

WEBEL TECHNOLOGY LIMITED

NOTICE INVITING e-TENDER

Online Tender documents are invited for Supply, Installation and Commissioning of Server and Storage with Virtualization Capability and Software Licenses under State Grid Project of WB-Cyber Crime Wing (WB-CCW).

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

1.	Tender No. & Date	WTL/WB-CCW/SG/23-24/044 dated 20.12.2023
2.	Tender Version No.	1.0
3.	Brief description of material	Supply, Installation and Commissioning of Server and Storage with Virtualization Capability and Software Licenses under State Grid Project of WB-CCW
4.	Tender Fee	Rs.6000.00 (Rupees Six thousand only). The amount to be transferred online through e-tender portal.
5.	Earnest Money Deposit	Rs.12, 60,000 (Rupees Twelve Lakhs Sixty Thousand). The amount to be transferred online through e-tender portal.
6.	Date of Downloading/Sale of Tender document	20.12.2023
7.	Pre-Bid Meeting date & time	28.12.2023 at 12.00 Hrs.(On-Line Meeting) <ul style="list-style-type: none">• Pre-Bid meeting will be organizing online platform only.• Only queries as per format (Section - M) reaching WTL by 27.12.2023 at 15.00 Hrs. will be taken for decision.• Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. Queries will be sent to Manager (Purchase)(purchase@wtl.co.in)
8.	Bid Submission Start date & time	04.01.2024 at 15.00 hrs.
9.	Last date & time of EMD & Tender Fee submission intimation.	Before Uploading of Tender
10.	Last date & time of Bid Submission	11.01.2024 at 13.00 hrs.
11.	Date & time of Technical Bid Opening	15.01.2024 at 12.00 hrs.
12.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
13.	Contact person	033-23673403-06

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

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SECTION-A

SCOPE OF WORK& RESPONSIBILITY

Job title: Supply, Installation and Commissioning of Server and Storage with Virtualization Capability and Software Licenses under State Grid Project of WB-CCW.

Requirement Overview

WB-CCW likes to set up a modern fully equipped cloud enabled compute infrastructure at the Smart Connect, Newtown. This Compute Infrastructure is completely a Virtual Environment offering Computation and Storage for different Applications used by WB Police. The Setup should also be capable of providing computational power for Test and Development of any upcoming Software project.

Functional Overview

The Proposed Virtual Environment will be comprised of High Performance Blade Server based Converged Infrastructure, Enterprise Storage & Networking. This Setup will be ready for Hosting any sort of application capable of running in the virtual environment.

For System Integrator

- 1) **Supply:** Entrusted bidder must supply and implementation of the project work as per work order. Supplied components must satisfy the minimum specifications as described in Section-I against each component. The bidder should ensure against obsolescence of the quoted product minimum for next 7 years from the date of installation of the product. Bidder is allowed to propose only one make / model per system for the proposed solution. The bidder has to mention the reference in the compliance statement against each item in accordance to the data sheet / solution document uploaded by them.
- 2) **Installation, Integration & Implementation:** Bidder must Install, integrate & implement solution as per work order. Billing should be done on actual basis. Post installation warranty & AMC support are the sole responsibility of the Bidder for 5 years duration from the date of installation.
- 3) **OEM responsibility:** Bidder to include confirmation (MAF) from the respective OEMs for the products / warranty service / subscription proposed (if required) by them
- 4) **Project Management:** Selected bidder will be required to perform the following project management tasks for the assigned areas:
 - a. Provide a detailed strategy and work plan for their scope of work.
 - b. Identify and address functional / technical issues that may arise during the project.
- 5) **Support and Maintenance:** Bidder should submit detailed project implementation documentation to WTL after successful integration. Bidder will provide warranty support service for all the equipment's with back-to-back OEM support. Bidder will attend the call for any problem reported to WTL team during entire warranty period.
- 6) **Acceptance:** After successful installation & Commissioning, installation report prepared by WTL (Webel Technology Limited), **signed and sealed** with date by appropriate authority of concerned departments.
- 7) The SI should guarantee the rectification of Materials in case of any failure during the warranty period of 5 years. SI should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in West Bengal for attending the after sales service. Details of Service Centers near concerned destinations are to be uploaded along with the bid. BIDDER / OEM must have Dedicated / toll Free Telephone No. for Service Support. If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract.

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8). Payment shall be made back-to-back basis (payment will be made only on receipt of payment from relevant customer) only and after submission of documentary evidence of having Functional Service Centre.

9) On-site Comprehensive Warranty period of the supplied products shall be 5 years from the date of final acceptance of Materials or after completion of installation, commissioning & testing of Materials, at concerned location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of materials.

10) Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

11) Escalation Matrix for Service Support: Bidder must provide Escalation Matrix of Telephone Numbers for Service Support center. Installation, Commissioning, Testing, Configuration, Training (if any - whichever is applicable as per scope of supply) is to be carried out by SI,OEM Certified resource or OEM authorized Reseller.

12) The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. Bidders are bound to accept the orders accordingly with their proposed rate.

13) The successful bidder / OEM shall have to provide 5 years on-site Comprehensive Warranty during the entire warranty period as per contract. The comprehensive warranty / support maintenance / trouble shooting shall be covering under the scope of work. For attending any calls and setting any malfunction, a down time of more than 48 hours shall not be allowed and time taken beyond this permissible down time of 48 hours or 2 days shall be liable for a penalty as per the penalty clause.

14) A dedicated project manager to be assigned for the project who will act as a single point of contact between the customer (WB-CCW) and WTL and will also be involved in the day-to-day activity and monitoring of calls if required. Each call attended should be followed with call report signed by the respective court authority.

15) **Scope of supply (Bid price to include all cost components) :** Supply Installation Testing Commissioning of Materials and Training of users, Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

16) The Bidder has to submit the compliance sheet on the letterhead duly signed by the authorized signatory along with other supporting documents as per RFP. Failing to submit the same or non-compliance/deviation from any terms and conditions, eligibility criteria or technical specifications, may result in rejection of the Bid.

17) The successful bidder of each part is required to produce OEM's confirmation on OEM letterhead with Sr. nos. of product(s) supplied for back-to-back warranty support as per terms & conditions of the RFP.

18) If any equipment gives continuous trouble, for more than 3 times within one month during the warranty period or does not work at all as required, the successful Bidder shall replace the same, with new equipment having the same or higher configuration without any additional cost to the West Bengal Police.

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SECTION – B

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 evidence to be submitted.
2. The bidder should have their presence in Kolkata with own office for minimum period of five continuous years. Valid proof should be submitted along with the bid.
3. The bidder should have valid GST Registration Number & PAN. Bidder shall have to submit photocopy of the documents.
4. The bidder shall have undertaken “Similar Nature of work” of at least One (01) orders each of an amount not less than Rs.5 Crore or two (02) orders totally of an amount not less than Rs.7 Crore or Three (03) orders totally of an amount not less than Rs.9 Crore over the preceding seven financial years in Government Department /PSU/Autonomous Body /any reputed organization in the country. At least one of such projects shall have been completed during the preceding seven financial years. Reference order copies for the project to be submitted.
5. “ Similar Nature of Work “ means shall include supply, installation, operations and maintenance of infrastructure viz. Servers and Storage , Network Security Equipment pertaining to Data Centre.
6. Bidder should submit escalation matrix with all details for resolutions of technical and administrative issues.
7. The bidder should have an average annual turnover of not less than Rs.30 Crore each year in the last three financial years (considering FY – 2020-21, 2021-22, 2022-23. Bidder shall have to submit Audited Balance Sheet/Audited Accounts/Auditor Certificate in support of their claim.
8. The bidder should submit Manufacturer’s tender specific authorizations for DC Built OEM, Compute, Storage and NW Security OEM must be submitted as per format enclosed (Section - P). Authorization to be submitted on OEM’s letter head and signed by authorized signatory.
9. The Bidder must have certification for the following standards: ISO 9001:2015, ISO / IEC 27001:2013, ISO / IEC 20000-1:2018. Copy of valid Certificate to be submitted.
10. The bidder shall submit Bid Form (Section – E) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
11. The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral/multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal. Declaration on bidder’s letter head to be submitted.
12. Bidder shall submit NIT Declaration for Bidder (Section – R) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
13. Bidder shall submit details of call center and service center in Kolkata for docketing and servicing requests related to the scope of tender.

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SECTION – C

DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	20.12.2023
2	Documents download/sale start date (Online)	20.12.2023
3	Last Date and time of sending the queries (Online)	27.12.2023 at 15.00 hrs.
4	Pre-Bid Meeting at WTL Office (Online)	28.12.2023 at 12.00 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	04.01.2024 at 15.00 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)	11.01.2024 at 13.00 hrs.
10	Bid opening date & time for Technical Proposals (Online)	15.01.2024 at 12.00 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

INSTRUCTIONSTOBIDDER

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/Confirm Work Order.

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

“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 with whom WTL signs the agreement for supply, install, commission and render services for the systems.

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

“Installation” means Supply, Installation, Testing & Commissioning of Server and Storage with virtualization and software licenses under state grid project of WB-CCW.

“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 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

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

“WBP” means WEST BENGAL POLICE DIRECTORATE.

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

“Project” means Supply, Installation, & Commissioning of Server, Storage, Software license for WB-CCW.

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“**Implementation Period**” shall mean the period from the date of signing of the Agreement and up to the issuance of Final Acceptance Certificate for the project.

