

WEBEL TECHNOLOGY LIMITED

NOTICE INVITING e-TENDER

Online Tender documents are invited for Upgradation of Hardware and Software of VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal with 3 years Product and Onsite Installation warranty”.

Bids are invited from reputed System Integrators having sufficient experience and credentials for successful completion of “**Similar Nature**” of work in a Central or State Government Department/PSU/Autonomous Body. WTL has been chosen as the execution authority for the same.

1.	Tender No. & Date	WTL/IB/CMS/22-23/016 dated 28.07.2022
2.	Tender Version	1.0
3.	Brief description of material	Upgradation of Hardware and Software of VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal with 3 years Product and Onsite Installation warranty.
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. 6,00,000/- Only (Rupees Six Lac only). The amount to be transferred online through e-tender portal.
6.	Date of Downloading	28.07.2022
7.	Pre-Bid Meeting date & time	04.08.2022 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 - L) reaching WTL by 03.08.2022 at 15.00 Hrs. will be taken for decision.• Interest bidders are requested to send mail to purchase@wtl.co.in for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.• Only queries as per format (Section - N) reaching WTL by 03.08.2022 at 15.00 Hrs. will be taken for decision.• Queries will be sent to Manager (Purchase) (purchase@wtl.co.in)
9.	Bid Submission Start date & time	10.08.2022 at 14.00.hrs.
10.	Last date & time of EMD & Tender Fee submission intimation.	Before Uploading of Tender
11.	Last date & time of Bid Submission	16.08.2022 at 12.00.hrs.
12.	Date & time of Technical Bid opening	18.08.2022 at 12.00.hrs.
13.	WTL Address	WEBEL TECHNOLOGY LIMITED (A Govt. of West Bengal Undertaking) Plot - 5, Block – BP, Sector – V, Salt Lake City, Kolkata – 700091.
14.	Contact person	033-23673403-06 Purchase Department

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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 (for the entire scope of the project) 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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The Tender document comprises of the following:

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SECTION – Q	LIST OF CLIENTS OF SIMILAR ORDER

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SECTION – A

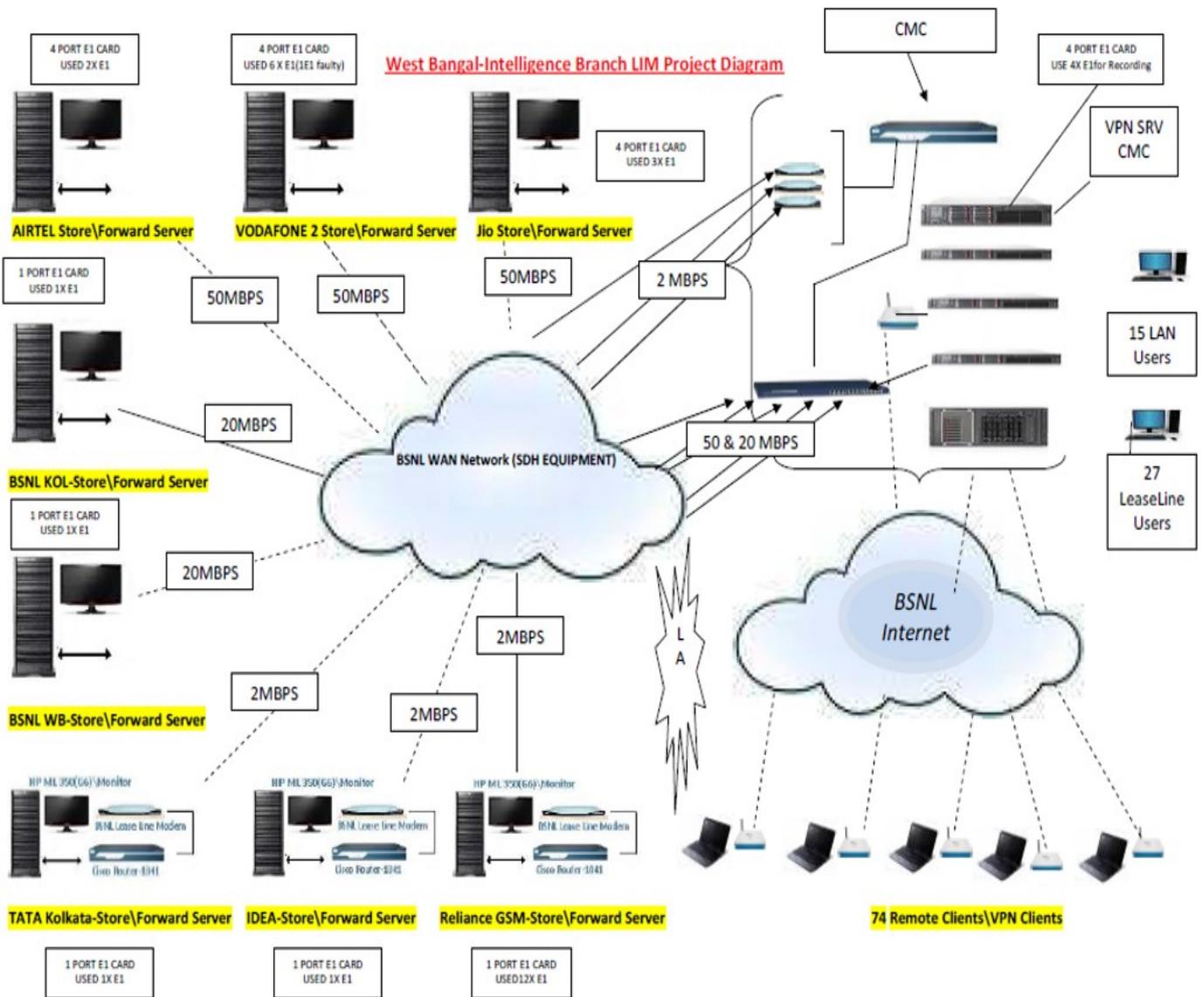
SCOPE OF WORK & BILL OF MATERIAL

DETAILED SCOPE OF WORK FOR INTELLIGENCE BRANCH WEST BENGAL

Supply, Installation, Testing, Commissioning (SITC) and Maintenance of Hardware and upgradation of Hardware and Software for VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal, this system covering telecom circle of West Bengal for Telecom Service Provider Airtel, Rjio, VodaIdea and BSNL (Kolkata and West Bengal) with 3 year Product and Onsite Installation warranty.

As-IS

Here is the present architecture of how the system is built over several years:
Existing System Configurations:



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	Mediation server	Domain Server	Central server LIVE	SDR Server	VPN Server	PRI Server	NAS	CENTRAL SERVER (INFECTED)
MODEL	HP DL380 G6	HP DL380 G6	DELL PowerEdge R530	HP ML350 G6	HP ML350 G6	HP ML350 G6	NETGEAR Ready NAS 4312	HP DL380E G8
SERIAL NO	SGH009XHPN	SGH005XDD4	7RVDZL2	SGH951XM7W	CN7211088D	CN722003XM	SL: 4UT674EJ000B1	
Operatin System	WINDOWS SERVER 2008 STANDARD EDITION	WINDOWS SERVER 2008 STANDARD	WINDOWS SERVER 2016	WINDOWS SERVER 2008 STANDARD	WINDOWS SERVER 2008 STANDARD	WINDOWS SERVER 2008 STANDARD	ReadyNAS	WINDOWS SERVER 2008 STANDARD
	SP2, 64BIT	SP2, 64BIT	64BIT	SP2, 64BIT	SP2, 64BIT	SP2, 64BIT	N/A	SP2 64BIT
Database	MS SQL 2008 Std Edn SP2	N/A	MS SQL 2008 Std Edn SP4	MS SQL 2008 Std Edn SP2	N/A	MS SQL 2008 Std Edn SP2	N/A	MS SQL 2008 Std Edn SP2
PROCESSOR	2 x INTEL XEON E5504 2.00GHz	2 x INTEL XEON E5504 2.00GHz	INTEL XEON® E5 2620 v4 2.10GHz	2 X INTEL XEON 5506E 2.0GHz	2 x INTEL XEON 5506E 2.2GHz	2 X INTEL XEON 5506E 2.2GHz	Not Seen through OS	2 X INTEL XEON
RAM	20GB	4GB	64GB	4GB	4GB	6GB	Not Seen through OS	40GB
HDD	146 GB x 3	300GB x 4	600GB x 1, 4TB x 3	146GB x 3	146GB x 3	300GB x 3	4TB x 8	600GB x 4
Voice Board	N/A	N/A	N/A	N/A	N/A	Synway 4Port (All In Use)	N/A	N/A
Antivirus	Quick Heal Antivirus Server Edition version 17							Symantec Endpoint Protection 12.0
CPU Usage	24%	1%	14%	2%	1%	4%	Currently Not in use	Currently Not in use
RAM Memory Usage	12.6GB	1.68GB	34%(SQL 30%)	3.82GB(Full)	2GB	3.88GB(Full)	Currently Not in use	Currently Not in use

Purposed/Requirement of Upgradation

The proposed upgradation solution is provided on the basis of analysis made on the current data traffic, hardware age, and customer complaints. Existing setup was installed in year 2010 (10 years old). Therefore, it is required to upgrade the existing hardware and software to meet the current requirements and system security raised through this proposal.

