### General Surveillance Management Server

**Make:**

**Model:**

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Processor	Intel Xeon-Silver 4216 Processor or Better		
2	No. of Core	16 Core or Higher		
3	Processor speed	2.1 GHz or Higher		
4	Operating System	Microsoft Windows Server 2019 / 2022 Standard loaded		
5	Generation	Gen10 or latest		
6	HDD	2 x 480GB SATA / SSD		
7	Power	500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
8	Storage controller	Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller		
9	Memory, standard	64 GB DDR4-2933 CAS or better		
10	Mouse	Optical Mouse		
11	Keyboard	Keyboard		
12	Ethernet	Ethernet 1Gb X 4-port 331T Adapter or Better		
13	Mounting	1x CMA for rail kit		
14	Make / Brand	Any globally reputed Manufacturer presence in India.		

### 16 Bay Video Storage Device

**Make:**

**Model:**

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Main Processor	64-bit high-performance Intel processor or Higher		
2	Memory	Minimum 4GB		

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3	Operating System	Embedded LINUX / Windows		
4	Video Stream Mode	640Mbps incoming and recording, 320Mbps forwarding, 64Mbps playback		
5	IP SAN Mode	Storage bandwidth $\leq 2.7$ Gbps Write-through: 320Mbps; Write-back: 480Mbps		
6	Storage	Should Support 16 HDDs, 10TB or higher capacity for each SATA HDD.		
7	miniSAS	1 miniSAS ports, for storage extension		
8	HDD Installation	Additional HDD bracket, HDD hot-swap, HDD online replacement		
9	HDD Mode	Single, RAID 0/1/5/6/10/50/60, hot spare		
10	HDD Manager	Non-working HDD hibernation to guarantee sound ventilation, reduce power consumption and enhance HDD life span HDD bad track mapping to enhance HDD life span		
11	RAID Rebuild	Dynamically adjust RAID rebuild speed to guarantee system load balance		
12	Logic Volume Manager	Support iSCSI volume management, NAS(SMB/NFS/FTP) volume management		
13	Snapshot	Support snapshot function, create user volume to back data.		
14	Extract Frame	Support extracting P frame function. Customized extracting period and frame rate setup		
15	Cluster Service	N+M cluster service		
16	ANR	After disconnection, system can download the record file from the SD card on the network camera to maintain the full record file.		
17	Interface	2 data RJ-45 ports (10/100/1000Mbps)		
18	Network Mode	Multi-address, Fault-tolerance, Load balance, Link aggregation		
19	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTP, RTCP, RTSP, UDP, SMTP, NTP, DHCP, DDNS, IP Filter, PPPoE, DDNS, iSCSI, SMB, NFS, FTP.		
20	Interoperability	ONVIF		
21	Power Supply	AC100V ~ 240V, 1 + 1 Redundant power		
22	Working Conditions	0°C ~ +40°C		
23	Certification	FCC, CE, UL & BIS		
24	Make / Brand	Any globally reputed Manufacturer presence in India.		



# WEBEL TECHNOLOGY LIMITED

Central Video Monitoring Software			
<b>Make:</b>			
<b>Model:</b>			
Sl. No	Feature	Compliance (Yes/No)	If any deviation (Yes/No)
1	Video Management Software with high scalable design and distributed deployment, easily expand the supported channels to 20,000 and central storage capacity to 4 PB. The multi-site function allows to incorporate multiple VMS platforms into one, and conveniently show their information on one PC client. With hot standby and N+M redundancy. Available access live and recorded videos, real-time and historical events. AI capabilities that devices have, such as face recognition, automatic number plate recognition and video metadata, etc.		
2	VMS Shall be based on Microsoft windows OS.		
3	VMS shall be open to IP & Analog camera integration in that respects VMS should support IP Cameras from Multiple OEM.		
4	The VMS shall be ONVIF compliant.		
5	VMS shall be open to any standard storage technologies integration.		
6	VMS shall support H.264 and MJPEG stream for both live view and Recording independently. Compression rate shall be manageable.		
7	The Video Management System shall support cameras with resolutions ranging from Standard Definition, High Definition (HD) and higher resolution		
8	The Video Management System shall show video across 4 displays per workstation - each display can have up to 25 viewing panes.		
9	VMS shall be able to integrate with video wall controller. Bidder shall provide their SDK to ensure its seamless integration with any other system.		
10	Users shall be able to move any image from one display screen to another via drag-and-drop		
11	The VMS shall allow the overlay of time and date information on live video panes, either on all panes, or selected pane only.		
12	The VMS shall allow users to view live video and review recorded video at the same time		
13	Users shall be able to digitally zoom and also digitally scroll live video from any camera using the mouse wheel		
14	Users shall be able to replay currently viewed live video for replays from 10, 15 or 30 seconds before current time or from alarm time.		
15	The VMS shall allow users to reset the event count for a camera It should be able to display camera information in the On Screen Display (OSD).		
a.	Camera name		
b.	Date and time		

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16	VMS Should Support GIS map i.e (Google)		
17	VMS shall be accessible using any Standard Web browser (Safari, Firefox, Internet Explorer, Chrome, etc) for Live view and Archive search		
18	VMS should support the two-way audio so that users shall be able to listen audio from multiple cameras through PC speakers and may speak to one or more cameras through a PC microphone		
19	VMS Shall support static assigned IP address or shall obtain IP address from DNS/ DHCP and should support IPv4 & IPv6.		
20	VMS shall allow managing initial client logon, system configurations, logging, remote administration of recording servers, devices, security, rules, alerts and logging.		
21	VMS shall support at least 3 levels of users with various privileges to access the system functionality. Each category of users shall have selectable rights to perform various operations like Camera add/delete, Change camera settings, Configure storage, Control PTZ cameras, User management, etc		
22	VMS shall maintain a continuous log of server status messages, Camera connectivity, Storage status, Recording ON/OFF, User activity logs , etc which shall be accessed from the Workstations using different filters		
23	Each video streams shall be individually and independently configurable in term of resolution, frames and bandwidth		
24	VMS shall support video streams up to at least 25/30fps		
25	VMS shall support at least CIF, 2CIF, 4CIF/D1 and HD/Megapixel resolution		
26	PTZ Control	All PTZ control shall be user-restricted	
		Users shall be able to zoom a PTZ camera in or out using the PC mouse	
		Users shall be able to pan, tilt and zoom a PTZ camera displayed in a video pane or monitor using a joy stick on one of the supported CCTV keyboards	
		Users shall be able to adjust the iris of a PTZ camera using the on screen PTZ controls or a CCTV keyboard:-Open iris-Close-Auto-iris	
		The Video Management System shall support the following for cameras using the ONVIF interface or Camera Gateway	
		a. Pan, tilt and zoom control with mouse and joystick	
		b. Go to preset	
		c. Set preset	
27	VMS shall have the capability to enable the end-user to define areas for each camera view		