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

“**Similar Nature of Work**” means shall include supply, installation, operations and maintenance of infrastructure viz. Servers and Storage / network / NW Security equipment pertaining to Data Centre and/or Data warehouse management

“**Law**” shall mean any Act, notification, by e 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.

“**Period of Agreement**” means 5 years from the date of Final commissioning of the Project.

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

“**Service**” means the work to be performed by the Bidder pursuant to this Contract, as described in the detailed 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.

2. PRE BID MEETING

Pre Bid Meeting will be held on 28.12.2023 at 12.00 hrs. (On-Line Meeting). Bidder can send their queries as per format (Section - M) to Manager (Purchase) (purchase@wtl.co.in). Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. Interest bidders are requested to send mail to (purchase@wtl.co.in) for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.

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 a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

6. MODIFICATION AND WITHDRAWAL OF BIDS

The bidder cannot modify or withdraw its bid after submission.

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

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does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

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 10% 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 month more than the warranty period. All delivery of the material will have to be completed within 6 (SIX) weeks 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 90 days from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

15. TIME SCHEDULE FOR DELIVERY & INSTALLATION

The total delivery, installation & commissioning will have to be completed within 12 weeks from the date of LOI/Order.

16. LIQUIDATED DAMAGE

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 undelivered/installed items, each week or part thereof, subject to a ceiling of 3% of the total contract value (including 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 nonperformance 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

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

19. SUSPENSION OF WORK

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

20. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from relevant customer, i.e., WB-CCW.

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 PRATICES

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. BINDING CLAUSE

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

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

24. WORKMEN'S COMPENSATION

In every case in which by virtue of the provision of the workmen's compensation Act 1923 or any other relevant acts and rules, compensation to a workman employed by the contractor, is payable, then this should be done by the Contractor. If WTL is obliged to make any compensation under the said rules

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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 equipments 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. No consortium partner is allowed.

29. TERMINATION FOR DEFAULT

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

30. BANKRUPTCY

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

31. FORCE MAJEURE

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

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

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

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

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

- Constitute a default or breach of the contract.
- Give rise to any claim 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

The successful bidder will warranty the items supplied under the contract are newly made and are free from defects in the design, engineering and workmanship. The successful bidder will be responsible for the up keep and maintenance of the infrastructure and necessary deliverables under the scope of work during the entire warranty period. The successful bidder must furnish warranty certificate for all items supplied for a period of 5 years from the date of successful commissioning of the project. The overall configuration as certified by WB-CCW (Completion Certificate) should be done by the L1 bidder. Services support for the entire warranty period will be onsite and comprehensive (including spares) and free of cost for the entire warranty period.

34. WARRANTY SUPPORT

The total system will be warranted against bad workmanship and manufacturing defects from the date of acceptance of the system whole or part. Service support for the entire warranty period will be on site and comprehensive (including spares and all software support) and free of cost for the entire warranty period.

The bidder should have a call centre working from at least 09:00 hrs. to 21:00 hrs. in Kolkata. The contact details of the call centre must be furnished along with the bid. Any call logged with the service centre must be given a running docket number to the person reporting the call.

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The average uptime averaged over each quarter should be as follows:

Category	Uptime Requirement	Maximum Downtime permitted per quarter
Supply, Installation and Commissioning of Server and Storage with Virtualization and Software Licenses	99.0%	1) 48 Hours

If the uptime goes below the prescribed limit in any quarter, the same will be noted. At the scheduled end of the warranty period the total of such deviation will be done and the contractor will have to extend the warranty support by the default time. Penalty shall be deducted for deviation of warranty support.

35. PERFORMANCE BANK GUARANTEE (PBG)

As a guarantee for timely delivery, installation and commissioning of equipment as well as performance of on-site warranty support, as mentioned in Bill of Material, from the date of final acceptance of systems and pertaining to proper running of the systems, the bidder will have to submit 10% of the contract value as security in the form of Performance Bank Guarantee from any RBI Scheduled bank as per format enclosed (Section – Q).

36. SI/BIDDER/CONTRACTOR'S RESPONSIBILITIES

Refer Section - A

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. 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.

39. 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.

40. TAXES & DUTIES

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

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- GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filing on the part of the bidder.

41. 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.

42. BID DUE DATE

The tender shall be submitted not later than the due date and time specified in the Important Dates Sheet. WTL may as its discretion on giving reasonable notice by 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.

43. LATE BID

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

44. 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.

45. 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.

46. 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.

47. BID CURRENCIES

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

48. PRICE

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

49. 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.

50. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

51. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized

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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.

52. 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.

53. INTERPRETATION OF DOCUMENTS

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

54. SPLITTING OF THE CONTRACT AND CURTAILMENT OF WORK

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

55. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

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

56. 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.

57. 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.

58. 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

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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.

59. FINAL INSPECTION

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

60. LOCATION DETAILS

WB-CCW Rajarhat, Kolkata.

61. SITE INSPECTION

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

62. 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.

63. BLACKLISTING OF BIDDER

At the stage of competitive bidding:

- a) Submitting false documents as far as the eligibility criteria are concerned.
- b) Submission of bid which involves concealment / suppression of facts in the bid in order to influence the outcome of eligibility screening or any other stage of open bidding.
- c) Unauthorized use of one's name or the name of any other firm for the purpose of bidding.
- d) Withdrawal of a bid or refusal to accept an award or enter the contract with the Govt. without justifiable cause after the bidder had been adjudged as having submitted the lowest responsive bid.
- e) Refusal or failure to post the required performance security within the prescribed time as indicated in the tender document.
- f) Any document unsolicited attempt t unduly influences the outcome of bidder in his favour.
- g) All other acts tend to defeat the purpose of competitive bidding which is contrary to financial rules of the Govt., e.g., habitual withdrawing from bidding except a valid reason not complying with the requirements during bid evaluation.

At the stage of contract implementation:

- a) Failure on the part of the firm to supply items as per Supply Order due solely to his fault or negligence within the prescribed period as mentioned in the detailed tender document.
- b) Failure on the part of the firm/company to fully and faithfully comply with the contractual obligations without valid cause or failure to comply with any written lawful instruction of the procuring entity or its representative(s) pursuant to the implementation of the contract.
- c) Assignment and sub-contracting of the contract or any part thereof.
- d) Unsatisfactory progress in the delivery of goods / items in case of procurement.
- e) Supply of inferior quality of goods, as may be provided in the contract or as per accepted sample / specimen of item(s).

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- f) Any other reason which the procuring entity deems it logical to include in the contract, duly agreed by the selected bidder / firm.
- g) Failure of supply within the stipulated period of time to be mentioned in the supply order.

64. 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 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.
- 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 HC/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.

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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

WebelTechnologyLimited
Plot- 5,Block-
BP, Sector-V,
SaltLake City,
Kolkata-700091.

Sub: Supply, Installation and Commissioning of Server and Storage with Virtualization
Capability and Software Licenses under State Grid Project of WB-CCW

.

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/WB-CCW/SG/23-24/044 dated 20.12.2023, 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, equipments 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 three percent (10%) of the Order value as stipulated in Financial Bid (BOQ).
8. We agree that WTL reserves the right to accept in full/part or reject any or all the bids received or split order within successful bidders without any explanation to bidders and his decision on the subject will be final and binding on Bidder.

Dated, thisday of2023

Thanking you, we remain,

WEBEL TECHNOLOGY LIMITED

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

Signature & Authorized Verified by

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

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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 and returns with lowest quote (L1) in Financial Bid will 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 most overall responsive bidder. A negative determination will result in rejection of bidder's bid, in which event the WTL will proceed to the next lowest evaluated bidder to make a similar determination of that bidder's capability to perform satisfactorily. WTL will award the contract to the successful bidder whose bid has been determined to be substantially responsive after final negotiation may held with the most responsive bidder, if required. This is a turnkey job in a nature, so bidder(s) to quote all the items mentioned in the tender document, which can ensure single point contact / sole responsibility of the bidder(s) towards project execution. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee.

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. At the time of post-qualification, Department of Par& e-Governance may also carry out tests to determine that the performance or functionality of the Information System offered meets those stated in the detailed Technical Specification.

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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.

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

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

Techno Commercial Cover:

Technical Document1

1. Bid Form as per format (Section – F)
2. Other documents, if any

Technical Document2

1. N I T Declaration duly stamped & signed in bidder's letter head, Section –R
2. Other documents, if any

Technical Compliance

1. Detailed Technical Specification ,Section–I
2. Manufacturer Authorization Form, Section –P

Financial Cover:

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

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

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

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none"> • GST Registration Number • PAN • Document as per Section – B
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> • Document as per Section – B • Declaration as per Section – B
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> • Company Profile (Not more than 3 pages) • ISO Certificate as per Section –B
C	CREDENTIAL	CREDENTIAL 1	<ul style="list-style-type: none"> • Order copies as per Section – B
		CREDENTIAL 2	<ul style="list-style-type: none"> • Product brochure • Other documents, if any
D	DECLARATION	DECLARATION 1	<ul style="list-style-type: none"> • List of Clients as per format (Section – O) • Financial Capability of Bidder as per format (Section – K)
		DECLARATION 2	<ul style="list-style-type: none"> • Document as per Section – B • Other documents, if any
		DECLARATION 3	<ul style="list-style-type: none"> • Bidder's Details as per format (Section – L) • Service Centre Details as per format (Section – N)
		DECLARATION 4	Details of Order as per format (Section – J)
		DECLARATION 5	Declaration as per Section – B
F	FINANCIAL INFO	P/L & BALANCE SHEET 2019-2020	P/L & BALANCE SHEET 2020-2021
		P/L & BALANCE SHEET 2020-2021	P/L & BALANCE SHEET 2021-2022
		P/L & BALANCE SHEET 2021-2022	P/L & BALANCE SHEET 2022-2023