Following points shall be addressed after upgrade:

- a) Loss of Voice Calls due to the limited number of recording channels at Store & Forward Server and PRI.
- b) Delay in CRI processing and Transfer.
- c) Sudden Hardware Failure, hindering normal working of the system.
- d) Degraded hardware and software performance.
- e) Shortage of storage space at each level of system architecture i.e., TSP store and forward and Central Site.
- f) Obsolete client OS windows XP, Vista & 7 and Window Server 2008.
- g) Obsolete Server and Client hardware

Upgradation Benefits:

➤ TSP Site:

- a) Existing Store and Forward Sever will be replaced with the Store and Forward Server with capability to record and handle 30x12(3x4Port)-Airtel, Vodaldea, Rjio& PRI and 30x4(1x4Port) for BSNL-WB, BSNL-Kol concurrent calls at time which is currently only 120 Channels at Airtel, Vodaldea, Rjio & PRI and 30 Channels at BSNL-WB & BSNL-Kol. This will drastically reduce the Voice Call Loss and will support current and future traffic load.

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- b) With increase of each server space at each service provider. We will have got more space for data storage.
- c) With increase of each port software related voice recording, processing and transfer will be upgraded and optimized for handling the increase daily traffic (Voice and CRI).
- d) Latest hardware will come with an extended life cycle for supporting easy availability for replacement spears.

➤ **CMC Site:**

- a) Storage space will be increased to cater the voice and CRI data for at least 1 year.
- b) With increased traffic, software related to data filtering, processing and transfer will be upgraded and optimized for handling the increased daily traffic.
- c) Latest hardware will come with an extended life cycle for supporting easy availability for replacement spears.
- d) Client Software (VerbaCENTRE) performance and response will be increased.

New improved version of client software (VerbaCENTRE) with new features, functionality and more stability to support latest Operating System.

Bill of Materials

Sl.	Particulars	Unit	Qty
Telecom Service Provider's Site (TSP 4x E1 Airtel -3, VodaIdea-3, Rjio-3, Bsnl-WB-1 and Bsnl-Kol-1)			
Store and Forward Server			
1	Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core RAM: 128 GB RAM HDD: 4x 4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit PCI-E slot for Voice Logger Card OS: Windows Server 2016 Standard Edition or Higher Version	Nos.	11
2	18" LCD Monitor with Keyboard & Mouse	Nos.	5
3	4 Port KVM Switch with accessories	Nos.	3
4	16 Port or higher Layer 3 Managed Switch	Nos.	3
5	22U Server Rack (2Nos. Horizontal Power Distribution Unit with 6 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug) and other necessary accessories.	Nos.	3
Central Monitoring Site (Central Monitoring Centre PRI)			
Store and Forward Server			
6	Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit PCI-E slot for Voice Logger Card	Nos.	3

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	OS: Windows Server 2016 Standard Edition or Higher Version		
Central Monitoring Centre Live System			
7	Mediation Server Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 128 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Dual Gigabit port Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 standard Edition or Higher Version	Nos.	5
8	Domain Server : Gen 10 or equivalent from any other reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	No	1
9	SDR DB Server : Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	No	1
10	SQL: MSSQL 2019 Standard Edition or Higher Version	License	1
11	LBS Processing and DB Server : Gen 10 or equivalent from any other reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	No	1
12	SQL: MSSQL 2019 Standard Edition or Higher Version	License	1
13	GPRS Processing Server Gen 10 or equivalent from any other reputed brand Processor: Dual Intel Xeon octa core processor, RAM: 64GB RAM, HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	Nos.	1
14	Central Database Server : Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon 16 Core Processor RAM: 128 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	No.	1
15	SQL: MSSQL 2019 Standard Edition or Higher Version	License	1

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16	MSSQL CAL License(For same SQL Version of Sl.No. 15)	License	30
17	Central Storage Server : SAN Storage With 120TB usable Storage Rack Mounting Kit	No.	1
18	Central Online Database Backup Server Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon 16 Core Processor RAM: 128 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	No.	1
19	SQL: MSSQL 2019 Standard Edition or Higher Version	License	1
20	Central Online Backup Storage Server : SAN Storage With 120TB usable Storage Rack Mounting Kit	No.	1
CMC - Kolkata offline Backup System			
21	Central Offline Database Backup Server : Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply Rack Mounting Kit OS: Windows Server 2016 Standard Edition or Higher Version	No.	1
22	Central Offline Backup Storage Server : SAN Storage With 120TB usable Storage Rack Mounting Kit	No.	1
CMC Accessories (Networking Equipment)			
23	24 Ports L3 Managed Network Switch	Nos.	5
24	UTM / Firewall for Network Security with 200MBPS speed and 200 Concurrent User License	Nos.	3
CMC Power Equipment's			
25	15KVA Online UPS with 30Mins Backup	Nos.	2
26	3KVA Online UPS with 30Mins Backup	No.	1
CMC Other Accessories			
27	Rack LCD Console (1U) with Accessories	Nos.	2
28	19" 42U Server Rack(2nos. of Horizontal Power Distribution Unit with 12 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug) with other necessary accessories	Nos.	2
29	19" 42U Server Rack(5nos. of shelf , 2nos. of Horizontal Power Distribution Unit with 12 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug) with other necessary accessories	Nos.	1
30	22U Server Rack (2Nos. Horizontal Power Distribution Unit with 6 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug) and other necessary accessories.	No.	1
31	16Port KVM Switch with Necessary Accessories	Nos.	2
32	Multifunction LaserJet Network Printer	Nos.	2
33	Antivirus Software Licenses	License	350
34	Network Accessories (24 Port Patch Panel)	Nos.	03
35	Desktop PC : Intel® Core™ i5-10500 (3.1 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), Intel chipset Intel® H470, 16 GB DDR4-2933 SDRAM (2 x 8 GB), 1TB SATA HDD, 23" TFT Monitor, Windows 10 Professional or Higher Version, 64 bit 3-in-1 SD card reader: Sold separately or as an optional feature.	Nos.	15

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	SuperSpeed USB 10Gbps signalling rate = USB3.2 Gen2. SuperSpeed USB 5Gbps signalling rate = USB3.2 Gen1. Micro Tower, 300 Watt SMPS,		
36	750VA UPS	Nos.	15
37	Head Phone(wired Good quality flexible headphone for Desktop)	Nos.	15
Service Installation and Commissioning			
38	3 TSP Sites with 3 Servers each	Job	1
39	2 TSPs Sites with 1 Servers each	Job	1
40	1 CMC Site with 15Servers and 3 SAN	Job	1
41	Network Testing Job (One Time) Network Vulnerability Assessment	Job	1

Note:

- 1) The bidders must bid under the scope of the tender. The BOQ for each items are indicated for IB WB above in the following section.
- 2) Bidders are required to quote the minimum quantity proposed in the BoQ.
- 3) Successful Bidder shall be required to make assessment of actual requirement during installation and make necessary arrangements to meet the actual requirements.
- 4) Bidders shall quote for 3 years comprehensive warranty maintenance support as indicated in the SOW.

Call Center - Setting up of support call center for reporting of fault. The call center will be functional in Govt. working days (10 am to 6 pm) and will register complaints from site. Adequate spare items has to be kept available for support services during 3 years.

Project Management – SI shall as part of the project implementation plan, setup a dedicated project management unit, with a program manager, with the following responsibilities:

- a. Planning project implementation
- b. Overseeing the project implementation and reporting on progress
- c. Coordinate with the WTL and IB-WB to ensure smooth installation and quick resolution of any issues during installation.
- d. Setup of the Support services and ensure SLAs are met.
- e. Monitoring the Support services as per the SLAs and reporting
- f. Coordinate with WTL/IB-WB Project team on a regular basis and provide support as and when necessary through the implementation partner.