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28	The VMS shall have the capability of operating in an environment that requires multi-tasking, when using multiple cameras spread over a wide area		
29	VMS should have Pre and Post Event Recording		
30	VMS should have Latest Motion Detection technology		
31	Software provides remote interface with a full live feed view, with digital zoom options, control of PTZ cameras, multiple simultaneous feeds, and image quality settings to improve performance through bandwidth reduction		
32	Software has built in feature to bring camera observation to mobile devices (require a software on a mobile device to view)		
33	Each camera setting can be adjusted individually according to client's requirement		
34	Schedule operation - All cameras can be fully scheduled individually		
35	View and record multiple cameras		
36	As many playback sessions as are required can be displayed at once		
37	Automatic control of supported PTZ cameras		
38	Alerting by email (with images)		
39	Built around a modular system of components		
40	Software should have built in feature to bring camera observation to mobile devices (require a software on a mobile device to view)		
41	The software shall allow:		
A	Live display of cameras.		
B	Live display of camera sequences.		
C	Control of PTZ cameras.		
D	Playback of archived video.		
E	Retrieval of archived video.		
F	Instant Replay of live video.		
G	Configuration of system settings.		
H	Configuration and programming of P/T/Z cameras, features like camera addressing, BLC, auto tours, presets etc.		
I	Video Analytics		
J	Use of site maps.		
42	The software should be able to do video recording on any of the following options - inbuilt hard disks on the server, direct attached storage boxes attached to servers, network attached storage, storage area network.		

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43	The software should be capable of handling camera and alarm icons on area maps. The area map should be configurable to pop up upon the receipt of an alarm received from a camera on the map. This can be on the same or other monitors on the PC.			
44	The software shall be able to select the required recording based on the time recording was activated, the duration of recording, operator activated recording, event activated recording, scheduled recording.			
45	It shall be possible to search for recordings in the software by camera, date and time. If a data and time is specified, playback shall commence from that date and time. It shall be possible to playback more than one camera simultaneously.			
46	It Software shall allow operators to bookmark the concern videos & browse through a list of all bookmarks created on the system and select any bookmarked event for viewing. Software shall support industry standard for the interface of IP-based physical security products: ONVIF and shall be based on a server/client model.			
47	VMS should use two independent streams Camera or IP encoders: One for Live View and other for recording. All settings for each stream including resolution, codecs, frame rate and compression level may be choose independently without affection overall system performance and IP device functionality.			
48	Software shall have the capacity to communicate with IP Cameras / Encoders using HTTPS secure protocol. It shall support any form of IP network connectivity, including: LAN, WAN, VPN, Internet, and Wireless technologies.			
49	All audio streams supplied from IP Camera / Encoders shall be digitally encoded in g711 (u-law), g721, g723 or AAC compression formats and recorded simultaneously in real time.			
50	Software shall offer redundant architecture. Roles shall move from one server to another without disturbing the regular operations. To minimize network traffic, Software must have ability to configure the key frame interval (I-frame) per second.			
51	All video streams supplied from IP cameras / Encoders shall be digitally encoded in MPEG-4/MPEG-2/MJPEG and H.264 compression formats and recorded simultaneously in real time			
52	Each camera's bit rate, frame rate and resolution shall be set independently and changing these settings will not affect the recording and display settings of other cameras.			
53	Software shall support dynamically switch the video resolution according to the Tile Size on Monitoring Screen. High Resolution Video feed while watching single camera on screen and Low Resolution Video feed while watching Cameras in Multiple tiles.			
54	ANPR	Real-time license plate recognition Vehicle passed record Generates vehicle trajectory based on license plate and time info. Search arming record		
55	Vehicle Blacklist	Vehicle Blacklist management Vehicle blacklist arming and disarming Import and export vehicle blacklist		

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56	Devices	Should Support Minimum 2,000 devices Per Server		
57	Auto-Registered Devices	Should Support Minimum 1,000 devices Per Server		
58	Video Devices and Channels	Should Support Minimum 1,000 devices; 2,000 channels Per Server		
59	Devices Added by ONVIF Protocol	Should Support Minimum 1,000 devices; 2,000 channels		
60	ANPR Channels	Should Support Minimum 500 channels		
61	Face Recognition Devices and Channels	Should Support Minimum 100 devices; 500 channels		
62	Video Metadata Channels	Should Support Minimum 500 channels		
63	MPT Devices	Should Support Minimum 100 devices		
64	EEC Devices	Should Support Minimum 64 devices		
65	MDVR/MNVR	Should Support Minimum 100 devices; 800 channels		
66	Access Control Devices and Lift Control Devices	Should Support Minimum 500 devices; 1,000 channels		
67	Access Control Devices	Should Support Minimum 500 devices; 1,000 doors		
68	Lift Control Devices	Should Support Minimum 500 devices; 1,000 channels		
69	VDP	Should Support Minimum 2,000 devices		
70	Alarm Controllers	Should Support Minimum 100 devices; 1,000 zones		
71	EAS Alarm Channels	Should Support Minimum 2,000 channels		
72	Security Screening Machines	Should Support Minimum 20 devices		
73	Walk-through Metal Detectors	Should Support Minimum 60 devices		
74	Radars	Should Support Minimum 20 devices		
75	Parking Space Detectors	Should Support Minimum 500 devices; 1,500 parking spaces		
76	Parking Space Available Displays	Should Support Minimum 150 displays		
77	People Counting Channels	Should Support Minimum 100 channels		
78	Heat Map Channels	Should Support Minimum 100 channels		
79	Sites	Should Support Minimum 100 sites		
80	Devices per Site	Should Support Minimum 10,000 devices; 20,000 channels		
81	Total Devices	Should Support Minimum 10,000 devices; 20,000 channels		