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SECTION – H

Supply, Installation and Commissioning of Server and Storage with Virtualisation Capability and Software Licenses under State Grid Project of WB-CCW

BILL OF MATERIAL

Sl. No.	Item Description	Qty	Unit
1.	Supply, installation and commissioning of Blade Server 2x Intel Xeon –Gold 6430 (2.1 G Hz 32-Core) 512 GB (8x64 GB) DDR5 Memory 2x480 GB M.2 SSD Dual –ported 50 Gb (CNA) Converged Network Adaptor. 5 Years On Site Warranty	4	Nos
2.	Supply , installation and Commissioning of Blade Chassis Blade Enclosure 2x VC 100GB F32 Module with FC License 2xPDU 5 Years On Site Warranty	1	Nos
3.	Windows Server Data Centre 16 Core License with 5 Years Support	4	Nos
4.	Windows Server Data Centre 16 Core Add on License with 5 Years Support	4	Nos
5.	v Centre Standard with 5 Years Support	1	Nos.
6.	VMWare vSphere Enterprise Plus 5 Years Support	8	Nos
7.	Storage Enterprise Class Storage with 4*16 GB/s FC 100TB usable in NVMe 5 Years On Site Warranty	1	Nos
8.	SAN Switch 16-port 32GB FC SAN Switch 5 Years On Site Warranty	2	Nos
9.	ToR Switch 24 Port 10G Switch 8*10GB/s+1*100GB DAC	4	Nos
10.	Management Switch 24-port Non-POE 1 G Mgmt Switch	1	Nos
11.	NextGFW with Management & Monitoring – 5 Years <ul style="list-style-type: none"> • NGFW appliance with subscription package for 5 years • Next Generation Threat Prevention subscription for NGFW Appliance for 5 years • Next Generation Firewall Management Software for 5 years • Next Generation Firewall Reporting for 5 years • NGFW Subscription and Support – 5 Years 	1	Nos
12.	Link Load Balancer with 5 Years on Site Warranty	1	Nos
13.	Integrated Rack Data Centre Solution combination with the following line items		
13.1	UPS 20KVA / 20 KW Online UPS - 2	2	Nos
13.2	VRLA Battery for 30 Min Backup,0.8 output PF, ECV:1.70 -2	2	Nos
13.3	Cable and Accessories -2	2	Nos
13.4	Server Rack 800x1200mm -2	2	Nos
13.5	Intelligent Rack PDU -4	4	Nos
13.6	Rack Aisle Containment (200Front & 400 Rear) -1	1	Nos
13.7	Environmental Monitoring & DCIM -1	1	Lot

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13.8	Assembly Services -1	1	Lot
13.9	Inrow Cooling 25KW sensible capacity (N+1 Redundancy) -2	2	Nos
13.10	Inrow Low side works (IDU to ODU- 10 mtrs distance)	1	Nos
13.11	Electrical DB panel Low Side Works -2	2	Lot
13.12	IBMS (FAS, Fire Suppression, RRS, CCTV, Biometric Access Control) -1	1	Lot

All items should have minimum 5 years onsite warranty

Bill of quantity may change at the time of ordering of Purchase Order. Detailed Technical Specifications are given in Section - I

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SECTION- I

Technical Specification Compliance Statement - Supply, Installation and Commissioning of Server and Storage with Virtualization Capability and Software Licenses under State Grid Project of WB-CCW

Tender No: WTL/WB-CCW/SG/23-24/044

Minimum Specification of Blade Server (SI No 1 of BOM)

Qty.	04 No.
Make	
Model	
Part No	

Sl.No	Minimum Specification		Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	CPU	Dual 4th Gen 32-core @ minimum 2.1GHz processor(s).		
2	Memory			
		Minimum 512GB RAM using minimum 32GB DDR5 or higher DIMM(s). Offered Server shall be scalable up to 8TB RAM.		
		Advanced ECC to detect and correct single and all multibit error that occurs within a single DRAM chip		
		Online Spare should be supported.		
		Fast Fault Tolerance or equivalent.		
3	HDD/SSD/NVMe	2 x 480GB NVMe SSD using HW-RAID1 as Boot Controller.		
		Support for up to 4 hot-swap NVMe/SAS/SATA SSD drives		
4	Video	Integrated Graphics controller		
5	Network Controller	Dual ported 50Gb Converged network Adaptor (OR 2 x Dual-ported 25G Eth plus 2 x Dual-ported 16G FC). Solution to be provided to enable partitioning up to minimum 16 separated physical functions including 1 x FC, 1 x iSCSI and multiple Ethernet ports.		
6	FC HBA	Should be capable of supporting 32 Gbps Dual port Fiber Channel HBA internal to the Server Blade.		
7	Bus Slots	Minimum of 3 Nos of x16 PCIe 5.0 based mezzanine slots supporting Converged Ethernet, Ethernet, and FC adapters.		
8	Ports	1 * external USB 3.0. Dedicated 1Gb Ethernet for OOB (OS independent) management.		
9	OS Certification	Certification for latest Server version of Windows and Linux including Oracle Linux.		

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10	Virtualization	Should support Industry Standard Virtualization Software		
11	Driver/Software Utilities	All required device drivers for OS installation /System Configuration and Server Management		
12	System Management & Security	Remote management of Server over LAN & WAN with SSL encryption through OOB gigabit management port, Remote KVM, Server Health Logging, Virtual NIC, REST API, IEEE 802.1x & IEEE 802.1AR, Forensics capture of defective FW images to NAND/USB for external analysis, HTML5 Remote Console, TPM module, Encrypted Virtual Media, and virtual folder with required advanced IPMI license, AD or LDAP, Config backup, Syslog (local and remote). UEFI Secure Boot and Secure Start, Security feature to ensure servers do not execute compromised firmware code, digitally signed, and verified updates, Security Dashboard for Server to detect possible security vulnerabilities, CNSA compliance, Precision Time Protocol (IEEE 1588 PTP)		
		Management software should support integration with popular virtualization platform management software like vCenter, SCVMM, and Red Hat Virtualization.		
		Offered Server platform must be ready for container workload deployment		
		The Server Management Software should be of perpetual type and of the same brand as of the server OEM.		
		Server OOB shall have dedicated management memory with ECC protection.		
		Ability up to six users to share remote console to troubleshoot, maintain and administer remote servers.		
		Group management of power control, and power capping, firmware, configuration, virtual media, and licensing.		
13	Serviceability	System should support embedded remote support to transmit hardware events support. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur. Should provide remote firmware update functionality.		
		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory, and HDD		
		System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support		

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		Solution should be included for monitoring & analysis feature to predict, prevent and auto-resolve problems and by providing automating case creation with OEM TAC and log file submission to OEM TAC for the problems that can't be auto-resolved.		
		Solution provided should help in automatic support case creation with OEM.		
		System should provide firmware upgrade and patch upgrade recommendations proactively.		
		One-button or one-click or RESTful API based secure erase of all user data on the server with respect to secondary storage and NVRAM compliant to NIST 800 standards.		
14	IDC ranking	OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for server.		
15	Warranty	Five years on-site comprehensive OEM Warranty Support with 24x7 coverage and access to OEM TAC/support.		

Minimum Specification of Blade Chassis (SI No 2 of BOM)

Qty.	01 No.
Make	
Model	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Solution Requirement	Solution included with required quantities of blade chassis to be offered to accommodate 10nos of blade servers. Required cables, connectors, fabric interconnect modules/switches in redundancy as needed as per OEM product architecture to be included in the offered solution.	
		Proposed solution should support provisioning virtual, physical and container infrastructure from pools of compute, storage, and networking resources	
		Solution should have single console provisioning for compute, storage and server-side network configuration with choice of direct attach storage (DAS), iSCSI and FC SAN should be available	
		Solution should support API to integrate into popular management tools such as Microsoft Systems Center, VMWare vCenter and into open-source automation for DevOps tools such as Chef, Docker and OpenStack.	

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		Solution should support software defined templates to quickly make changes to the infrastructure. Template should include server BIOS, firmware, boot order, RAID, storage configs and network configs of the infrastructure required for workload.		
		Blade chassis solution should support Internal and external storage provisioning: Local/zoned direct attached storage (DAS), software-defined storage (SDS) and storage area networks (SAN). Should support SAN storage management compatibility for switched fabric, direct attached, or vSAN topologies.		
		Blade chassis solution should support Boot-from-SAN for Fibre Channel (FC), Fibre Channel over Ethernet (FCoE), and iSCSI storage		
		Blade Chassis solution should offer collaborative user interface which support logical resources to physical resources mapping, Smart Search, Activity Log, HTML5 mobile access, and Customizable Dashboard		
		Blade chassis solution should support compute blades based on all the recent generation Intel Xeon processors such as 2 nd , 3 rd and 4 th Gen Processors from day1.		
		Blade chassis should support Storage Module as a directed attached storage module with 40 SFF Drives, Chassis should support min 4nos of Storage Module.		
2	Form Factor & Technology	Offered blade chassis shall be from the latest generation from the Server OEM.		
		Offered Blade chassis should provide connectivity of the shared resources (network modules, management networks etc.) to the compute blades and offered blade chassis architecture should have no- single-point-of-failure design.		
		Dedicated Redundant hot-plug management network connection modules in the chassis for complete management of all the active modules in the chassis		
		Management software for the maximum config with perpetual license. The management software should be from the same OEM.		
		Dedicated Redundant management modules/servers providing single management point for server, storage and networking for both single chassis & multi-chassis environment.		
		Offered blade chassis shall have minimum six I/O module slots to support 3+3 redundancy.		
		Blade chassis should provide display port and USB port to connect Laptop/Monitor locally		
		Shall have integrated/external KVM solution		
3	System Panel	LEDs or LCDs on the chassis can be used to obtain the status of the chassis connection and health.		