1. Warranty and Comprehensive AMC Support – Comprehensive onsite Support meeting the SLAs defined in this document is required and bidders must comply with all the support requirements, for the following:

- Three years Product + Onsite Installation support warranty.

Bidder must provide documentary proof of support infrastructure and manpower (support engineers) for proper maintenance of the surveillance infrastructure installed at each site. A service support plan for meeting the SLAs for Warranty and CAMC shall be mandatory.

Project Implementation

The project implementation is the key aspect of the project. It is expected that the entire SITC should be completed by 120 days from PO date. The project implementation process shall be governed by an approved project implementation plan, by the IB-WB and the WTL PMU. A high level project implementation plan has to be submitted by the bidders. A detailed implementation plan shall be prepared by the WTL PMU which has to be implemented by the selected SI.

Repair Center

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

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SECTION – B

DATE AND TIME SCHEDULE

Tender Schedule

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	28.07.2022
2	Documents download/sale start date (Online)	28.07.2022
3	Last Date and time of sending the queries (Online)	03.08.2022 at 15.00 hrs.
4	Pre Bid Meeting at WTL Office (Online)	04.08.2022 at 11.30 hrs.
5	Corrigendum, if any will be published (On Line)	-
6	Bid Submission start date & time (On line)	10.08.2022 at 14.00 hrs.
7	Last Date & time of submission of Earnest Money Deposit & submission of remittance details	Before Uploading of Tender
8	Last Date & time of submission of Tender Fee & submission of remittance details	Before Uploading of Tender
9	Bid Submission closing date & time (On line)	16.08.2022 at 12.00 hrs.
10	Bid opening date & time for Technical Proposals (Online)	18.08.2022 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 – C

ELIGIBILITY CRITERIA

BIDDERS' ELIGIBILITY CRITERIA

1. The bidder must be a company registered under Companies Act, 1956/2013 or Partnership or LLP or OPC or Proprietary Firm. Documentary (Certificate of incorporation/Relevant document) evidence to be submitted.
2. The bidder must have the experience of supplying similar hardware. Relevant document to be submitted.
3. The bidder should have valid GST Registration Certificate & PAN. Bidder shall have to submit photocopy of the documents.
4. Bidder should have local representative at least two. Their name and number should be submitted on letter head having their details for local support and services.
5. The bidder shall have executed "Similar Nature" of minimum One order and amount not less than Rs.2.00 Crore in last 05 (Five) financial years (considering FY –2017-2018, 2018-2019, 2019-20, 2020-21, 2021-22) in Government Department/PSU. References order copy with the completion certificate for the project to be provided.
6. The bidder should have an average annual turnover of not less than Rs.15.00 Crore each year in the last three financial years (considering FY –2018-19, 2019-20, 2020-21)). Bidder shall have to submit Audited Balance Sheet / Audited Accounts / Auditor Certificate in support of their claim.
7. The bidder shall have Quality Certificate (ISO 9001:2015). The bidder has to ensure that the certificate remains valid during the life cycle of the project. Copy of Certificate to be submitted.
8. The bidder must submit the Manufacturers Authentication Form (MAF) for Servers, Switches, Antivirus and online UPS OEMs along with Technical Compliance statements. Without these documents from the OEMs, the offer will be treated as non-responsive and summarily rejected.
9. The bidder shall not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally. Declaration to be submitted in bidder letter head.
10. The bidder shall submit Bid Form (Section – F) duly signed by the authorized signatory of the company as per the format enclosed. Deviation in format may not be accepted.
11. Bidder shall submit NIT Declaration (Section – P) duly signed by the authorized signatory of the company as per the format. Deviation in format may not be accepted.

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SECTION – D

INSTRUCTIONS TO BIDDER

DEFINITIONS

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

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

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

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

“Contract” is used synonymously with Agreement.

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

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

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

“Installation” means installation of supplied Hardware & Software.

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

“GoI” shall stand for the Government of India.

“GoWB” means Government of West Bengal.

“IB” means Intelligence Branch

“CMS” means Call Monitoring System

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

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

“Project” Upgradation of Hardware and Software of VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal with 3 year Product and Onsite Installation warranty.

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

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

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

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

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

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

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

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

1. PRE-BID MEETING

Pre Bid Meeting will be held on 04.08.2022 at 11.30 hrs. (On-Line Meeting). Bidder can send their queries as per format (Section - K) to Manager (Purchase) (purchase@wtl.co.in). Only the queries received within the stipulated date prior to the Pre Bid Meeting will be answered. Interest bidders are requested to send mail to (purchase@wtl.co.in) for participation of online pre-bid meeting. Based on request WTL will share meeting id / links for meeting. If there is any change in date and time then will inform.

2. COST OF BIDDING

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

3. BID DOCUMENT

Bidder is expected to examine all instructions, forms, terms and requirement in the bid document. The invitation to bid together with all its attachment thereto shall be considered to be read, understood and accepted by the bidder unless deviations are specifically stated in the seriatim by the bidder. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result of the bid.

4. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, WTL reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

5. MODIFICATION AND WITHDRAWAL OF BIDS

The bidder cannot modify or withdraw its bid after submission.

6. LANGUAGE OF BID & CORRESPONDENCE

The proposal will be prepared by the Bidder in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & WTL will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

7. BIDDER'S SOLUTION

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

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care by the contractor to maintain the guaranteed uptime.

8. EARNEST MONEY DEPOSIT (EMD) & TENDER FEE

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

9. REFUND OF EMD

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

10. FORMS AND FORMATS

The various inputs for the Techno Commercial as Financial Bids are to be submitted in the format specified. The bidder shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the bidder shall design a form to hold the required information.

11. LACK OF INFORMATION TO BIDDER

The bidder shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the bidder of his responsibility to fulfill his obligation under the bid. If bidder has any queries relating to bid document, then he can send the queries before the Pre Bid Meeting.

12. CONTRACT EXECUTION

On receipt of the Letter of Award/Purchase Order the contractor should submit a Performance Bank Guarantee (PBG) equivalent to **3% of the total contract value** within three weeks from the date of receipt of Letter of Award/Purchase Order. The PBG should be valid for six months more than the warranty period. All delivery of the material will have to be completed within 45 days from the date of acceptance of contract and the contractor has to ensure all activities leading to the commissioning of the contract to be completed within 75 days from the date of award. Subsequent to the award of contract, the contractor will have to arrange for the requisite material as per BOM.

13. TIME SCHEDULE FOR DELIVERY & INSTALLATION

The Speed Detection & E-Ticketing System project for NKDA, shall commence on the award of the contract to the implementation partner through a selection process. The overall implementation of the 12 sites are estimated to be completed within 3 months from the award of the contract for SI partner, by WTL

14. LOCATION FOR DELIVERY & INSTALLATION

As mentioned in Section – A (Scope of Work)

15. LIQUIDATED DAMAGE / PENALTY

LD clause: 0.5% of the total Hardware bill value of this segment for every 7 Days delay in meeting the delivery schedule.

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.

16. LIABILITY

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

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

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17. PATENTS & COPYRIGHT

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

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

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

18. 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.

19. TERMS OF PAYMENT

Payment terms will be on back-to-back basis, i.e., payment will be made only on receipt of payment from customer. A scheduled payment for the supply, installation and warranty only, shall be made on back to back basis, by WTL, as depicted below:

- 70% of Project Value on delivery of hardware at site
- 20% of Project Value on prorated basis against Go-Live of locations.
- 10% for support and maintenance for 3 years (4% on completion of year 1, 3% of completion in year 2, 3% on completion of years 3) subject to adjustment of any penalties.

20. 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.

21. CORRUPT OR FRAUDULENT

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

22. BINDING CLAUSE

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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.

23. WORKMEN'S COMPENSATION

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

24. 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.

25. 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.

26. EQUIPMENT

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

27. SUB-CONTRACT/CONSORTIUM

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

28. 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.

29. 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

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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.

30. FORCE MAJEURE

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

- War, Hostilities or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war.
- Rebellion, revolution, insurrection, mutiny, usurpation of civil or military, government, conspiracy, riot, civil commotion and terrorist area.
- Confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de facto authority or ruler, or any other act or failure to act of any local state or national government authority.

- Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage of power supply epidemics, quarantine and plague.
- Earthquake, landslide, volcanic activity, Accidental damage, Internal sabotage, fire flood or inundation, tidal wave, typhoon or cyclone, hurricane, Lockdown due to pandemic, nuclear and pressure waves or other natural or physical disaster.

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

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

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

- Constitute a default or breach of the contract.
- Give rise to any claim from damages or additional cost or expense occurred by the delay or nonperformance. If, and to the extent, that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

31. 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.

32. WARRANTY & MAINTENANCE

- Contractor will have to provide comprehensive warranty on all components including software from the date of go-live of the solution.
 - 3 years Comprehensive Warranty of all products & onsite maintenance support
- Bidder should maintain sufficient stock of spares with them even after the expiry of the warranty period.
- The Contractor is liable for repairing all or any sort of damage detected during the warranty period completed free of cost.

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- During the warranty period, no active component should be declared “End of Life”. In case it is declared “End of Life” during this period, the vendor has to replace such equipment at their own cost.

33. PERFORMANCE BANK GUARANTEE (PBG)

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

34. SI/BIDDER/CONTRACTOR'S RESPONSIBILITIES

Refer Section – A (Scope of Work)

35. 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.

36. GRAFTS, COMMISSIONS, GIFTS, ETC.

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

37. 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.

38. 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.

39. TAXES & DUTIES

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

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40. 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.

41. BID DUE DATE

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

42. LATE BID

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

43. OPENING OF BID BY WTL

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

44. CONTACTING WTL

Bidders 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 a successful bidder. Any effort by a 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 must be in writing following the procedure mentioned hereinabove.

45. 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.

46. BID CURRENCIES

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

47. 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.

48. 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 his name from the register of approved Contractors.

49. NON-TRANSFERABILITY OF TENDER

This tender document is not transferable.

50. FORMATS AND SIGNING OF BID

The original and all copies of the proposals shall be neatly typed and shall be signed by an authorized signatory(ies) on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. All pages of the proposal, except for un-amended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erasing 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.

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51. 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.

52. 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.

53. 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.

54. PREPARATION OF TENDER

Tender shall be submitted in accordance with the following instructions:

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

55. PRE-DISPATCH INSTRUCTION

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

56. FINAL INSPECTION

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

57. 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.

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 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. 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.

60. CLARIFICATION OF BIDS

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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.

61. QUALITY CONTROL

- The contractor is obliged to work closely with WTL and/or NKDA., act within its authority and abide by directive issued by them on implementation activities.
- The contractor will abide by the safety measures and free WTL and NKDA. from all demands or responsibilities arising from accident/loss of life, the cause of which is due to their negligence. The bidder will pay all indemnities arising from such incidents and will not hold WTL and NKDA. 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/ NKDA.
- 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.

62. CONSORTIUM/JV:

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

63. GENERAL TERMS

- a) All the documents to be submitted by the bidder along with their offer should be duly authenticated by the person signing the offer and if at any point of time during procurement process or subsequently it is detected that documents submitted are forged/tampered/manipulated in any way, the total responsibility lies with the bidder and WTL reserves the full right to take action as may be deemed fit including rejection of the offer and such case is to be kept recorded for any future dealing with them.
- b) No Technical/Commercial clarification will be entertained after opening of the tender.
- c) Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. WTL reserve the right to increase or decrease the quantity specified in the tender.
- d) WTL reserve the right to reject or accept or withdraw the tender in full or part as the case may be without assigning the reasons thereof. No dispute of any kind can be raised the right of buyer in any court of law or elsewhere.
- e) WTL reserve the right to ask for clarification in the bid documents submitted by the bidder. Documents may be taken if decided by the committee.
- f) Supporting technical brochures/catalogues indicating each feature in respect of offered model and make must be submitted along with the offer, in absence of which the offer is liable to be ignored.
- g) No dispute by the bidders in regard to Technical/Commercial points will be entertained by WTL and decision taken by the Tender Committee will be final.
- h) Discrepancy in the amount quoted by the bidder due to calculation mistake, the unit rate shall be regarded as firm and the totaling or carry in the amount quoted by the bidder shall be corrected accordingly.
- i) The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.
- j) The acceptance of the tender will rest with the accepting authority who is not bound to accept the lowest or any tender and reserves the right to reject in part or in full any or all tender(s) received and to split up the work among participants without assigning any reason thereof.
- k) The customer/WTL at its discretion may extend the deadline for the submission of Bids.
- l) The Court of Kolkata only will have the jurisdiction to deal with and decide any legal matters or dispute whatsoever arising out of the contract.
- m) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

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SECTION – E

TECHNO COMMERCIAL EVALUATION & AWARDING OF CONTRACT

Evaluation Procedure

- The Eligibility Criteria (Section - C) will be evaluated by Tender Committee and those qualify will be considered for further evaluation.
- The Tender Committee shall verify the Technical Specification (Technical Specification with Compliance Statement, (Section – N) Deviation in specification shall not be allowed. Bidder qualified in Technical Specification shall be considered for further evaluation.
- After qualifying in Technical Specification, qualified bidders will only be considered for Financial Bid evaluation.
- The bidders will be evaluated on Eligibility Criteria for Bidder and OEMs proposed, and the technical solution proposed. Bidders with 100% compliance will be eligible for price bid evaluation.
- The basis of price bid evaluation shall be “Lowest Competitive Price Bid” for BOQ specified.

AWARDING OF CONTRACT

An affirmative Post Qualification determination will be prerequisite for award of the contract to the most overall responsive bidder.

This is a turnkey job in a nature, so bidder(s) to quote all the items mentioned in the tender document. The successful bidder (s) will have to give security deposit in the form of Performance Bank Guarantee, for the respective Zones for which they shall be awarded the contract.

POST QUALIFICATION

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

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SECTION – F

BID FORM

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

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

Sub: Upgradation of Hardware and Software of VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal with 3 year Product and Onsite Installation warranty.

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/IB/CMS/22-23/016 dated 28.07.2022, do hereby propose to execute the job as per specification as set forth in your Bid documents.
2. The prices of all items stated in the bid are firm during the entire period of job irrespective of date of completion and not subject to any price adjusted as per in line with the bidding documents. All prices and other terms & conditions of this proposal are valid for a period of 180 (one hundred eighty) days from the date of opening of bid. We further declare that prices stated in our proposal are in accordance with your bidding.
3. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipment and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
4. Earnest Money Deposit: We have transferred Tender Fee & EMD amount online through e-Tender portal.
5. We declare that items shall be executed strictly in accordance with the specifications and documents irrespective of whatever has been stated to the contrary anywhere else in our proposal. Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our deviation schedule, save that pertaining to any rebates offered shall not be given effect to.
6. If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal. We fully understand that the work completion schedule stipulated in the proposal is the essence of the job, if awarded.
7. We further agree that if our proposal is accepted, we shall provide a Performance Bank Guarantee of the value equivalent to ten percent (3%) of the Order value as stipulated in Financial Bid (BOQ).
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 of2022

Thanking you, we remain,
Yours faithfully

WEBEL TECHNOLOGY LIMITED

.....
Signature

.....
Name in full

.....
Designation

Signature & Authorized Verified by

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

WEBEL TECHNOLOGY LIMITED

SECTION – 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 enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in>. The Bidder is to click on the link for e-Tendering site as given on the web portal.

2. Digital Signature Certificate (DSC):

Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated above. DSC is given as a USB e-Token.

3. The Bidder can search & download N.I.T. & BOQ electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

4. Participation in more than one work:

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If, found to be applied severally in a single job all the applications will be rejected.