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82	POS Channels	Should Support Minimum 100 channels		
83	Total Incoming Bandwidth	Should Support Minimum 600 Mbps		
84	Incoming Video Bandwidth	Should Support Minimum 600 Mbps		
85	Incoming Picture Bandwidth	Should Support Minimum 200 Mbps		
86	Total Outgoing Bandwidth	Should Support Minimum 600 Mbps		
87	Outgoing Video Bandwidth	Should Support Minimum 600 Mbps		
88	Outgoing Picture Bandwidth	Should Support Minimum 200 Mbps		
89	Total Storage Bandwidth	Should Support Minimum 600 Mbps		
90	Video Storage Bandwidth	Should Support Minimum 600 Mbps		
91	Picture Storage Bandwidth	Should Support Minimum 200 Mbps		
92	Prerecording Bandwidth for Alarm Recordings	Should Support Minimum 400 Mbps		
93	Maximum Capacity of Central Storage (IPSAN)	Should Support Minimum 400 TB		
94	Total Events	Should Support Minimum 300 per second		
95	Storage of Events or Alarms without Pictures	Should Support Minimum 300 per second		
96	Alarms with Snapshots (Stored on Devices)	Should Support Minimum 300 per second		
97	Access Control Events	Should Support Minimum 300 per second		
98	Number of Combined Events	Should Support 100 events per second		

### Client Workstation PC

<b>Make:</b>				
<b>Model:</b>				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Form factor	Tower Type		
2	Operating System	Windows 11 or Latest OS for Workstations 64 Bit Installed		
3	Processor & Chipset	Latest Generation Intel i7 - 12700 processor, 2.1 GHz Turbo Boost Technology or Latest		
4	RAM	32 GB DDR4-3200 SDRAM or better		
5	Graphics Card	NVIDIA (4 GB dedicated) or Equivalent		
6	Storage	1 TB Sata HDD & 512 SSD		

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7	Mouse	Wireless Optical Mouse		
8	Keyboard	Wireless Keyboard		
9	Network	Onboard Gigabit (10/100/1000 Mbps) Ethernet Controller		
10	Make / Brand	Any globally reputed Manufacturer presence in India.		

<b>8 Ethernet Port PoE Switch</b>
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<b>Make:</b>				
<b>Model:</b>				
Sl. No	Technical Specification		Compliance (Yes/No)	If any deviation (Yes/No)
1	No of Ports	8 10/100/1000 Base-T PoE ports & 2 Gigabit SFP ports		
2	Switching Capacity	20 Gbps or Better		
3	Forwarding Rate	Minimum 14.80 Mbps		
4	POE / POE+	IEEE 802.3af and 802.3at		
5	POE Power Budget	Minimum 130 W or Higher		
6	Power Supply	AC: 100V -240V, 50Hz ±10%		
7	Environment	Operating temperature/ Humidity: 0°C-45°C, 10%-90% non-condensation		
		Storage temperature/ Humidity: -20°C-70°C; 5%-95% non-condensation		
		Power Saving by: Link status, LED or Port Shutoff		
8	MAC Switching	Static configuration and dynamically learning of MAC address		
		Check and delete MAC address		
		Configuring of MAC address aging time		
		Up to 256 Static MAC entries		
		Limit on MAC address learning number		
		MAC address filtering function		
		MAC address size 8K		
9	Port Mirroring	One-to-One, Many-to-One		
		Supports Mirroring for Tx/Rx/Both		
10	V LAN	4K VLAN entries, 256 static VLAN		

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		GVRP		
		1:1 and N:1 VLAN Mapping		
		Q-in-Q		
		Private VLAN, Voice VLAN		
11	STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)		
		BPDU protection, root protection and ring protection		
12	Multicast	IGMP v1/v2/v3		
		IGMP Snooping		
		IGMP Fast Leave		
		Multicast group policy and multicast number limit		
13	IPv6	ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet		
		IPv6 Neighbour Discovery		
		MLD v1/v2		
		MLD Snooping		
14	QoS	Traffic classification of each field of L2/L3/L4 protocol headers		
		CAR traffic control		
		802.1P/DSCP priority remark		
		Multiple queuing algorithms such as SP, WRR or SP+WRR		
		WRED		
		Traffic policing and traffic shaping		
15	Security features	Identification and filtering of L2/L3/L4 based ACL		
		DOS or TCP attacks Prevention		
		Suppression of broadcast, multicast and unknown unicast packet		
		Port isolation		
		Port security, IP+MAC+port binding		
		DHCP Snooping, DHCP Option 82		
		IEEE 802.1x certification		
		Radius and Tacacs+		
16	Reliability	Static / LACP link aggregation		
17	Management and Maintenance	Console, Telnet, SSH 2.0		
		WEB based management		
		SNMP v1/v2/v3		
		TFTP		
		RMON		
18	Certification	CE, FCC, IEC-60950-1 Or latest		
19	Make / Brand	Any globally reputed Manufacturer presence in India.		