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4	Reporting	Should support reporting capabilities for: (a) asset and inventory information for the devices in the enclosures, (b) thermal and power information, including real-time actual power usage per server and per enclosure. Reports should be exportable to csv or Microsoft Excel format		
5	I/O Module	Redundant hot-plug I/O modules- (or Fabric Interconnect switches in redundancy) shall be provided such that uplinks from the chassis can be directly uplinked to LAN & SAN switches		
		Offered I/O solution in the blade chassis should support 50Gbps downlink to the Server Blades in redundancy supporting carving of each port into at least eight ports/network functions. Minimum 100G (200G in full-duplex/bi-directional) bandwidth to be offered to each blade server.		
		Should support to choose Ethernet and FC uplinks as needed		
		Should support MLAG/equivalent for resiliency against interconnect failure		
		Server to Server communication should be in 1:1 non-blocking		
		Each I/O module (or fabric interconnect switch) should have minimum support for 8 x 32Gbps active external FC links, 8 x 25Gbps active SFP28 links, and 2 x 100Gbps QSFP28 links. Offered solution shall be complete in respect of such optics/connectors/cables.		
		Required cables/connectors/mounting-kits shall be included. Minimum cable length required: 15 meters for all patch cords.		
6	Power & Cooling	Blade chassis should be populated fully with power supplies of the highest capacity available with the vendor. Power supplies should support N+N as well as N+1 redundancy configuration, where N is greater than 1. Should offer a single-phase power subsystem enabled with technologies for lower power consumption and offering Platinum energy efficiency.		
		Blade chassis should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with technologies for improved power consumption and acoustics.		
7	Driver/Software Utilities	All required device drivers for OS installation /System Configuration and Server Management		

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8	System Management & Security	Remote management of Server over LAN & WAN with SSL encryption through OOB gigabit management port, Remote KVM, Server Health Logging, Virtual NIC, REST API, IEEE 802.1x & IEEE 802.1AR, Forensics capture of defective FW images to NAND/USB for external analysis, HTML5 Remote Console, TPM module, Encrypted Virtual Media, and virtual folder with required advanced IPMI license, AD or LDAP, Config backup, Syslog (local and remote). UEFI Secure Boot and Secure Start, Security feature to ensure servers do not execute compromised firmware code, digitally signed, and verified updates, Security Dashboard for Server to detect possible security vulnerabilities, CNSA(RFC8603) compliance		
		Blade chassis Management Software should be of the same brand as of the server OEM.		
		Management software should support integration with popular virtualization platform management software like vCenter, SCVMM, and Red Hat RHEV.		
9	Serviceability	System should support embedded remote support to transmit hardware events support. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur. Should provide remote firmware update functionality.		
		System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support		
		System should provide firmware upgrade and patch upgrade recommendations proactively.		
		The system should help in automatic support case creation with OEM.		
		Offered solution should be provided for monitoring & analysis feature to predict, prevent and auto-resolve problems and by providing automating case creation with OEM TAC & log file submission for the problems that can't be auto-resolved to OEM TAC		
		System should support RESTful API integration		
10	IDC ranking	OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for server.		
11	Warranty	Five years on-site comprehensive OEM Warranty Support with 24x7 coverage and access to OEM TAC/support		

Minimum Specification of Software (SI No 3&4 of BOM)

Qty.	8 No.
Make	

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Model	
Part No.	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Windows License	Windows Server 2022 Data Centre 16-Core Lic	
2		Windows Server 2022 Data Centre 16-Core Addon Lic	

Minimum Specification of Storage (Sl No 7 of BOM)

Qty.	01 No.
Make	
Model	
Part No.	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
	Paramater	Functionality	
1	Data Availability and All Flash	<p>1. Offered storage shall be an array which can provide enterprise class resiliency & 100% data availability guaranteed architecture along with all NVMe controllers.</p> <p>2. 100% data availability guaranty shall be clearly mentioned on vendor web site for the offered model. If vendors are not supporting the 100% data availability as per their web site then vendor shall quote additional Controller and 10% additional capacity as cold spare along with array for mitigating the failure situations.</p>	
2	Operating System & Clustering Support	The storage array should support industry-leading Operating System platforms & clustering including: Windows Server 2019 / 2022, VMware ESXi 7/8, Linux and HP-UX etc.	
3	Memory and CPU Processing Power	<p>1. Offered Storage array should have at-least 512GB memory across both controllers.</p> <p>2. After a complete power failure, the host acknowledged writes must be restored without the need for battery backed mirrored write caches.</p> <p>3. Offered storage controller shall be based upon at-least PCI 4.0 technology and storage shall be offered with at-least 32 number of CPU cores.</p>	

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4	Capacity & Scalability	<p>1. Offered storage shall be scalable to more than 1PB raw physical capacity using 15.36TB NVMe drives.</p> <p>2. Offered Storage array shall be supplied minimum 100TB usable Capacity using encrypted drives and shall be configured in Raid 6. Vendor shall not use more than 10D+2P while sizing the array</p> <p>3. Offered Storage shall be able to protect against at-least 2 drives failure simultaneously within a given raid group.</p>		
5	Disk Enclosures	<p>1. Vendor shall ensure that all additional drive enclosures required within the given solution or achieving 1PB raw capacity shall be directly connected to offered controllers using dedicated 100Gbps NVMe-OF redundant links.</p> <p>2. Vendor shall also ensure that each additional drive enclosure shall have dual node or dual controller where each node or controller shall have dedicated CPU and at least 128GB of memory.</p> <p>3. If vendor doesn't support 128GB memory at each controller of drive enclosure, then vendor shall supply additional 512GB memory across main storage controllers.</p>		
6	Storage Encryption	<p>1. Vendor shall offer only the encrypted drives with appropriate encryption licenses. Vendor shall not offer any controller based or Software based encryption.</p> <p>2. Offered encrypted drives shall support both KMIP 1.3 and KMIP 1.4 for key management solutions. Vendor shall offer at-least internal Key manager engine for key management.</p>		
7	No. of Controllers	Offered Storage array shall be offered with at-least dual controllers.		
8	Architecture & Processing Power	<p>1. Offered storage array shall be true Active-active so that every logical disk is striped across all offered drives and all drives shall be able to contribute the IOs to both controllers simultaneously.</p> <p>2. Offered storage array shall have native virtualization support so that Raid can be carved out from a logical space instead of dedicating separate physical disks for each application.</p>		
9	No Single point of Failure	Offered Storage Array shall be configured in a No Single Point of failure configuration including Array Controller card, Cache memory, FAN, Power supply etc.		

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10	Cloud Native data console Management	<p>a. Common Dashboard for all managing multiple arrays through a single cloud native data console.</p> <p>b. Main Dashboard shall provide the information of Total number of Arrays, Volumes, hosts, Capacity and performance information of top Arrays and Volumes.</p> <p>c. Common role-based access control for managing multiple arrays through a single data console instead of creating users and assigning roles individually at each array.</p> <p>d. Common Audit management for all arrays</p> <p>e. Shall have capability for tagging the Storage volume to given host applications so that performance charts can be drawn for application instance for easy management and troubleshooting.</p> <p>f. Offered console shall advise about Placement of application on best fit system based on workload after application tagging.</p> <p>g. Shall be able to provide the context aware software updates on the storage array.</p> <p>h. Shall be able to offer storage management and configuration as a service instead of controlling, patching, and upgrading the management application by onsite team.</p>		
11	Cloud Enabled - Monitoring and Analytics	<p>Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <p>a. Providing Firmware update path, previous version, readiness check before applying the update to production environment and severity level for required firmware update.</p> <p>b. Dashboard shall clearly highlight whether there is any issue with array and shall provide the detailed information about the issue.</p> <p>c. Providing granular near real time performance analysis, at-least at an interval of 5 minutes. It shall allow to create custom reports in csv and PDF format without the need for enabling extra logging, installing any appliances (physical or virtual), or installing any software.</p>		

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		<p>d. Providing overall headroom utilization of the array while combining and analyzing various parameters like IOPS, MB/sec, Block size etc.</p> <p>e. Headroom utilization shall clearly provide the breakup of headroom consumed by the Volumes or tagged application at storage array</p> <p>f. Providing the status of at-least top 5 volumes where latency is extremely high. It shall also provide shading functionality so that more severe hotspot can be easily identified.</p>		
12	Cloud Enabled - Anomaly Detection	<p>Cloud enabled Advance Analytics engine shall have capability to provide following:</p> <p>a. Analytics engine shall have in-built anomaly detection for a given storage volume so that it can provide the variance insight of high LUN latency / response time.</p> <p>b. Analytics engine shall clearly mark all those anomaly detection points on the given LUN / Volume latency graph and shall be applicable for both read and write operations.</p> <p>c. Anomaly detection shall also be applicable for a given storage volume throughput so that drift of workload can be easily identified from the usual read and write pattern.</p>		
13	Cloud Native data console Management - Life Cycle	<p>1. Management application shall be truly cloud native so that there shall be no need to configure, upgrade, patching of management application during the life-cycle of support contract and shall be offered as a service.</p> <p>2. In case, vendor need any additional service like clustering / federation for managing multiple arrays from a single console and doesn't have cloud native data console – then all required accessories like dual Ethernet switches, cables, at-least dual management server in HA etc. shall be provided upfront for at-least 16 arrays.</p>		