5. Submission of Tenders:

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

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

Techno Commercial Cover:

Technical Document1

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

Technical Document2

1. Copy of N I T duly stamped & signed (Section – P)
2. Required documents

Technical Compliance

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

Financial Cover:

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

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

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

Sl. No.	Category Name	Sub Category Name	Sub Category Description
A	CERTIFICATES	A1. CERTIFICATES	<ul style="list-style-type: none"> • GST Certificate, • Trade License • PAN
B	COMPANY DETAILS	B1. COMPANY DETAILS 1	<ul style="list-style-type: none"> • Documents as required
		B2. COMPANY DETAILS 2	<ul style="list-style-type: none"> • Company Profile • As required
C	CREDENTIAL	CREDENTIAL 1	<ul style="list-style-type: none"> • Order copies as per Section - C
		CREDENTIAL 2	<ul style="list-style-type: none"> • Product brochure • Other documents, if any
D	DECLARATION	DECLARATION 1	Document as required
		DECLARATION 2	<ul style="list-style-type: none"> • Technical Capability of the Bidder as per format (Section – H) • Financial Capability of Bidder as per format (Section – I)
		DECLARATION 3	<ul style="list-style-type: none"> • Client details as per format (Section – Q)
		DECLARATION 4	Document as required
		DECLARATION 5	Document as required
F	FINANCIAL INFO	P/L & BALANCE SHEET 2018-2019	P/L & BALANCE SHEET 2018-2019
		P/L & BALANCE SHEET 2019-2020	P/L & BALANCE SHEET 2019-2020
		P/L & BALANCE SHEET 2020-2021	P/L & BALANCE SHEET 2020-2021

WEBEL TECHNOLOGY LIMITED

SECTION – H

FORMAT FOR TECHNICAL CAPABILITY OF BIDDER

(Tender No. WTL/IB/CMS/22-23/016)

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Note:

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

WEBEL TECHNOLOGY LIMITED

SECTION - I

FORMAT FOR FINANCIAL CAPABILITY OF BIDDER

(Tender No. WTL/IB/CMS/22-23/016)

FINANCIAL INFORMATION

Sl. No.	Name of the Bidder	Turnover (Rs. / Crores)		
		2018-2019	2019-2020	2010-2021
1				

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

Note:

Submit the Audited Financial Statement / Audited Accounts of the last three financial years.

WEBEL TECHNOLOGY LIMITED

SECTION – J

FORMAT FOR BIDDER'S DETAILS

(Tender No. WTL/IB/CMS/22-23/016)

1	Name of the Firm	
2	Registered Office Address	
	Contact Number	
	Fax Number	
	E-mail	
3	Correspondence / Contact address	
	Name & Designation of Contact person	
	Address	
	Contact Number	
	Fax Number	
4	E-mail	
	Is the firm a registered company? If yes, submit documentary proof	
	Year and Place of the establishment of the company	
5	Former name of the company, if any	
6	Is the firm <ul style="list-style-type: none">▪ a Government/ Public Sector Undertaking▪ a propriety firm▪ a partnership firm (if yes, give partnership deed)▪ a limited company or limited corporation▪ a member of a group of companies, (if yes, give name and address and description of other companies)▪ a subsidiary of a large corporation (if yes give the name and address of the parent organization). If the company is subsidiary, state what involvement if any, will the parent company have in the project.	
7	Is the firm registered with Sales Tax department? If yes, submit valid VAT Registration certificate.	
8	Is the firm registered for Service Tax with Central Excise Department (Service Tax Cell)? If yes, submit valid Service Tax registration certificate.	
9	Total number of employees. Attach the organizational chart showing the structure of the organization.	
10	Are you registered with any Government/ Department/ Public Sector Undertaking (if yes, give details)	
11	How many years has your organization been in business under your present name? What were your fields when you established your organization	
12	What type best describes your firm? (Purchaser reserves the right to verify the claims if necessary) <ul style="list-style-type: none">▪ Manufacturer▪ Supplier▪ System Integrator▪ Consultant▪ Service Provider (Pl. specify details)▪ Software Development▪ Total Solution provider (Design, Supply, Integration, O&M)▪ IT Company	
13	Number of Offices in district head quarters in West Bengal	
14	Is your organization has ISO 9001:2015 certificates?	
15	List the major clients with whom your organization has been / is currently associated.	
16	Have you in any capacity not completed any work awarded to you? (If so, give the name of project and reason for not completing the work)	
17	Have you ever been denied tendering facilities by any Government / Department / Public sector Undertaking? (Give details)	

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – K

FORMAT FOR PRE-BID MEETING QUERIES

(Tender No. WTL/IB/CMS/22-23/016)

Name of the Bidder:

Queries

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

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

WEBEL TECHNOLOGY LIMITED

SECTION – I

PROFORMA FOR PERFORMANCE BANK GUARANTEE

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

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

Ref Bank Guarantee no.....

Date.....

PROFORMA OF BG FOR SECURITY DEPOSIT

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

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

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

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

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

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

WEBEL TECHNOLOGY LIMITED

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

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

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

this _____ day of _____.

SIGNED, SEALED AND DELIVERED

WITNESS

1) _____

(Stamp of the executants)

2) _____
(Name & address in full with
Rubber Stamp)

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 Nationalized Bank/ Scheduled Commercial Bank preferably on a branch located in Kolkata. B.G. from Co-operative Bank / Rural Banks is not acceptable.
4. A Confirmation Letter of the concerned Bank must be furnished as a proof of genuineness of the Guarantee issued by them.
5. Any B.G. if executed on Non-Judicial Stamp paper after 6 (six) months of the purchase of such stamp shall be treated as Non-valid.
6. Each page of the B.G. must bear signature and seal of the Bank and B.G. Number.
7. The content of the B.G. shall be strictly as Proforma prescribed by WTL in line with Purchase Order /LOI/ Work Order etc. and must contain all factual details.
8. Any correction, deletion etc. in the B.G. should be authenticated by the Bank Officials signing the B.G.
9. In case of extension of a Contract the validity of the B.G. must be extended accordingly.
10. B.G. must be furnished within the stipulated period as mentioned in Purchase Order / LOI / Work Order etc.
11. Issuing Bank / The Vendor are requested to mention the Purchase Order / Contract / Work Order reference along with the B. G. No. for making any future queries to WTL

WEBEL TECHNOLOGY LIMITED

SECTION – M

MAKE, MODEL & PART NUMBER

(Tender No. WTL/IB/CMS/22-23/016)

Sl.	Particulars	Unit	Qty	Make	Model	Part No.
Telecom Service Provider`s Site (TSP 4xE1 Airtel -3, Vodafdea-3, Rjio-3, Bsnl-WB-1 and Bsnl-Kol-1)						
Store and Forward Server						
1	Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core RAM: 128 GB RAM HDD: 4x 4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	Nos.	11			
2	18" LCD Monitor with Keyboard & Mouse	Nos.	5			
3	4 Port KVM Switch	Nos.	3			
4	16 Port Layer 3 Managed Switch	Nos.	3			
5	21 U Server Rack with accessories	Nos.	3			
Central Monitoring Site (Central Monitoring Centre PRI)						
Store and Forward Server						
6	Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	Nos.	3			
Central Monitoring Centre Live System						
7	Mediation Server Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 128 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Dual Gigabit port Power Supply: Redundant power supply OS: Windows Server 2016	Nos.	5			
8	Domain Server : Gen 10 or equivalent from any other reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit	No	1			

WEBEL TECHNOLOGY LIMITED

	Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition					
9	SDR DB Server : Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	No	1			
10	SQL: MSSQL 2019 Standard	No	1			
11	LBS Processing and DB Server : Gen 10 or equivalent from any other reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	No	1			
12	SQL: MSSQL 2019 Standard	No	1			
13	GPRS Processing Server : Model : Gen 10 or equivalent, Intel Xeon octa core processor, RAM: 64GB RAM, HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	Nos.	1			
14	Central Database Server : Gen 10 or equivalent from any other reputed brand Processor: Dual Intel Xeon 16 Core Processor RAM: 128 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	No.	1			
15	SQL: MSSQL 2019 Standard	No.	1			
16	MSSQL 2019 Standard Edition CAL License	Nos.	30			

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17	Central Storage Server : SAN Storage With 120TB usable Storage	No.	1		
18	Central Online Database Backup Server Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon 16 Core Processor RAM: 128 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	No.	1		
19	SQL: MSSQL 2019Standard	No.	1		
20	Central Online Backup Storage Server : SAN Storage With 120TB usable Storage	No.	1		
CMC - Kolkata offline Backup System					
21	Central Offline Database Backup Server : Gen 10 or equivalent from any reputed brand Processor: Dual Intel Xeon Octa Core Processor RAM: 64 GB RAM HDD: 4x2.4TB SAS Hard Disks in RAID 5 configuration Ethernet: Quad Port Gigabit Power Supply: Redundant power supply OS: Windows Server 2016 Standard Edition	No.	1		
22	Central Offline Backup Storage Server SAN Storage With 120TB usable Storage	No.	1		
CMC Accessories (Networking Equipments)					
23	24 Ports L3 Managed Network Switch	Nos.	5		
24	UTM / Firewall for Network Security	Nos.	3		
CMC Power Equipment's					
25	15KVA Online UPS with 30Mins Backup	Nos.	2		
26	3KVA Online UPS with 30Mins Backup	No.	1		
CMC Other Accessories					
27	Rack LCD Conole (1U) with Accessories	Nos.	2		
28	42U Server Rack with Accessories	Nos.	3		
29	21U Server Rack with accessories	No.	1		
30	16Port KVM Switch with Accessories	Nos.	2		
31	LaserJet Network Printer	Nos.	2		
32	Antivirus Software Licenses As when required	Nos.	350		
33	Desktop PC : Intel® Core™ i5-10500 (3.1 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), Intel chipset Intel® H470, 16 GB DDR4-2933 SDRAM (2 x 8 GB), 1TB SATA HDD, 23" TFT Monitor, Windows 10 Professional or Higher Version, 64 bit 3-in-1 SD card reader: Sold separately or as an optional	Nos.	15		