## WEBEL TECHNOLOGY LIMITED

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

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

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37	c) Binding of IP address & MAC address with the interface. Dynamic ARP Inspection. IP Source Guard. DHCPv6 Guard, IPv6 Route Advertisement Guard, IPv6 Neighbour Discovery Inspection, Duplicate Address Detection			
38	d) SSHv2 for both IPv4 & IPv6, SSL (TLS 1.2) for both IPv4 & IPv6, Port security with at least 12K MACs per port.			
39	e) Broadcast, multicast & unicast storm control.			
40	f) Protection of the CPU from protocol control packet attack.			
41	g) DHCP server screening, DHCP client filtering, ARP spoofing prevention, BPDU attack prevention, DoS attack prevention			
42	h) IEEE 802.1x -- RFC 3580, web-based access control, MAC based access control, guest VLAN, Microsoft NAP, RADIUS accounting.			
43	i) Authentication supported based on : Local data base, RADIUS server			
44	j) Web based access control for IPv6			
45	k) At least 4 level user account for management access. RADIUS & TACACS+ authentication for management access.			
	THE SWITCH SHOULD HAVE FOLLOWING MANAGEMENT FEATURE FROM DAY ONE:			
46	a) Web based -GUI (IPv4 & IPv6), CLI, telnet server & client (IPv4 & IPv6) , TFTP client (IPv4 & IPv6), FTP client (IPv4 & IPv6), SFTP server, Zmodem, SNMPv1v2cv3, Syslog, sFlow, ICMPv6.			
47	b) RMONv1 & v2, LLDP, LLDP-MED, BooTP & DHCP client supporting both IPv4 & IPv6, DHCP relay option 82, DHCP relay option 60 & 61.			
48	c) Multiple images & configurations, SNTP, debug			
49	d) 802.3ah ethernet link OAM, 802.1ag CFM, Dying gasp.			
50	e) Inbuilt power saving technique on all Gigabit RJ-45 ports, IEEE 802.3az			
51	Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability			
52	All type of switches & transceivers should be from same make.			
53	All Core switches should be from same make.			
54	Make / Brand	Any globally reputed Manufacturer presence in India.		

## WEBEL TECHNOLOGY LIMITED

### Copper Core Switch

<b>Make:</b>			
<b>Model:</b>			
Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Core Switch - Layer-3 Fully Managed Switch having 20 X 1Gbps Copper Ports with 4x combo 1G SFP slots & 4x 10G SFP+ slots		
2	SFP slots should support IEEE 802.3z & IEEE 802.3u compliant transceivers & SFP+ slots should support IEEE 802.3z & IEEE 802.3ae compliant transceivers		
3	The switch should be 19" Rack Mount size.		
	THE SWITCH SHOULD HAVE FOLLOWING BASIC FEATURE FROM DAY ONE:		
4	The switch should have RJ45/mini-USB console port for Out of band CLI management & Ethernet port for out of band IP management. It should have minimum one alarm port.		
5	The switch should have intelligent fans with sensor that provides different fan speed based on different temperature.		
6	The switch should have support for redundant power supply.		
7	The switch should have builtin hardware feature for both external event detection & alarm action		
8	The switch should have switching capacity at least 128Gbps & packet forwarding rate at least 95Mpps for 64-bytes packet size		
9	The switch should have non-blocking architecture & wire-speed performance under fully loaded condition.		
10	The switch should have virtual stacking capability of at least 25 switches in a stack.		
11	The switch should have physical stacking capability with at least 8 units per stack & at least 40Gbps of stacking bandwidth.		
12	The switch should have feature for flexible management of switch resources		
13	The switch should have 6kV Surge protection on all RJ45 access ports		
	THE SWITCH SHOULD HAVE FOLLOWING LAYER-2 FEATURE FROM DAY ONE:		
14	a) At least 64K MAC address table size. At least 1K static MAC support.		
15	b) Jumbo frame support for at least 12KB frame size.		
16	c) Flow-control features: 802.3x for full duplex & Head-of-line blocking prevention.		
17	d) UDLD or equivalent features.		

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18	e) IEEE 802.1D (STP), 802.1w (RSTP) & 802.1s (MSTP) with at least 64 MSTP instances, Root Guard or equivalent features.		
19	f) Avoidance of the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
20	g) Ethernet Ring Protection Switching (ERPS) with maximum 50milli second recovery time.		
21	h) IEEE 802.1AX & 802.3ad Link aggregation with at least 32 groups per device & at least 8 ports per groups. LACP.		
22	i) Port mirroring with at least 4 mirroring sessions. Should support Tx, Rx & both based mirroring. Should support one-to-one & many-to-one mirroring, flow based mirroring, RSPAN.		
23	j) IGMP v1 v2 & v3 snooping with at least 8000 snooping groups. Should support IGMP snooping per VLAN, host based IGMP snooping fast leave, at least 128 static IGMP groups, L2 multicast filtering		
24	k) MLD v1 & v2 snooping with at least 4000 snooping groups. Per VLAN MLD snooping. At least 128 static MLD groups.		
25	l) At least 4K VLAN groups, 802.1Q, 802.1v protocol based VLAN, Q-in-Q, GVRP with at least 4K dynamic VLANs, Voice VLAN, Port-based VLAN, MAC-based VLAN, private VLAN, VLAN trunking, MVR (Multicast VLAN Registration) or equivalent feature.		
	THE SWITCH SHOULD HAVE FOLLOWING LAYER-3 FEATURE FROM DAY ONE:		
26	a) At least 16K routing table entry size with at least 512 static route entry support.		
27	b) Default route, RIPv1, RIPv2, RIPng, OSPFv2, OSPFv3, BGPv4, BGPv4+, Policy based route, Route preference, Route Redistribution, Bidirectional Forwarding Detection, MSDP.		
28	c) Multicast forwarding table size: at least 2000, IGMPv1v2v3, MLDv1v2, IGMP filtering, static IP multicast route, PIM-DM, PIM-SM, PIM-SSM, PIM-Sparse-Dense mode, DVMRPv3, PIM-SMv6.		
29	e) IPv6 tunnelling, VRRP, IP helper		
	THE SWITCH SHOULD HAVE FOLLOWING QOS FEATURE FROM DAY ONE:		
30	a) IEEE 802.1p, DSCP, at least 8 queues per port.		
31	b) Queue handling methods: strict, weighted round robin, weighted deficit round robin, WRED		
32	c) CoS & classification of packets based on following parameters: VLAN ID, 802.1p priority, MAC address, Ether type, DSCP, protocol type, IPv4 address, TCP/UDP port number, IPv6 address, IPv6 traffic class		
33	d) Port & flow based bandwidth control with minimum granularity 8Kbps.		
34	e) Time based QoS.		
	THE SWITCH SHOULD HAVE FOLLOWING SECURITY FEATURE FROM DAY ONE:		
35	a) Access control list based on VLAN, MAC address, 802.1p priority, DSCP, protocol type, TCP/UDP port, IPv4 address, IPv6 address, IPv6 traffic class		