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14	Site Assessment	<p>1. Vendor shall do comprehensive Cloud based assessment, at-least for VMware environment on a quarterly basis and shall factor the required services for it.</p> <p>2. Assessment shall provide the detailed analysis of VMware Hosts – CPU & Memory utilization, Storage analysis and relevant findings of contention, Culprit and Victim VMs in the environment attached to offered storage. Offered assessment shall do complete analysis of licensing as well.</p>		
15	Host Ports and Back-end Ports	<p>1. The offered Storage array shall have a minimum of 4 x 32Gbps Fiber Channel ports</p> <p>2. Offered storage shall support both Fiber Channel (FCP) as well as NVMeOF over Fiber channel.</p> <p>3. PCI 4.0 slot of the Fiber channel card shall have at-least 16 lanes so that each offered port can work at line speed even after upgrading to 64Gbps.</p> <p>4. Each offered controller shall have minimum of 48 PCI 4.0 lanes for NVMe disk connectivity.</p> <p>5. For maximizing the overall performance and NVMe SSD endurance, offered storage array shall support full RAID stripe write to backend disk drives for eliminating the white space issues of NVMe SSD drives. Vendor shall provide the documentary proof for same.</p>		
16	Global Hot Spare	<p>1. offered Storage Array shall support distributed Global hot Spare for offered Disk drives.</p> <p>2. Global hot spare shall be configure as per industry practice.</p>		
17	Quality of service	<p>1. Offered storage array shall support quality of service for critical applications so that appropriate and required response time can be defined for application logical units at storage. It shall be possible to define different service / response time for different application logical units.</p> <p>2. Quality of service engine shall allow to define minimum and maximum cap for required IOPS / bandwidth for a given logical units of application running at storage array.</p> <p>3. It shall be possible to change the quality of service Response time (In both milliseconds as well as Sub-milliseconds),</p>		

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		IOPS, bandwidth specification at real time.		
18	Capacity efficiency	<p>1. Offered storage array shall support inline data efficiency engine (Supporting Thin Zero detect and re-claim, De-duplication and Compression) and shall be enabled by default.</p> <p>2. Vendor shall have flexibility to enable / disable the data efficiency engine at the time of Volume creation.</p> <p>3. Storage subsystem shall be supplied with Thin Provisioning, Thin Re-claim, Snapshot, remote replication, De-duplication, Compression, Performance Monitoring, and Quality of service on day 1 for the supplied capacity of the array.</p>		
19	Firmware Upgrade	Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives.		
20	Integration - Container	<p>Offered Storage array shall be integrated with Red-hat OpenShift, Kubernetes and other industry K8 based container platform through CSI driver set. Vendor shall support at-least following functionalities through their CSI / CSP integration :</p> <p>a. Shall support both Static and Dynamic provisioning</p> <p>b. Shall be able to expand, re-size the persistent volumes given to statefulset applications.</p> <p>c. Shall be able to create and delete the snapshots.</p> <p>d. Shall support CSI Raw block volume as well as CSI Volume cloning.</p> <p>e. Support for both Fiber channel as well as ISCSI.</p>		

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21	Integration - VMware	<p>The offered storage system shall also be provided with VMware vCenter integration pack so that following day to day operations can be performed directly from the vCenter itself:</p> <ul style="list-style-type: none"> a. Adding, deleting, expanding the datastore b. Scheduling and restoring datastore and VM snapshot. c. Mounting and applying QOS policy to datastore. d. Creation of VMs. e. RDM migration from VMFS to VVOL f. A common dashboard for providing the number of Storage subsystems, Volumes, Datastore, Virtual Machines, host and Clusters. g. Dashboard shall also provide IOPS, Latency and bandwidth information for Storage subsystem as well as Volumes. h. Dashboard shall also provide top 5 issues which are most recent and based upon the severity of the issue. 		
22	Snapshot / Point in time copy, No. of Volumes and Temper-proof protection	<ul style="list-style-type: none"> 1. The storage array should have support for controller-based snapshots (At-least 1024 copies for a given volume). 2. The system must provide the capability to create immutable, read-only snapshots, that cannot be modified. 3. The system shall provide the capability to create compliant, read-only snapshots, which makes it impossible to modify or delete the snapshot and its base volume by the user, a system administrator, and the manufacturer. 4. The protection period of the above snapshots must be individually configurable between 1 minute and several years. Changing the system clock must not allow the tampering of protection. 5. Offered Storage array shall support more than 32000 base volume on the storage array without snapshot and clone. 		

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23	Remote Replication	<p>1. The storage array should support hardware based data replication at the array controller level across all models of the offered family.</p> <p>2. Offered Storage array shall support both Synchronous and Asynchronous replication across 2 storage arrays natively without using any third party or software based solution.</p> <p>3. Offered storage array shall have capability to create the application consistency group for replication operations. Shall have flexibility to have more than 256 volumes per consistency group.</p> <p>6. Offered storage subsystem shall support incremental replication after resumption from Link Failure situation or during failback operations.</p>		
24	Active / Active Stretch Clustering	<p>1. Offered Storage array shall have capability to provide true Active / Active Replication and Stretch clustering at metro distances for Zero RPO and RTO so that a given volume pair between primary and DR location can have concurrent access to both read and write operations simultaneously.</p> <p>2. Active / Active replication shall be supported for all well-known OS like VMware, Redhat, Windows etc.</p>		
25	Multi-tenancy	Offered storage array shall be true multi-tenant and shall support at-least 128 Tenant per storage array. Every tenant shall be treated as a separate logical storage array with its own user control access.		

Minimum Specification of SAN Switch (SI No 8 of BOM)

WEBEL TECHNOLOGY LIMITED

Qty.	02 No.
Make	
Model	
Part No.	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
Architecture/Scalability/Performance/Management/Availability:			
1	Minimum Dual SAN switches shall be configured where each SAN switch shall be configured with minimum of 16 Ports scalable to 24 ports.		
2	Required scalability shall not be achieved by cascading the number of switches and shall be offered within the common chassis only		
3	Should deliver 32 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 24 ports in a energy-efficient fashion		
4	Should protect existing device investments with auto-sensing 8, 16, and 32 Gbit/sec capabilities.		
5	The switch shall support different port types such as F_Port, E_Port, M_Port, D_Port.		
6	The switch should be rack mountable		
7	Offered SAN Switch shall support less than 900 nanosecond for port to port latency with no contention.		
8	Offered switch shall support at-least 2000 dynamically allocated frame buffers.		
9	The switch shall provide Aggregate bandwidth of 768 Gbit/sec end to end.		
10	Switch shall have support for web based management and should also support CLI.		
11	The switch should have USB port for firmware download, support save, and configuration upload/download.		
12	Offered SAN switches shall be highly efficient in power consumption. Bidder shall ensure that each offered SAN switch shall consume less than 80 Watt of power.		
13	Switch shall support POST and online/offline diagnostics, including RAStrace logging, environmental monitoring, non-disruptive daemon restart, FCping and Pathinfo (FC traceroute), port mirroring (SPAN port).		

Minimum Specification of Tor Switch (Sl No 9 of BOM)

WEBEL TECHNOLOGY LIMITED

Qty.	4 No.
Make	
Model	
Part No.	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Physical Characteristics and Port Requirements		
	The switch should be 1U 19" Rack Mountable		
	The switch should have redundant, field-replaceable, hot-swappable power supplies and Fan tray with front to back/back to front airflow		
	The switch should have minimum 24 ports of 1/10G SFP+ and 4 ports of 40GbE/100GbE (QSFP+/QSFP28) ports from day-1(Populated with 10G SR and 100G DAC as per design requirement).		
	The switch should have RJ-45 serial or USB-C console port, RJ-45 Ethernet Management port and USB Interface		
2	Performance Requirements		
	The switch should have multi-core CPU/processor		
	The proposed switch should have minimum 16GB DRAM, 32GB Flash Memory/Storage and 32MB Packet buffer memory		
	The proposed switch should have minimum 1.2 Tbps switching capacity		
	The switch should support switch virtualization feature and providing Multi-chassis Link aggregation (MC-LAG) for uplink/downlink connectivity		
	The switch should have minimum 100K MAC Address Table size		
	The switch should support minimum 24K IPv4 routes, 12K IPv6 Routes and 4K IPv4/IPv6 Multicast Routes		
	The switch should support minimum 8K IPv4 ACLs and 4K IPv6 ACLs		
3	Operating System Capabilities		
	The switch should have modular operating system with micro-services or equivalent architecture providing superior fault tolerance and high availability		
	The switch OS should support programmability through REST APIs, Python scripting or equivalent		
4	Layer-2, QoS and Security Features		
	The switch should support Spanning Tree Protocol (STP/RSTP/MSTP) and Ethernet Ring Protection Switching (ERPS) for rapid protection and recovery		
	The switch should support Link Aggregation Control Protocol (LACP)		
	The switch should support IEEE 802.1Q VLANs (1000 VLANs)		
	The switch should support Strict priority (SP) queuing and Deficit Weighted Round Robin (DWRR)/WRR		
	The switch should support Private VLAN for traffic isolation for users on the same VLAN		