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	feature. SuperSpeed USB 10Gbps signalling rate = USB3.2 Gen2. SuperSpeed USB 5Gbps signalling rate = USB3.2 Gen1. Micro Tower, 300 Watt SMPS,					
34	600VA UPS	Nos.	15			
35	Head Phone	Nos.	15			

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Company Rubber Stamp: _____

WEBEL TECHNOLOGY LIMITED

SECTION – N

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT

(Tender No. WTL/IB/CMS/22-23/016)

Store and Forward server

Eligibility Criteria for Store and Forward Server OEM:

SL	Eligibility Criteria	Compliance with Document
1	The OEM should be an established Company registered under the – Indian Companies Act, 1956/2013, or partnership firm register under LLP Act, 2008 since last 10 years as on 31st March 2022.	
2	The OEM's average annual turnover from (i) IT System Integration / Software engineering & customization / Sale of IT system like Networking systems, Servers, Cloud Computing System, Cyber Security systems, Storage Systems, Tape Library, Backup solution, SAN and other Data Center ICT Infrastructure components AND (ii) IT Services (Consulting / Facility Management Services / IT Support etc.) should be average (INR) 1500 crores in last three financial years.	
3	The net worth of the Bidder should be Positive for last three years, as on 31st March 2022 and should be profitable for each of the last three financial years.	
4	The OEM must have following Certificates a. a. ISO 9001:2015 b. ISO/IEC 20000 : 2018 c. ISO/IEC 27001:2015 d. CMM Level-5.	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted Store and Forward Server

Qty.	
Make	
Model	
Part No.	

Specifications

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Chassis	2U Rack Mountable		
2	CPU	Two numbers of Intel Xeon S-4309Y, 8-core, 2.8 GHz processors		
3	Memory	32 DIMM slots. 128 GB DIMMS scalable upto 2.0TB using DDR4 operating at 3200 MT/s		
4	Hard Disk Drive	4 Nos 4TB SAS HDD in RAID-5		
5	Controller	Server should support one of the below controllers, must support Mixed Mode which combines RAID and HBA mode operation simultaneously :		

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		<p>PCIe 4.0 based x16 RAID controller with 8GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 32 SAS/SATA/NVME lanes supporting up to 32 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller, supporting RAID 0, 1, 10 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring (onboard or on a PCI Express slot), Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or on a PCI Express slot) Storage controller should support Secure encryption/data at rest</p>		
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		Encryption		
6	Networking features	<p>Server should support below networking cards:</p> <ol style="list-style-type: none"> 1. 1Gb 4-port network adaptors 2. 10Gb 2-port Ethernet adaptor 3. 10Gb 4-port Ethernet Adapter 4. 10GBaseT 2-port Ethernet adaptor 5. 10/25Gb 2-port SFP28 Ethernet adaptor 6. 10/25Gb 4-port SFP28 Ethernet adaptor 7. 100Gb QSFP28 Ethernet 8. 100Gb 2-port QSFP56 Ethernet 9. 200Gb QSFP56 Ethernet 9. Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card <p>Infiniband Options: 100Gb or 200Gb Single or Dual port Adapter</p>		
7	Interfaces	<p>Serial - 1 (Optional) USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p>		
8	Bus Slots	Server should support upto eight PCI-Express 4.0 slots, atleast two x16 PCIe slots		
9	Power Supply	Should supply hot plug redundant low halogen power supplies with minimum 94% efficiency		
10	Industry Standard Compliances	<p>ACPI 6.3 Compliant PCIe 4.0 Compliant WOL Support Microsoft® Logo certifications PXE Support USB 3.0 Compliant Energy Star SMBIOS 3.2 Redfish API IPMI 2.0 Secure Digital 4.0 TPM 1.20 and 2.0 Support Advanced Encryption Standard (AES) Triple Data Encryption Standard (3DES) SNMP v3 TLS 1.2 DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP) Active Directory v1.0 ASHRAE A3/A4 UEFI (Unified Extensible Firmware Interface Forum) 2.6</p>		

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11	System Securities	<p>UEFI Secure Boot and Secure Start support Tamper-free updates – components digitally signed and verified Immutable Silicon Root of Trust Ability to rollback firmware FIPS 140-2 validation Secure erase of NAND/User data Common Criteria certification TPM (Trusted Platform Module) 1.2 option Configurable for PCI DSS compliance TPM (Trusted Platform Module) 2.0 option Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser Bezel Locking Kit option Support for Commercial National Security Algorithms (CNSA) Chassis Intrusion detection option Secure Recovery – recover critical firmware to known good state on detection of compromised firmware</p>		
12	Embedded Remote Management and firmware security	<ol style="list-style-type: none"> 1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication 2. Server should have dedicated 1Gbps remote management port 3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware 3. Server should support agentless management using the out-of-band remote management port 4. 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 5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available 6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - 		

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		<p>Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.</p> <p>7. Should support managing multiple servers as one via Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media and Encrypted Virtual Media Group License Activation</p> <p>8. Should support RESTful API integration</p> <p>9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p> <p>10. Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features.</p> <p>11. One-button Secure Erase designed to decommission/repurpose servers</p> <p>12. NVMe wear level display</p> <p>13. Workload Performance Advisor - Provides server tuning recommendations to improve server performance</p>		
13	Warranty	3 Years Comprehensive Warranty		
14	Cloud Enabled Monitoring and Analytics	<p>1. Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <p>a. Providing Firmware upgrade and patch upgrade recommendations proactively.</p> <p>b. Providing power and support entitlement status.</p> <p>c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive</p>		

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		<p>recommendation for arresting the issues / problems.</p> <p>d. Automatic creation of support cases</p> <p>e. Detection of the Service Pack for Server and notifications for any hotfixes that may be available for the particular Configuration.</p> <p>f. Customer advisories based on their relevance to server configuration.</p> <p>g. Should have continuous, proactive health monitoring and recording of required system parameters as well as diagnostic telemetry data on a 24x7 basis.</p> <p>h. Should have monitoring & analytics feature for the offered server/chassis along with its sub-components to predict, prevent, and auto-resolve problems and by providing automating case creation and log file submission for the problems that can't be autoresolved.</p>		
15	Secure encryption	System should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.		
16	Firmware security	<p>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</p> <p>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</p>		
17	Provisioning	<p>1. Should support tool to provision server using RESTful API to discover and deploy servers at scale</p> <p>2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell</p>		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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Store and Forward Server - Specification

Central Site(Store and Forward server-PRI and Offline Central Server)

Eligibility Criteria for Central Site Store and Forward Server –PRI, OEM:

SL	Eligibility Criteria	Compliance with Document
1	The OEM should be an established Company registered under the – Indian Companies Act, 1956/2013, or partnership firm register under LLP Act, 2008 since last 10 years as on 31st March 2022.	
2	The OEM's average annual turnover from (i) IT System Integration / Software engineering & customization / Sale of IT system like Networking systems, Servers, Cloud Computing System, Cyber Security systems, Storage Systems, Tape Library, Backup solution, SAN and other Data Center ICT Infrastructure components AND (ii) IT Services (Consulting / Facility Management Services / IT Support etc.) should be average (INR) 1500 crores in last three financial years.	
3	The net worth of the Bidder should be Positive for last three years, as on 31st March 2022 and should be profitable for each of the last three financial years.	
4	The OEM must have following Certificates a. a. ISO 9001:2015 b. ISO/IEC 20000 : 2018 c. ISO/IEC 27001:2015 d. CMM Level-5.	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted Central Site Store and Forward Server-PRI and offline Central Server

Qty.	
Make	
Model	
Part No.	