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36	b) Time based ACL.		
37	c) Binding of IP address & MAC address with the interface. Dynamic ARP Inspection. IP Source Guard. DHCPv6 Guard, IPv6 Route Advertisement Guard, IPv6 Neighbour Discovery Inspection, Duplicate Address Detection		
38	d) SSHv2 for both IPv4 & IPv6, SSL (TLS 1.2) for both IPv4 & IPv6, Port security with at least 12K MACs per port.		
39	e) Broadcast, multicast & unicast storm control.		
40	f) Protection of the CPU from protocol control packet attack.		
41	g) DHCP server screening, DHCP client filtering, ARP spoofing prevention, BPDU attack prevention, DoS attack prevention		
42	h) IEEE 802.1x -- RFC 3580, web-based access control, MAC based access control, guest VLAN, Microsoft NAP, RADIUS accounting.		
43	i) Authentication supported based on : Local data base, RADIUS server		
44	j) Web based access control for IPv6		
45	k) At least 4 level user account for management access. RADIUS & TACACS+ authentication for management access.		
	THE SWITCH SHOULD HAVE FOLLOWING MANAGEMENT FEATURE FROM DAY ONE:		
46	a) Web based -GUI (IPv4 & IPv6), CLI, telnet server & client (IPv4 & IPv6) , TFTP client (IPv4 & IPv6), FTP client (IPv4 & IPv6), SFTP server, Zmodem, SNMPv1v2cv3, Syslog, sFlow, ICMPv6.		
47	b) RMONv1 & v2, LLDP, LLDP-MED, BooTP & DHCP client supporting both IPv4 & IPv6, DHCP relay option 82, DHCP relay option 60 & 61.		
48	c) Multiple images & configurations, SNTP, debug		
49	d) 802.3ah ethernet link OAM, 802.1ag CFM, Dying gasp.		
50	e) Inbuilt power saving technique on all Gigabit RJ-45 ports, IEEE 802.3az		
51	Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability		
52	All type of switches & transceivers should be from same make.		
53	All Core switches should be from same make.		
54	Make / Brand	Any globally reputed Manufacturer presence in India.	

## WEBEL TECHNOLOGY LIMITED

### 600 VA Offline UPS

**Make:**

**Model:**

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Power Rating (In KVA / KW)	600VA / 360W or Better		
	<b>Input</b>			
2	Nominal Voltage	230 VAC		
3	Voltage Range	140 ~ 300 Vac (full load)		
4	Nominal Frequency	50/60 Hz		
	<b>Output</b>			
5	Voltage	230 Vac ± 10% (Battery mode)		
6	Frequency Range	50/60 Hz ± 1 Hz		
7	Waveform (Batt. Mode)	Simulated Sinewave		
8	Receptacle	India Socket x 3		
	<b>Battery</b>			
9	Battery Type & Number	12V/7 Ah x 1		
10	Recharge Time	4 ~ 6 hours to 90%		
11	Cold Start	Should Support		
	Indicator	LED		
	<b>Environment</b>			
12	Operating Temperature	0 ~ 40°C or Better		
13	Relative Humidity	0 ~ 90% (non-condensing)		
14	Audible Noise	< 40 dB		
	<b>Conformance</b>			
15	Safety	BIS		
16	Certification	ISO 9001, ISO14001, OSHAS18001, TL9000 , Factory calibration lab of manufacturer shall be NABL accredited in India		
17	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		

## WEBEL TECHNOLOGY LIMITED

### 3 KVA Online UPS

<b>Make:</b>				
<b>Model:</b>				
<b>Sl. No</b>	<b>Feature</b>	<b>Technical Specification</b>	<b>Compliance (Yes/No)</b>	<b>If any deviation (Yes/No)</b>
1	Power Rating	3kVA / 2.4kW or Better		
2	Input Voltage Range	110-300VAC		
3	Input Frequency Range	40 - 70Hz		
4	Input Power Factor	> 0.99 @ nominal voltage (input voltage)		
5	Output Power Factor	0.8		
6	Nominal Output voltage	200/208/220/230/240 VAC		
7	Output Voltage Regulation Frequency	± 1% (Battery mode)		
6	Output Crest Factor	03:01		
7	Efficiency (Min)	90%		
8	Output Socket	Output Socket. Minimum 4 nos - Indian Socket & 1 Terminal Block inbuilt to the UPS back		
9	Backup Required	Min.4680 VAH for 120min. (at 75% Load)		
10	USB Port	Should be available		
11	RS232 Port & SNMP enabled	RS232 port require & SNMP for Remote monitoring		
12	Inbuilt Automatic Bypass	Require		
13	Intelligent Battery Management	Require		
14	Battery Deep Discharge Protection	Require		
15	ECO Mode	Require		
16	Operating Temperature	0 ~ 40°C or Better		
17	Certifications	QMS: As per ISO 9001: 2008 EMS: As per ISO 14001: 2004 ISO 45001: 2018 TL9000		
18	Manufacturer	Factory calibration lab of manufacturer shall be NABL accredited in India		
19	ROHS	Require		
20	UPS Brand / Make	Any globally reputed Manufacturer presence in India.		
21	Battery Brand / Make	Any globally reputed Manufacturer presence in India.		