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	The switch should provide storm protection to limit unknown broadcast, multicast, or unicast storms with user-defined thresholds		
	The switch should support Internet Group Management Protocol (IGMPv1, v2, and v3) and Multicast Listener Discovery (MLDv1 and v2)		
	The switch should support 802.1x/Mac-auth/MAC lockdown/ MAC lockout		
5	Layer-3 Routing and Services Features		
	The switch should support IPv4,IPv6 Static Routing and RIPng		
	The switch should support Open shortest path first (OSPF) for IPv4 and IPv6		
	The switch should support Border Gateway Protocol 4 (BGP) for IPv4 and IPv6		
	The switch should support Policy Based Routing (PBR)		
	The switch should support Multicast Routing using PIM-SM/SSM and Multicast Service Delivery Protocol (MSDP)		
	The switch should support VXLAN with BGP-EVPN		
	The switch should support DHCP Server providing DHCP services (for IPv4 and IPv6)		
6	Management Features		
	The switch should support SNMP v2c/v3 and Remote monitoring (RMON)		
	The switch should support sFlow or equivalent for traffic analysis and IPFIX for flow analysis		
	The switch should provide advanced telemetry and automation features for monitoring, troubleshooting and improving network operations		
	The switch should support RADIUS and TACACS+ for securing administrative access		
	The switch should have Command Line Interface (CLI) with a hierarchical structure and SSH, Secure FTP/TFTP support		
	The switch should support Port mirroring		
7	Certifications and Industry Recognition		
	The switch should have RoHS compliance		
	The switch should have safety/emissions certifications including EN55032:2015/CISPR 32, Class A,FCC CFR 47 Part 15:2018, Class A ICES-003, Class A		
8	Support and Warranty		
	The switch shall be offered with minimum five years hardware warranty with Technical support from OEM directly		
	All the features mentioned in the specifications shall be enabled/activated. Any licenses required shall be included from Day 1		

Minimum Specification of Firewall (Sl No 11 of BOM)

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Qty.	1 No.
Make	
Model	
Part No.	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
A	<u>Eligibility Criteria</u>		
1	Solution should be purpose build hardware appliance.		
2	The OEM shall provide 365x7x24 days technical support. The OEM shall provide the login credentials to raise the technical issues in the name of customer, search knowledgebase, download the patches and upgrades, documents and manage the device on OEM sites. The successful Bidder must provide the login credentials.		
3	The provided hardware should not be end of support during the contractual period. It should continue to provide a) Upgrades and latest OS version in market b) Updates c) Patches and Fixes		
4	All the components of the solution shall be from the same OEM		
5	The appliance should not have any active internal or external Wi-Fi component. Proposed OEM must be in Gartner Leader in latest NFWG magic quadrant.		
B	<u>Specification</u>		
1	The proposed firewall solution shall run on a hardened OS and delivered on purposeful built hardware and security appliance.		
2	Firewall Appliances shall be rack mountable and rack mount kit shall be supplied along.		
3	Solution shall provide features and licenses for contractual period for Firewall, IPS, Site to Site VPN, Granular Application control on same appliance managed through a separate centralized management console.		
4	Solution shall support Application level and “Stateful” policy inspection technology to prevent traffic leakage. It shall also have application intelligence for commonly used TCP/IP protocols like telnet, ftp, http, web 2.0 application etc.		
5	The proposed security platform should support High Availability in future.		
6	Firewall Appliance shall provide high availability in Active- Active and Active-Passive mode. Appliance failover shall be completely stateful in nature without any manual intervention and should be completely transparent to end-user without any session drops.		
7	Appliance shall not require any downtime/ reboot for failover & backup purpose.		
8	Firewall OS, CVE (Common Vulnerabilities and Exposures) must be available/disclosed on public web		

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	sites		
9	It shall be possible to centrally manage Firewall and all the associated modules/ functionalities/ services over secure channel.		
10	solution shall be supplied with the support for static and dynamic routing protocols.		
11	The solution shall support VLAN tagging (IEEE 802.1q).		
12	Solution shall have inbuilt integration with Identity Awareness Capabilities without any external devices. Integration shall work with/without any agent on the remote side.		
13	Solution shall support Application awareness and granular control functionalities for all the commonly available Web 2.0 applications. Solution must have minimum 10,000+ application signature on day1.		
14	shall provide IPv4 and IPv6 support including NAT64 , NAT66 & NAT 46.		
15	Solution shall support Link aggregation functionality (LACP/PAGP) to group multiple ports as single Channel.		
16	Solution must support the policies to block the credit card, Bank numbers etc.... also must provide flexibility to create the polices to block file types and direction of data passing via firewall (download and upload etc..).		
17	The firewall appliance shall support upto 20 or more virtual systems/VDOM/virtual contexts. The functionality can be requested in future however all virtual domains must work as dedicated NGTP firewall with all feature.		
C	<u>Performance Requirements</u>		
2	Shall have Next Generation Firewall throughput of more than 21 Gbps with Application Control, FW and IPS with logging enabled in Enterprise Mix / Application Mix traffic.		
3	Shall have Next Generation IPS throughput of at least 24 Gbps with logging enabled in Enterprise Mix / Application Mix traffic.		
4	Shall support at least 16 million concurrent sessions/connection and minimum 320000 new connection per second		
5	Solution shall have minimum following ports: - 8 usable 1Gig interfaces Copper - 4 usable 1Gig and 10Gig SFP+ Interfaces (with SR transceivers) - Separate & Dedicated 1 x 1G port for out of band management - Separate & dedicated port for HA connectivity		
6	Must have integrated redundant power supplies		
7	Solution architecture should have Control Plane separated physically or virtually from the Data Plane.		
8	solution hardware should be a multicore CPU architecture with a hardened 64-bit operating system and shouldn't use any proprietary based ASIC architecture.		
9	Should support minimum of 64GB of RAM or higher from day 1.		
10	Must have 400 GB of SSD storage		
D	<u>Network Protocols/Standards Support Requirements</u>		

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1	Solution shall support the deployment in Routed or Transparent Mode		
2	Must support Static, RIP, OSPF, OSPFv3 and BGP		
3	The proposed firewall shall be able to handle unknown /unidentified applications with actions like allow, block or alert		
4	The proposed firewall shall have granular application identification technology based upon deep packet inspection		
5	The proposed firewall shall warn the end user with a customizable page when the application is blocked		
6	The proposed firewall shall delineate specific instances of instant messaging/Social Network Applications (Facebook Chat,WhatsApp,Telegram,WeChat etc.)		
7	The Firewall shall provide stateful engine support for all common protocols of the TCP/IP stack.		
8	The Firewall shall provide NAT functionality, including dynamic and static NAT translations.		
9	Firewall should have creating access-rules with IPv4 & IPv6 objects wise, user/groups wise, application wise, application wise geolocation control, url wise, zone wise, vlan wise, etc.		
10	Should have more than 10,000+ pre-defined distinct application signature (excluding custom application signatures) as application detection mechanism to optimize security effectiveness and should be able to create new application categories for operational efficiency		
11	Solution modules shall support authentication protocols like RADIUS/ TACACS+ etc.		
12	Proposed NGFW OEM must support zero day attack protection with integration of on-Prem Anti-APT/Sandboxing/Threat inspector appliance. The Anti-APT device must be available from same OEM of NGFW and can be managed from same central management console at On-prem. Solution must provide malware analysis as well as CDR functionality. This functionality may require in future however solution must be available with OEM from during bidding.		
13	a) Network address translation (NAT) shall be supported so that the private IP addresses of hosts and the structure of an internal network can be concealed by the firewall.		
	b) Network Address Translation (NAT) shall be configurable as 1:1, 1: many, many: 1, many: many.		
	c) Reverse NAT shall be supported.		
	d) Port address translation /Masquerading shall be supported.		
14	Dynamic Host Configuration Protocol (DHCP) & Virtual Private Network (VPN) shall be supported		
15	The firewall shall support Internet Protocol Security (IPsec).		
	support Key exchange with latest Internet Key Exchange (IKE), Public Key Infrastructure PKI (X.509)		
	Support Latest Encryption algorithms including AES 128/192/256(Advanced Encryption Standards), 3DES etc.		
	Support Latest Authentication algorithms including SHA-1(Secure Hash Algorithm-1), SHA-2(Secure Hash Algorithm-2) etc.		

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	IPsec NAT traversal shall be supported		
E	<u>Firewall Policy Requirements</u>		
1	Firewall/shall be able to configure rules based on the following parameter -- a) Source/Destination IP/Port/Geo locations b) Time and date access c) User/group role (After Integration with AD) d) Customizable services e) Combination of one or multiple of above mentioned parameters		
2	It shall support the VOIP Applications Security by supporting to filter SIP, H.323, MGCP etc.		
3	Firewall shall support Access for Granular user, group & machine based visibility and policy enforcement. It shall have following features: a) The firewall shall mask/NAT the internal network from the external world. b) Multi-layer, stateful, application -inspection-based filtering shall be supported. c) It shall provide network segmentation features with capabilities that facilitate deploying security for various internal, external and DMZ (Demilitarized Zone) sub-groups on the network, to prevent unauthorized access. d) Ingress/egress filtering capability shall be provided. e) There shall be support for detection of reconnaissance attempts such as IP address sweep, port scanning etc. f) Basic attack protection features listed below but not limited to : • It shall enable rapid detection of network attacks • SYN cookie protection/SYN Flood • Protection against IP spoofing • Out of state TCP packets protection"		
4	The proposed solution must support Policy Based forwarding based on: - Zone - Source or Destination Address - Source or destination port/service - AD/LDAP user or User Group - Application, sub applications groups		
5	NGFW Appliance should have a feature of holding multiple policy versions to support resilience & easy rollbacks during the incidents		
6	Solution must support Configuration of dual stack gateway on a bond interface, OR on a sub-interface of a bond interface		
7	RFC 2464 Transmission of IPv6 Packets over Ethernet Networks must be supported.		
H	<u>Product certifications</u>		
1	should obtain minimum EAL4+ and ICSA certification		
2	Must obtain recommended rating in NSS lab report.		
3	must obtain IPv6 ready/USGv6R1 standard certification to support IPV6 features.		
I	<u>Administration, Management , Logging & Reporting</u>		
1	The Firewall Management Solution , log server and reporting server can be either hardware appliance or VM based solution at On-prem only.		