Store and Forward Server (PRI) and Offline Central Server- Specification

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Chassis	2U Rack Mountable		
2	CPU	Two numbers of Intel Xeon S-4309Y, 8-core, 2.8 GHz processors		
3	Memory	32 DIMM slots. 64 GB DIMMS scalable upto 2.0TB using DDR4 operating at 3200 MT/s		
4	Hard Disk Drive	4 Nos 2.4TB SAS HDD in RAID-5		
5	Controller	Server should support one of the below controllers, must support Mixed Mode which combines RAID and HBA mode operation simultaneously :		

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		<p>PCIe 4.0 based x16 RAID controller with 8GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 32 SAS/SATA/NVME lanes supporting up to 32 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller, supporting RAID 0, 1, 10 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring (onboard or on a PCI Express slot), Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or on a PCI Express slot) Storage controller should support Secure encryption/data at rest Encryption</p>		
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6	Networking features	<p>Server should support below networking cards:</p> <ol style="list-style-type: none"> 1. 1Gb 4-port network adaptors 2. 10Gb 2-port Ethernet adaptor 3. 10Gb 4-port Ethernet Adapter 4. 10GBaseT 2-port Ethernet adaptor 5. 10/25Gb 2-port SFP28 Ethernet adaptor 6. 10/25Gb 4-port SFP28 Ethernet adaptor 7. 100Gb QSFP28 Ethernet 8. 100Gb 2-port QSFP56 Ethernet 9. 200Gb QSFP56 Ethernet 9. Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card <p>Infiniband Options: 100Gb or 200Gb Single or Dual port Adapter</p>		
7	Interfaces	<p>Serial - 1 (Optional) USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p>		
8	Bus Slots	<p>Server should support upto eight PCI-Express 4.0 slots, atleast two x16 PCIe slots</p>		
9	Power Supply	<p>Should supply hot plug redundant low halogen power supplies with minimum 94% efficiency</p>		
10	Industry Standard Compliances	<p>ACPI 6.3 Compliant PCIe 4.0 Compliant WOL Support Microsoft® Logo certifications PXE Support USB 3.0 Compliant Energy Star SMBIOS 3.2 Redfish API IPMI 2.0 Secure Digital 4.0 TPM 1.20 and 2.0 Support Advanced Encryption Standard (AES) Triple Data Encrytion Standard (3DES) SNMP v3 TLS 1.2 DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP) Active Directory v1.0 ASHRAE A3/A4 UEFI (Unified Extensible Firmware Interface Forum) 2.6</p>		

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11	System Securities	<p>UEFI Secure Boot and Secure Start support Tamper-free updates – components digitally signed and verified Immutable Silicon Root of Trust Ability to rollback firmware FIPS 140-2 validation Secure erase of NAND/User data Common Criteria certification TPM (Trusted Platform Module) 1.2 option Configurable for PCI DSS compliance TPM (Trusted Platform Module) 2.0 option Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser Bezel Locking Kit option Support for Commercial National Security Algorithms (CNSA) Chassis Intrusion detection option Secure Recovery – recover critical firmware to known good state on detection of compromised firmware</p>		
12	Embedded Remote Management and firmware security	<ol style="list-style-type: none"> 1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication 2. Server should have dedicated 1Gbps remote management port 3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware 3. Server should support agentless management using the out-of-band remote management port 4. 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 5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available 6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - 		

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		<p>Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.</p> <p>7. Should support managing multiple servers as one via Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media and Encrypted Virtual Media Group License Activation</p> <p>8. Should support RESTful API integration</p> <p>9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p> <p>10. Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features.</p> <p>11. One-button Secure Erase designed to decommission/repurpose servers</p> <p>12. NVMe wear level display</p> <p>13. Workload Performance Advisor - Provides server tuning recommendations to improve server performance</p>		
13	Warranty	3 Years Comprehensive Warranty		
14	Cloud Enabled Monitoring and Analytics	<p>1. Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <p>a. Providing Firmware upgrade and patch upgrade recommendations proactively.</p> <p>b. Providing power and support entitlement status.</p> <p>c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive</p>		

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		<p>recommendation for arresting the issues / problems.</p> <p>d. Automatic creation of support cases</p> <p>e. Detection of the Service Pack for Server and notifications for any hotfixes that may be available for the particular Configuration.</p> <p>f. Customer advisories based on their relevance to server configuration.</p> <p>g. Should have continuous, proactive health monitoring and recording of required system parameters as well as diagnostic telemetry data on a 24x7 basis.</p> <p>h. Should have monitoring & analytics feature for the offered server/chassis along with its sub-components to predict, prevent, and auto-resolve problems and by providing automating case creation and log file submission for the problems that can't be autoresolved.</p>		
15	Secure encryption	System should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.		
16	Firmware security	<p>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</p> <p>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</p>		
17	Provisioning	<p>1. Should support tool to provision server using RESTful API to discover and deploy servers at scale</p> <p>2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell</p>		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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Mediation server

Eligibility Criteria for Mediation Server OEM:

SL	Eligibility Criteria	Compliance with Document
1	The OEM should be an established Company registered under the – Indian Companies Act, 1956/2013, or partnership firm register under LLP Act, 2008 since last 10 years as on 31st March 2022.	
2	The OEM's average annual turnover from (i) IT System Integration / Software engineering & customization / Sale of IT system like Networking systems, Servers, Cloud Computing System, Cyber Security systems, Storage Systems, Tape Library, Backup solution, SAN and other Data Center ICT Infrastructure components AND (ii) IT Services (Consulting / Facility Management Services / IT Support etc.) should be average (INR) 1500 crores in last three financial years.	
3	The net worth of the Bidder should be Positive for last three years, as on 31st March 2022 and should be profitable for each of the last three financial years.	
4	The OEM must have following Certificates a. a. ISO 9001:2015 b. ISO/IEC 20000 : 2018 c. ISO/IEC 27001:2015 d. CMM Level-5.	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted Mediation Server

Qty.	
Make	
Model	
Part No.	

Specifications

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Chassis	1U Rack Mountable		
2	CPU	Two numbers of Intel Xeon S-4309Y, 8-core, 2.8 GHz processors		
3	Memory	32 DIMM slots. 128 GB DIMMS scalable upto 2.0TB using DDR4 operating at 3200 MT/s		
4	Hard Disk Drive	4 Nos 2.4TB SAS HDD in RAID-5		
5	Controller	Server should support two M.2 drives OS Boot Device with Hardware RAID 1 In addition, Server should support one of the below controllers, must support Mixed Mode which combines RAID and HBA mode operation simultaneously : PCIe 4.0 based x16 RAID controller with 8GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 32 SAS/SATA/NVME lanes		

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		<p>supporting up to 32 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller, supporting RAID 0, 1, 10 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring (onboard or on a PCI Express slot), Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or on a PCI Express slot)</p> <p>Storage controller should support Secure encryption/data at rest Encryption</p>		
6	Networking features	<p>Server should support below networking cards:</p> <ol style="list-style-type: none"> 1. 1Gb 4-port network adaptors 2. 10Gb 2-port Ethernet adaptor 3. 10Gb 4-port Ethernet Adapter 4. 10GBaseT 2-port Ethernet adaptor 5. 10/25Gb 2-port SFP28 Ethernet adaptor 6. 10/25Gb 4-port SFP28 Ethernet adaptor 7. 100Gb QSFP28 Ethernet 8. 100Gb 2-port QSFP56 Ethernet 9. 200Gb QSFP56 Ethernet 9. Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card <p>Infiniband Options: 100Gb or 200Gb Single or Dual port Adapter</p>		
7	Interfaces	<p>Serial - 1 (Optional)</p> <p>USB 3.0 support With Up to 5 total: 1 front, 2</p>		