# WEBEL TECHNOLOGY LIMITED

## 49" Display

**Make:**

**Model:**

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Panel Technology	IPS		
2	Screen Size	Minimum 49" or Higher		
3	Aspect Ratio	16:09		
4	Native Resolution	3,840 x 2,160 (UHD, RGB) or Better		
5	Refresh Rate	60 Hz		
6	Brightness	500 nit (Typ) or higher		
7	Contrast Ratio	1,100:1 or higher		
8	Dynamic CR1)	1,000,000 : 1		
9	Response Time	8 ms(G to G)		
10	Bezel Width	9.9mm(T/R/L), 14.4mm(B) or Better		
11	Orientation	Landscape & Portrait (Optional)		
12	Input	HDMI, DP, DVI-D, Audio, USB 2.0		
13	External Control	RS232C In/Out, RJ45 (LAN) In, IR In		
14	Viewing Angle (H x V)	178 x 178 degree or Better		
15	Outputs	DP, Audio (Off/Fixed/Variable),		
16	Operation Temperature	0 °C to 40 °C or Better		
17	Operation Humidity	10 % to 80 %		
18	Power Supply	100-240V~, 50/60Hz		
19	Operating Hours	24 Hrs		
20	Safety	CB / NRTL		
21	EMC	FCC Class "A" / CE / KC		
22	ErP/ Energy Star	Yes (NewErP) / Yes		
23	Make / Brand	Any globally reputed Manufacturer presence in India.		

## WEBEL TECHNOLOGY LIMITED

### 42U Floor Mount Standing Rack

**Make:**

**Model:**

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	19", 42U x 800mm width x 1000mm depth Floor Standing Networking Rack		
2	It should confirm to DIN 41494 or equivalent ISO standard		
3	It should be welded construction with steel frame		
4	Single Lockable tough end glass front door		
5	Vented dual metal door at the back, Vented side panels		
6	Powdered coated standard finish		
7	4 sets of casters wheel		
8	4 sets of adjustable levellers		
9	Horizontal Power Distribution Unit with 12 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug		
10	Horizontal Cable Manager		
11	Mounting Hardware set		
12	At least 4nos. Of FANs (360CFM) for cooling purpose		
13	Make / Brand	Any globally reputed Manufacturer presence in India.	

### 24 Port LIU

**Make:**

**Model:**

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	24 Port Rack Mount LIU Fully Loaded with Single Mode LC Adapters & Pigtail (1Mtr)		
2	Aluminium & Cold Steel based material with powder coating for light mounting.		
3	Snap-in locker design, easy to change the adapter panels		
4	Should manage both splices and terminations		
5	Should have plastic Splice Tray capable of 24 fibers		

## WEBEL TECHNOLOGY LIMITED

6	Should have 6 fiber magic sticker provision inside for 900um tight buffered fiber storing			
7	Accessory kit consists of cable ties, mounting ear screw			
8	Front-Mounted Cable Saddles for jumper management			
9	Removable Top & Front cover for better access to interior of LIU			
10	Rubber grommet allow for pre-terminated fiber trunk installation, protects cable and minimizes dust build-up			
11	Adapter panel - Cold steel			
12	Adapters should have compact design & high precision			
13	which perform well under various circumstances & maintain good plug retention strength.			
14	Single Mode LC Pigtail - 1Mtr			
15	Utilize a UPC polishing on the tip to provide high yield during installation.			
16	Insertion Loss (Max): <0.3 db Max.			
17	Mating Cycle : 1000 Times			
18	Return Loss : >/= 50 db for UPC			
19	Connector ferrule: Ceramic			
20	Retention strength: 20N			
21	Minimum Installed Bend Radius: 30mm			
22	Operating Temp.: (- 10 deg. C to + 60 deg. C)			
23	Buffer diameter: 900um Tight buffer			
24	Types : LC Type Simplex			
25	All fiber items should be from same make.			
26	Make / Brand	Any globally reputed Manufacturer presence in India.		

### 1Gbps FO Transceiver

<b>Make:</b>			
<b>Model:</b>			
Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	1 Gbps Single Mode Fiber Optic Transceiver (For Core Switch)		
2	1000BASE-LX Single Mode SFP Transceiver with Duplex LC Connector		
3	Support IEEE 802.3z standard		
4	At least 10Km distance support on single mode fiber interface		

## WEBEL TECHNOLOGY LIMITED

5	Transceiver module should be hot pluggable. MSA Compliant			
6	TTL signal detect indicator, Metal enclosure for lower EMI			
7	Operating wavelength: 1310nm			
8	It should be of same make as Core Switches			
9	Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability			
10	All type of switches & transceivers should be from same make.			
11	All Core switches should be from same make.			
12	Make / Brand	Any globally reputed Manufacturer presence in India.		

### 10Gbps FO Transceiver

<b>Make:</b>				
<b>Model:</b>				
Sl. No	Technical Specification		Compliance (Yes/No)	If any deviation (Yes/No)
1	10 Gbps Single Mode Fiber Optic Transceiver			
2	10GBASE-LR Single Mode SFP+ Transceiver with Duplex LC Connector			
3	Support IEEE 802.3ae standard			
4	At least 10Km distance support on single mode fiber interface			
5	Transceiver module should be hot pluggable. MSA Compliant			
6	Operating wavelength: 1310nm			
7	Secure Product Development Lifecycle Process Requirement Certification in accordance with IEC 62443-4-1: 2018 standard for cyber security capability			
8	All type of switches & transceivers should be from same make.			
9	All Core switches should be from same make.			
10	Make / Brand	Any globally reputed Manufacturer presence in India.		