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2	Solution must have tracking mechanism for the changes done on policy management dashboard and maintain audit trails.		
3	In case of VM based management solution, All other third party licenses including OS, software components, databases etc. for running the solution has to be provided by the bidder for the entire duration of the project. All licenses shall be Enterprise class. Solution has to be configured by the bidder to cater to smooth operation of the whole solution should be scalable to use more storage and compute if required.		
4	The Solution shall receive logs for the overall proposed solution in a single system, and shall not be separate for each module of proposed firewalls.		
5	The management platform must include an integration mechanism, preferably in the form of open APIs and/or standard interfaces, to enable events and log data to be shared with external network and security management applications, such as Security Information and Event Managers (SIEMs), and log management tools.		
7	The proposed solution must support the ability to lock configuration while modifying it, avoiding administrator collision when there are multiple people configuring the appliance		
8	Solution must have the granularity of administrators that works on parallel on same policy without interfering each other		
9	Solution must be able to segment the rule base in a sub-policy structure in which only relevant traffic is being forwarded to relevant policy segment for an autonomous system		
10	Solution must be able to install threat related protections and access related rules separately		
11	Log viewer must have a free text search capability		

Minimum Specification of Link Load Balancer (Sl No 12 of BOM)

Qty.	01 No.
Make	
Model	
Part No.	

Sl.No	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Minimum Layer4 Throughput of 3 Gbps		
2	Solution should provide minimum 80,000 Connection per Second on Layer 4		
4	The solution should provide minimum 6x GE RJ45 Interfaces from day one.		
5	The solution should support 4 million ore more Layer 4 Concurrent Connections		
6	Should support minimum 500 SSL TPS (2K Keys)		
7	Should provide minimum 5 Gbps of Compression Throughput		
8	Should provide minimum 500 Mbps of SSL Bulk Encryption Throughput		

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9	The solution should provide minimum 10 Virtual contexts from day one		
10	The solution should have minimum 8 GB of Memory & 64 GB SSD as local storage from day one		
11	Solution must aggregate WAN links from a single or multiple ISPs for inbound/outbound traffic load balancing & redundancy. WAN Links must support IPv4 or IPv6 addressing or both simultaneously.		
12	Must support PPPoE WAN links with static or dynamic IP address allocation		
13	Should support DHCP WAN links		
14	Should support Static IP WAN links		
15	Must support more than one WAN link on each physical port using an external WAN-side VLAN switch.		
16	Must support 802.1Q VLAN on all ports		
17	Must support LACP/Link Aggregation		
18	Must support Routing Default route(s), Static Route(s), Policy Route(s) for both IPv6 and IPv4, and dynamic Reverse Route Cache for both IPv4		
19	Should support OSPFv2 & OSPF Authentication & BGP		
20	Should support Static NAT functionalities		
21	Should support Port Forwarding (nat port, ip pool)		
22	Must support multiple WAN link health detection function		
23	Configurable intervals, retries and timeouts		
24	Should support outbound link load balancing methods like Weighted Round Robin, Least Connections, Least New Connections per Second, Least Throughput Outbound, Least Throughput Inbound, Least Throughput Total, Spill over Throughput Outbound, Spill over Throughput Inbound, Spill over		
25	The solution should have facility to configure persistence rules identify traffic that should be ignored by load balancing rules and instead be forwarded to the same gateway each time the traffic traverses		
26	Must support A/AAAA Records for inbound load balancing		
27	Should support Persistence Methods like Source-destination pair, Source-destination address, Source address, Destination address		
28	Solution should have proximity routes option		
29	Should able to route traffic based on source/target IP, port, protocol, priority to different ISPs, failover, max throughput supported		
30	Should support inbound methods like Round Robin, Weighted Round Robin, Proximity, and all GSLB functions (Proximity, Region, etc..)		
31	Should support Smart DNS like the LLB DNS can be used with Smart DNS for more advanced DNS resolution, such as region, proximity support.		
32	Must provide inter-site Tunnels with inbound/outbound failover and load balancing		
33	Tunnels must support flexible "packet bonding" across multiple WAN links to support higher singles-session data rates than would be available on any single WAN link.		
34	Should support LLB detailed link statistics reporting and monitor graphs		
35	MUST support simple management access i.e. without the need for local management clients (HTTPS preferred)		
36	MUST support SNMP for polling of system statistics		

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37	MUST support SNMP Traps for key system thresholds (specify)		
38	Solution should be quoted with 3 years support		

Minimum specification of Integrated Rack Data Centre Solution

Sl.No	Requirement	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1	Scope of Work		
a.	<ul style="list-style-type: none"> Integrated Rack Data Centre solution should be intelligent and should have facility of inbuilt UPS, Precision cooling unit, Fire detection and Fire Suppression system, environmental monitoring and DCIM software etc. Modular and reliable design for power and cooling: The critical components used to design the system should be redundant and in the Events of failure, the components shall be easily maintainable and shall be the responsibility of both OEM and bidder. All the components of the infrastructure should be such that it can be easily dismantled and relocated to different location. This specification covers intelligent integrated/inbuilt infrastructure, standalone system design, engineering, manufacture, assembly, testing at manufacturer's works, supply, delivery at site, unloading, handling, proper storage at site, erection, testing and commissioning at site of complete infrastructure for the proposed Data Centre as detailed in the specification, complete with all accessories required for efficient and trouble-free operations 		
2	Primary Data Centre Requirements		
a.	Integrated Rack Infrastructure Solution with inbuilt Cold and Hot aisle containment of 02 racks should cater IT load of Min 20 kw with a provision of adding 2more rack in future with one In row cooling to cater total load of 40KW. Both Hot & Cold aisle containment should be part of the rack frame.		
b.	The Intelligent Integrated Infrastructure essentially includes internal redundant or backup power supplies, environmental controls (e.g., precision air conditioning, fire suppression, smoke detection, water leak detection, humidity sensor, intelligent monitoring system, security devices, etc.) Air-conditioning system is to have 100 % reliability on 24 x 7 basis with adequate standby for system redundancy. (Failure of any single unit; still to meet the total cooling requirement). The ambient temperature considered for the calculation of total tonnage requirement should be 45 Degrees.		
c.	The detail specifications of the Integrated Solution, standalone system shall be in adherence to Standard Data Centre guidelines thus shall be composed of multiple active power and cooling distribution paths, but only one path active. Should have redundant components.		

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d.	Critical Component's for Integrated Rack DC solution i.e., Rack, Rack aisle Containment, rack IPDU, In row Cooling, UPS, and DCIM software along with Environmental monitoring & TH sensors should be from same & single OEM for Seamless Integration & better Service Supports		
e.	OEM Qualification:- ISO9001, ISO 14001, ISO 27001:2013,ISO45001:2018,ISO 50001		

Minimum specification of UPS 20 KVA with 30 minutes Backup (BOQ Sl. No. 13.1,13.2 & 13.3)

Qty.	2 Nos.
Make	
Model	
Part No.	

Sl.No	UPS 20 KVA with 30 minutes Backup	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1	UPS should be with capacity of min 20KW, with pf up to unity and efficiency at least 95.5%.Should be in N+N topology.		
2	True On-line UPS with Widest input range (331V-477V) or better.		
3	Double conversion and IGBT technology: Full IGBT Rectifier / Battery Charger and IGBT based Inverter		
4	Printed Circuit Boards in the UPS frame shall be 100% conformally coated.		
5	Facility for Remote Monitoring		
6	UPS shall have built-in feature to test UPS at 100% Load without the need of any external Load Bank. Incase this feature is not available within the UPS, Vendor shall provide a External Load Bank equal to UPS Capacity which will be kept at the site till the Warranty period ends.		
7	UPS should have feature of Common battery bank		
8	UPS should have inbuilt feature of detecting the waveform in fault condition		
9	Battery backup of 30 minutes for each UPS at load power factor 0.8, ECV – 1,7 via 12V SMF Batteries.		
10	AC-AC Efficiency in normal operation from 25% load to 75 % Load shall be > 95%.		

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Minimum specification of Server Rack (BOQ Sl. No. 13.4)

Qty.	2 Nos.
Make	
Model	
Part No.	

Sl.No	Rack frame and Usable Space	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1.	<p>2 Nos. of 42 U racks of dimension 800 mm x 1200 mm (Server Rack) and 2 Nos. of 42U rack if dimension 800X1200mm (For future provision) with integrated hot & cold aisle containment of minimum 400mm as hot Aisle & 200mm as Cold Aisle.</p> <p>Both Hot & Cold aisle containment should be part of the rack frame.</p> <p>Rack should be UL Certificate, documentary evidence needs to be submitted at the time of bidding.</p> <p>Load bearing capacity 1200 KG.</p>		
2.	Status based LED light to be provided on each rack.		
3.	Each rack enclosure should be physically separated through caged partition at cold & hot aisle to avoid unauthorized access from one rack to another.		