## WEBEL TECHNOLOGY LIMITED

### LC-LC Fiber Optic Patch Cord

**Make:**

**Model:**

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

### LC-LC Fiber Optic Patch Cord

**Make:**

**Model:**

Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	LC - LC SM FO Duplex Patch Cord 2 Meter Length		
	The optical fiber patch cords shall comply with the following specifications		
2	Optical Fiber – Single mode - OS1		
3	Connector: Zirconia ceramic ferrule		
4	Pre-radiuses and pre-polished ferrule		

## WEBEL TECHNOLOGY LIMITED

5	Duplex Type		
6	Color-coded yellow for Single mode		
7	Insertion Loss : <0.3 db		
8	Cable: 9/125, SM		
9	Return Loss: >= 50dB for UPC		
10	Durability: 1000 mating cycle		
11	Working Temp: (- 10 deg. C to + 60 deg. C)		
12	Length: 2 Meter		
13	All fiber items should be from same make.		
14	Make / Brand	Any globally reputed Manufacturer presence in India.	

### UTP CAT-6 Outdoor Cable

<b>Make:</b>			
<b>Model:</b>			
Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Category 6 Outdoor cable shall be compliant with ANSI/TIA/EIA-568-C.2 & and ISO/IEC 11801 channel performance up to 85 mtr.		
2	Category 6 Outdoor cable shall be capable of enhanced performance for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs.		
3	All Category 6 Outdoor cables shall meet or exceed the following characteristics:		
4	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, full separator. Half shall not be accepted.		
5	Category 6 Outdoor cable shall be UV Resistant		
6	Conductor dia: 23 AWG		
7	Insulation: Polyethylene		
8	Insulation Diameter : $1.04 \pm 0.05$ mm		
9	Sheath Thickness : $0.5 \pm 0.15$ mm		
10	Pairing: Two insulated conductor twisted together		
11	No.of Pair: 4 pair separated by a separator		
12	Sequential meter marking should be available		
13	Color of Jacket: Black		
14	Outer Jacket: PE		
15	Inner Jacket : PVC		

## WEBEL TECHNOLOGY LIMITED

16	Filler : Central Slit Film Cross Filler			
17	Outer Diameter : 7.1 mm			
18	BEND RADIUS: 8 X CABLE DIAMETER			
19	Thickness of Inner Jacket: 0.45 mm ± 0.05 mm			
20	Thickness of Outer Jacket : 0.55 mm ± 0.05 mm			
21	Electrical Parameters			
22	CONDUCTOR RESISTANCE (DC): 9.38Ω ohms /100mtr@20°C. MAX.			
23	RESISTANCE UNBALANCE: 5%MAX			
24	MUTUAL CAPACITANCE: 5.6 nF/100 mtrs MAX.			
25	CAPACITANCE UNBALANCE PAIR/GROUND: 330pF/100M MAX			
26	DELAY SKEW: ≤45 nS/100M			
27	NORMAL VELOCITY OF PROPAGATION: 69%			
28	IMPEDANCE: 100 ± 15% Ω			
29	Temperature Rating: (- 20 to +60 C)			
30	Packing : 305 Mtrs.			
31	Generally confirming to EIA/TIA 568-C.2 and IEC/ISO 11801			
32	All Network Cable should be from same make.			
33	Make / Brand	Any globally reputed Manufacturer presence in India.		

### 24 Core SM 9/125 Outdoor Fibre Optic Armoured Cable

<b>Make:</b>			
<b>Model:</b>			
Sl. No	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	24 Core Single Mode Outdoor Armored Fiber Optic Cable.		
2	Corrugated steel tape armoured		
3	Central loose tube with jelly compound		
4	Glass Yarns between steel tape & loose tube		
5	Sequential meter marking		
6	The fiber should fulfil the requirement of ITU-T REC G.652D		
7	Outer Diameter: 9.5 ± 0.3mm (for 24 Core Cable)		
8	Thickness of HDPE Jacket: 1.8±0.2mm		

## WEBEL TECHNOLOGY LIMITED

9	Pulling Tension: Short Term (2000N)			
10	Crush Load: 3000N/100mm			
11	Bend Radius: (20D)			
12	The fiber type is a Matched Cladding Single Mode			
13	The fiber is optimized for operation at 1310 nm and at 1550 nm.			
14	Nominal Mode Field Diameter: 9.2 μm			
15	Cladding Diameter: 125 μm			
16	PMD (ps/km): 0.2			
17	Cable Cut-off Wavelength: <= 1260nm			
18	<b>Attenuation (of cable with fibers):</b>			
	At 1310 nm: 0.36 dB/km			
	At 1550 nm : 0.22 dB/km			
19	Make / Brand	Any globally reputed Manufacturer presence in India.		

### Outdoor Weatherproof Customized Rack

<b>Make:</b>				
<b>Model:</b>				
Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Metal Guage	18 SWG or Better		
2	Colour	Off White / Gray / Cream		
3	Colour Coating	Powder Coated		
4	Dimension	As Per Requirement (Weather Proof Design with cooling arrangement)		
	(W X H X D)			
5	Lock Facility	Double Lock facility		



# WEBEL TECHNOLOGY LIMITED

## Double Door DB Box

**Make:**

**Model:**

Sl. No	Feature	Technical Specification	Compliance (Yes/No)	If any deviation (Yes/No)
1	Type	8 Way SPN MCB DB		
2	Enclosure	Double Door with IP42/43 protection		
3	Isolator	1 No. 32 Amp Double Pole (Loaded)		
4	MCB	6 Nos. 10 Amp / 6 Amp Single Pole (loaded)		
5	Supply	Single Phase 250V AC		
6	Brand / Make	Any globally reputed Manufacturer presence in India.		

- Bidder should submit all relevant data sheet/brochure of all quoted items and should also available in respective OEM's official website.
- Bidder should indicate items mentioned in the OEM data sheet / brochure by marketing as mentioned in minimum specification in the RFP

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of the Company: \_\_\_\_\_

# WEBEL TECHNOLOGY LIMITED

## SECTION – J

### TECHNICAL CAPABILITY OF BIDDER

(Tender No. WTL/RVNL/CCTV/23-24/042)

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

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of the Company: \_\_\_\_\_

**Note:**

- A. Type of Project shall indicate the implementation of services (Delivery, Installation & Commissioning of Outdoor Closed Circuit Television (CCTV) surveillance system).
- B. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- C. Submit Customer Order Copy details of the order indicating the project value, customer contact details.

# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – K**

### **FINANCIAL CAPABILITY OF BIDDER**

(Tender No. WTL/RVNL/CCTV/23-24/042)

#### **FINANCIAL INFORMATION**

<b>Sl. No.</b>	<b>Name of the Bidder</b>	<b>Turnover (Rs. / Crores)</b>		
		<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>
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 five financial years.

# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – I**

### **BIDDERS'S DETAILS**

(Tender No. WTL/RVNL/CCTV/23-24/042)

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	<p>Is the firm</p> <ul style="list-style-type: none"> <li>▪ a Government/ Public Sector Undertaking</li> <li>▪ a propriety firm</li> <li>▪ a partnership firm (if yes, give partnership deed)</li> <li>▪ a limited company or limited corporation</li> <li>▪ a member of a group of companies, (if yes, give name and address and description of other companies)</li> <li>▪ 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.</li> </ul>	
8	Is the firm registered with Sales Tax department? If yes, submit valid GST Registration certificate.	
9	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
10	Total number of employees. Attach the organizational chart showing the structure of the organization.	
11	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
12	How many years has your organization been in business under your present name? What were your fields when you established your organization	
13	<p>What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary)</p> <ul style="list-style-type: none"> <li>▪ Manufacturer</li> <li>▪ Supplier</li> <li>▪ System Integrator</li> <li>▪ Consultant</li> <li>▪ Service Provider (Pl. specify details)</li> <li>▪ Software Development</li> <li>▪ Total Solution provider (Design, Supply, Integration, O&amp;M)</li> </ul>	

## **WEBEL TECHNOLOGY LIMITED**

	▪ IT Company	
14	Number of Offices in district headquarters in West Bengal	
15	Is your organization has ISO 9001:2015 / 2018 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: \_\_\_\_\_

# **WEBEL TECHNOLOGY LIMITED**

## **SECTION – M**

### **MANUFACTURER’S AUTHORIZATION FORM**

Date:

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

Ref: Tender No.: WTL/RVNL/CCTV/23-24/042 dated 01.12.2023

Sir,

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.

When resold by \_\_\_\_\_, these products are subject to our three warranty terms.

We assure you that in the event of \_\_\_\_\_, not being able to fulfill its obligation as our Service Provider in respect of our 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 within 3 years from the day of this letter. We assure availability of spares for the products for the next two years after three years’ warranty.

We also confirm that the material will be delivered as per delivery schedule against above mentioned tender from the date of placement of confirmed order.

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.

# WEBEL TECHNOLOGY LIMITED

## SECTION – N

### FORMAT FOR PRE-BID MEETING QUERY

(Tender No. WTL/RVNL/CCTV/23-24/042)

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 cutoff date for receiving of queries before Pre Bid Meeting. Queries received after the cutoff period will not be accepted. The Purchaser reserves the right to respond all queries over e-mail.

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Company Rubber Stamp: \_\_\_\_\_





# WEBEL TECHNOLOGY LIMITED

## SECTION – P

### PROFORMA FOR PERFORMANCE BANK GUARANTEE

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

#### PROFORMA OF BANK GUARANTEE FOR SECURITY DEPOSIT –CUM-PERFORMANCE GUARANTEE

Ref ..... Bank Guarantee no.....

Date.....

#### PROFORMA OF BG FOR SECURITY DEPOSIT

KNOW ALL MEN BY THESE PRESENTS that in consideration of WEBEL TECHNOLOGY LIMITED, a Government of West Bengal Undertaking incorporated under the Companies Act, 1956 having its Registered office at Plot - 5, Block BP, Sector V, Kolkata-700 091 (hereinafter called "The Purchaser") having agreed to accept from \_\_\_\_\_ (hereinafter called "The Contractor") Having its Head Office at \_\_\_\_\_, a Bank guarantee for Rs. \_\_\_\_\_ in lieu of Cash Security Deposit for the due fulfillment by the Contractor of the terms & conditions of the Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ issued by the Purchaser for \_\_\_\_\_ (hereinafter called "the said work order \_\_\_\_\_ dated \_\_\_\_\_"). We \_\_\_\_\_ (Name & detailed address of the branch) (hereinafter called "the Guarantor") do hereby undertake to indemnify and keep indemnified the Purchaser to the extent of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only against any loss or damage caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the terms and conditions contained in the said Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ of which breach the opinion of the Purchaser shall be final and conclusive.

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

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

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

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

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

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

## **WEBEL TECHNOLOGY LIMITED**

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

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

SIGNED, SEALED AND DELIVERED

\_\_\_\_\_  
(Stamp of the executants)

WITNESS

1) \_\_\_\_\_

2) \_\_\_\_\_

(Name & address in full with Rubber Stamp)

# **WEBEL TECHNOLOGY LIMITED**

## **INSTRUCTIONS FOR FURNISHING BANK GUARANTEE**

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

**WEBEL TECHNOLOGY LIMITED**

**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 & Maintenance with 3 Years Warranty Support of IP Based CCTV Surveillance system and Dedicated Fiber Optic Network Backbone Connectivity to Airport Traffic Guard under Bidhannagar Police Commissionerate Jurisdiction, West Bengal.**

Dear Sir,

We the undersigned bidder/(s) declare that we have read and examined in details the specifications and other documents of the subject Tender No. WTL/RVNL/CCTV/23-24/042 dated 01.12.2023 for Technical refreshment and enhancement of surveillance coverage area for Closed Circuit Television (CCTV) system at the Airport Traffic Guard Jurisdiction 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, this .....day of .....2023