Minimum specification of Rack PDU (BOQ Sl. No. 13.5)

Qty.	04 Nos.
Make	
Model	
Part No.	

Sl.No	Requirement	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1.	Power Distribution		
a.	<p>Each IT Rack should have two intelligent rack PDU's. Intelligent rack PDU should have minimum 36 outlets of C13 and 6 outlets of C19 with minimum 1.8-meter input cable with IEC309 Socket. IPDU should be of 16Amp 3 phase, IPDU should provide real time monitoring of connected loads and user-define alarms.</p> <p>Display Interface:- LCD display with function button which allows to monitor current, power, and voltage measurement of connected devices.</p> <p>Product Certification: VDE Standards : CSA C22.2 No 60950, IEC 60950, UL 60950-1</p>		

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Minimum specification of Rack Aisle Containment (BOQ Sl. No. 13.6)

Qty.	1 No.
Make	
Model	
Part No.	

Sl.No	Rack frame and Usable Space	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1.	2 Nos. of 42 U racks of dimension 800 mm x 1200 mm (Server Rack) and 2 Nos. of 42U rack if dimension 800X1200mm (For future provision) with integrated hot & cold aisle containment of minimum 400mm as hot Aisle & 200mm as Cold Aisle. Both Hot & Cold aisle containment should be part of the rack frame.		
2.	Each rack enclosure should be physically separated through caged partition at cold & hot aisle to avoid unauthorized access from one rack to another.		

Minimum specification of Environmental Monitoring with DCIM Software (BOQ Sl. No. 13.7 & 13.8)

Qty.	01 Lot.
Make	
Model	
Part No.	

Sl.No	Environmental Monitoring with DCIM Software.	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1.	Environmental Monitoring		
a	Intelligent Integrated rack should include basic environmental monitoring: <ul style="list-style-type: none"> • Water Leak Detection system. • Temperature and Humidity Sensors for measuring Temperature & Humidity. • Alarm beacon 		
2.	DCIM Monitoring		
a.	Detailed DCIM Monitoring & Diagnostics through DCIM software ,1U rack mountable server/VM server which capable of single window monitoring of all the critical equipment's like UPS, INROW, Rack PDU, parameters through a single window dashboard over Ethernet & Capable for sending Email Alerts		

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b.	UPS, INROW, Cooling, IPDU & TH sensor monitoring unit should be integrated with DCIM software to monitor all critical parameters. Any alarm generated in these equipment's to be displayed through DCIM software in single dashboard. Monitoring unit should be integrated with energy meter of the Integrated rack DB Panel & should be able to monitor the Main Input power Voltage, Current, power consumption. DCIM should also get fire alarm panel status on DCIM. DCIM software should provide Multi-vendor device support. Monitoring system should support customizable Windows and Linux client application that enables instant access to monitoring system application from anywhere on the network. Proposed DCIM solution OEM should be engaged in the development of data center infrastructure management systems whose products have been in satisfactory use in similar service for a minimum of 10 years under the same brand name with undisputed business continuity.		
c.	The Monitoring Application shall allow the user to create user accounts ranging from Administrator Access to View Only Access with unique login username and password.		
d.	Authentication and Encryption: The communication between the client and the Monitoring Application shall be secured via a Secure Sockets Layer (SSL) 256-bit Triple-DES (Data Encryption Standard) encoded connection. The DCIM vendor to follow an ISO 30111-conformant vulnerability handling process.		
e.	If required in future DCIM software should be capable of adding Change management, Capacity Management kind of modules.		
f.	If required in future DCIM software should be capable of adding multiple sites on same software.		
g.	Min. 11inch touch screen HMI – Graphical User Interface display should be mounted on the Integrated rack solution for local monitoring & capable of monitoring of the Integrated rack Data Centre		

Minimum specification of Row based Precision Cooling (BOQ Sl. No. 13.9 & 10)

Qty.	02 Nos.
Make	
Model	
Part No.	

Sl.No	Requirement	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
a.	Precision Air Cooling solution should be of nominal capacity 30 kW capacity with standby (N+1 redundancy)		
b.	Data Centre server and network racks should be cooled with In-row Variable Speed compressor cooling units to provide closed loop precision cooling system which should be able to cool the equipment's uniformly right from 1st U to 42nd U of Rack		
c.	Precision Air Cooling units should be catering 40 KW IT load considering future load with current load of 20KW, in N+1 topology throughout. Width of Each Cooling unit should be 300mm to have compact design. The total cooling net sensible capacity of min 40KW @ 6400 CFM (at N+1 configuration) for given design conditions: -Unit should be designed for ambient temperature of 45 Deg C and supply temperature 22 Deg C at cold aisle.		
d.	The compressor should achieve the capacity modulation by adjusting speed of the compressor to achieve the better efficiency in part load &		

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	unit should have EEV. The compressor should be placed at the outdoor unit to reduce the any major service activity at IDU or inside the server room.		
e.	The Indoor unit should have variable speed EC fans & should be hot swappable during any failure or replacement. The unit should have inbuilt Heater and Humidifier. Also, Indoor unit have the option of dual power connections to have continuous cooling without any downtime.		
f.	Outdoor unit should be with variable speed axial fans with EC motor & coil with copper tubes & aluminum fins.		
g.	Unit should have internal condensate Pump & filters should be MERV 1 efficient. The filter should be replaceable from the rear of the unit.		
h.	Microprocessor based Controller with touch screen display & provide capacity of the unit & airflow and all the logs.		
i.	All Cooling units equipped with direct expansion circuit should be suitable for R410A refrigerant. The unit should support longer piping distance if required based on the site condition.		
j	UL Listed		

Minimum specification of Electrical DB Panel (BOQ Sl. No 13.11)

Qty.	1 Lot.
Make	
Model	
Part No.	

Sl.No	Requirement	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)
1	DB panel should be mounted on to utility rack with N+N redundancy and all internal cabling integrated into the same. Essential and proper load capacity MCB/MCCB should be provided with electrical system. Two IPDUs inside each racks should be connected by two separate N+N UPS Source. DB panel mounted on Utility rack shall be covered with Novec 1230 Gas/FK-5-1-12 based fire suppression system.		

Minimum specification of IBMS (FAS, Fire Suppression, RRS, CCTV, Biometric Access Control) – (BOQ Sl.13.12)

Qty.	1 Lot.
Make	
Model	
Part No.	

Sl.No	Requirement : Fire Safety, VESDA, Security, Access Control & RRS	Specification (Quoted/ Applicable - by the bidder)	Compliance (Yes/No)

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1	Fire detection and suppression system should be mounted in panel side of integrated Racks or nearby wall to avoid consumption of any usable U space. It should have Fire alarm and fire suppression unit and the fire suppression agent should be NOVEC 1230 Gas/FK-5-1-12 as per NFPA guidelines. The fire suppression gas should cover entire volume of Integrated Rack Data Centre.		
2.	HSSD system/VESDA should be the part of Integrated Rack Data center to get early smoke detection alarm.		
3.	IP based Biometric Access Control System shall be provided to serve the objective of allowing access to authorized personnel only. The front & rear rack doors will be provided with magnetic locks and will operate on fail-safe principle through one common Biometric access control system.		
4.	The Integrated Rack Data Centre Infrastructure should be covered with Rodent repellent system		
5.	2MP Motion sensing IP Based CCTV camera with NVR, 1TB Storage and POE switch to be provided for live monitoring at Integrated Rack Data Centre Infrastructure.		
6.	Rodent Repellent should be part of Integrated solution.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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SECTION – I

DETAILS OF ORDER EXECUTED BY BIDDER

(Tender No. WTL/WB-CCW/SG/23-24/044)

Sl. No.	Order No.	Order Date	Order Value	Brief description of items and job details	Completed (Yes/NO)	Name of the Customer	Contact details of the Customer

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

- a. Type of Project shall indicate the implementation of services (Networking Setup, System Integratio supply, installation, operations and maintenance of infrastructure viz. servers and Storage / network / NW Security equipment pertaining to Data Centre and/or Data warehouse management).
- b. Scope of work shall indicate whether it is implementation, Operation or maintenance.
- c. SubmitCustomerOrderCopydetailsoftheorderindicatingtheprojectvalue, customer contact details, project completion certificate, customer satisfaction certificate etc.

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SECTION – K

FINANCIAL CAPABILITY OF BIDDER

(Tender No. WTL/WB-CCW/SG/23-24/044)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2020-21	2021-22	2022-23
1				

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED**SECTION – I****BIDDERS'S DETAILS**

(Tender No. WTL/WB-CCW/SG/23-24/044)

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

WEBEL TECHNOLOGY LIMITED

	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

PRE-BID MEETING QUERY

(Tender No. WTL/WB-CCW/SG/23-24/044)

Name of the Bidder:

Queries

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

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – P

MANUFACTURER’S AUTHORIZATION FORM

Date:

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

Ref: Tender No.: WTL/WB-CCW/SG/23-24/044 dated 20.12.2023

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

When resold by _____, these products are subject to our applicable standard end user 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 standard Warranty Terms we would continue to meet our Warranty Terms through alternate arrangements.

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

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

We also confirm that the material will be delivered within 12 weeks 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 – Q

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/ RBI 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 – R

NIT DECLARATION FOR BIDDER

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

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

Sub: Supply, Installation and Commissioning of Server and Storage with Virtualization Capability and Software Licenses under State Grid Project of WB-CCW.

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/WB-CCW/SG/23-24/044 dated 20.12.2023 for Supply, Installation and Commissioning of Server and Storage with Virtualization Capability and Software Licenses under State Grid Project of WB-CCW 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