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		internal, 2 rear, 2 internal		
8	Bus Slots	Server should support upto three PCI-Express 3.0 slots, atleast two x16 PCIe slots		
9	Power Supply	Should supply hot plug redundant low halogen power supplies with minimum 94% efficiency		
10	Industry Standard Compliances	<p>ACPI 6.3 Compliant</p> <p>PCIe 4.0 Compliant</p> <p>WOL Support</p> <p>Microsoft® Logo certifications</p> <p>PXE Support</p> <p>USB 3.0 Compliant</p> <p>USB 2.0 Compliant (only on optional Universal Media Bay)</p> <p>SMBIOS 3.2</p> <p>Redfish API</p> <p>IPMI 2.0</p> <p>Secure Digital 4.0</p> <p>TPM 1.2 and 2.0 support</p> <p>Advanced Encryption Standard (AES)</p> <p>Triple Data Encryption Standard (3DES)</p> <p>SNMP v3</p> <p>TLS 1.2</p> <p>DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP)</p> <p>Active Directory v1.0</p> <p>ASHRAE A3/A4</p> <p>UEFI (Unified Extensible Firmware Interface Forum) 2.6</p>		
11	System Securities	<p>UEFI Secure Boot and Secure Start support</p> <p>Immutable Silicon Root of Trust</p> <p>FIPS 140-2 validation</p> <p>Common Criteria certification</p> <p>Configurable for PCI DSS compliance</p> <p>Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser</p> <p>Support for Commercial National Security Algorithms (CNSA)</p> <p>iLO Security Modes</p> <p>Granular control over iLO interfaces</p> <p>Smart card (PIV/CAC) and Kerberos based 2-factor Authentication</p> <p>Tamper-free updates - components digitally signed and verified</p> <p>Secure Recovery - recover critical firmware to known good state on detection of compromised FW</p> <p>Ability to rollback firmware</p> <p>Secure erase of NAND</p> <p>TPM (Trusted Platform Module)</p> <p>Bezel Locking Kit</p> <p>Chassis Intrusion detection option</p>		
12	Embedded Remote Management and firmware security	<p>1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication</p>		

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		<p>2. Server should have dedicated 1Gbps remote management port</p> <p>3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware</p> <p>3. Server should support agentless management using the out-of-band remote management port</p> <p>4. 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</p> <p>5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available</p> <p>6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.</p> <p>7. Should support managing multiple servers as one via</p> <ul style="list-style-type: none"> Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media and Encrypted Virtual Media Group License Activation <p>8. Should support RESTful API integration</p> <p>9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p> <p>10. Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features.</p> <p>11. One-button Secure Erase designed to decommission/repurpose servers</p> <p>12. NVMe wear level display</p> <p>13. Workload Performance Advisor - Provides server tuning recommendations to improve server performance</p>		
13	Cloud Enabled Monitoring and Analytics	<p>1. Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <ul style="list-style-type: none"> a. Providing Firmware upgrade and patch upgrade 		

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		<p>recommendations proactively.</p> <p>b. Providing power and support entitlement status.</p> <p>c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.</p> <p>d. Automatic creation of support cases</p> <p>e. Detection of the Service Pack for Server and notifications for any hotfixes that may be available for the particular Configuration.</p> <p>f. Customer advisories based on their relevance to server configuration.</p> <p>g. Should have continuous, proactive health monitoring and recording of required system parameters as well as diagnostic telemetry data on a 24x7 basis.</p> <p>h. Should have monitoring & analytics feature for the offered server/chassis along with its sub-components to predict, prevent, and auto-resolve problems and by providing automating case creation and log file submission for the problems that can't be auto resolved.</p>		
14	Firmware security	<p>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</p> <p>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</p>		
15	Provisioning	<p>1. Should support tool to provision server using RESTful API to discover and deploy servers at scale</p> <p>2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell</p>		
16	Firmware security	<p>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</p> <p>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</p>		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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Server(SDR, Domain. LBS and GPRS)

Eligibility Criteria for Server(SDR, Domain. LBS and GPRS) OEM:

SL	Eligibility Criteria	Compliance with Document
1	The OEM should be an established Company registered under the – Indian Companies Act, 1956/2013, or partnership firm register under LLP Act, 2008 since last 10 years as on 31st March 2022.	
2	The OEM's average annual turnover from (i) IT System Integration / Software engineering & customization / Sale of IT system like Networking systems, Servers, Cloud Computing System, Cyber Security systems, Storage Systems, Tape Library, Backup solution, SAN and other Data Center ICT Infrastructure components AND (ii) IT Services (Consulting / Facility Management Services / IT Support etc.) should be average (INR) 1500 crores in last three financial years.	
3	The net worth of the Bidder should be Positive for last three years, as on 31st March 2022 and should be profitable for each of the last three financial years.	
4	The OEM must have following Certificates a. a. ISO 9001:2015 b. ISO/IEC 20000 : 2018 c. ISO/IEC 27001:2015 d. CMM Level-5.	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted Server(SDR, Domain. LBS and GPRS)

Qty.	
Make	
Model	
Part No.	

Server(SDR, Domain. LBS and GPRS) Specification

Specifications

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Chassis	1U Rack Mountable		
2	CPU	Two numbers of Intel Xeon S-4309Y, 8-core, 2.8 GHz processors		
3	Memory	32 DIMM slots. 64 GB DIMMS scalable upto 2.0TB using DDR4 operating at 3200 MT/s		
4	Hard Disk Drive	4 Nos 2.4TB SAS HDD in RAID-5		
5	Controller	Server should support two M.2 drives OS Boot Device with Hardware RAID 1 In addition, Server should support one of the below controllers, must support Mixed Mode which combines RAID and HBA mode operation simultaneously : PCIe 4.0 based x16 RAID controller		

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			<p>with 8GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 32 SAS/SATA/NVME lanes supporting up to 32 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller, supporting RAID 0, 1, 10 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring (onboard or on a PCI Express slot), Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or on a PCI Express slot) Storage controller should support Secure encryption/data at rest Encryption</p>		
6		Networking features	Server should support below		

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			<p>networking cards:</p> <ol style="list-style-type: none"> 1. 1Gb 4-port network adaptors 2. 10Gb 2-port Ethernet adaptor 3. 10Gb 4-port Ethernet Adapter 4. 10GBaseT 2-port Ethernet adaptor 5. 10/25Gb 2-port SFP28 Ethernet adaptor 6. 10/25Gb 4-port SFP28 Ethernet adaptor 7. 100Gb QSFP28 Ethernet 8. 100Gb 2-port QSFP56 Ethernet 9. 200Gb QSFP56 Ethernet 9. Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card <p>Infiniband Options: 100Gb or 200Gb Single or Dual port Adapter</p>		
7		Interfaces	<p>Serial - 1 (Optional) USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p>		
8		Bus Slots	<p>Serial - 1 (Optional) USB 3.0 support With Up to 5 total: 1 front, 2 internal, 2 rear, 2 internal</p>		
9		Power Supply	Should supply hot plug redundant low halogen power supplies with minimum 94% efficiency		
10		Industry Standard Compliances	<p>ACPI 6.3 Compliant PCIe 4.0 Compliant WOL Support Microsoft® Logo certifications PXE Support USB 3.0 Compliant USB 2.0 Compliant (only on optional Universal Media Bay) SMBIOS 3.2 Redfish API IPMI 2.0 Secure Digital 4.0 TPM 1.2 and 2.0 support Advanced Encryption Standard (AES) Triple Data Encryption Standard (3DES) SNMP v3 TLS 1.2 DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP) Active Directory v1.0 ASHRAE A3/A4 UEFI (Unified Extensible Firmware Interface Forum) 2.6</p>		

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11		System Securities	<p>UEFI Secure Boot and Secure Start support</p> <p>Immutable Silicon Root of Trust</p> <p>FIPS 140-2 validation</p> <p>Common Criteria certification</p> <p>Configurable for PCI DSS compliance</p> <p>Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser</p> <p>Support for Commercial National Security Algorithms (CNSA)</p> <p>iLO Security Modes</p> <p>Granular control over iLO interfaces</p> <p>Smart card (PIV/CAC) and Kerberos based 2-factor Authentication</p> <p>Tamper-free updates - components digitally signed and verified</p> <p>Secure Recovery - recover critical firmware to known good state on detection of compromised FW</p> <p>Ability to rollback firmware</p> <p>Secure erase of NAND</p> <p>TPM (Trusted Platform Module)</p> <p>Bezel Locking Kit</p> <p>Chassis Intrusion detection option</p>		
12		Embedded Remote Management and firmware security	<ol style="list-style-type: none"> 1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication 2. Server should have dedicated 1Gbps remote management port 3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware 3. Server should support agentless management using the out-of-band remote management port 4. 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 5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available 6. Remote console sharing upto 6 users simultaneously during pre-OS and OS 		

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			<p>runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.</p> <p>7. Should support managing multiple servers as one via</p> <ul style="list-style-type: none"> Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media and Encrypted Virtual Media Group License Activation <p>8. Should support RESTful API integration</p> <p>9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p> <p>10. Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features.</p> <p>11. One-button Secure Erase designed to decommission/repurpose servers</p> <p>12. NVMe wear level display</p> <p>13. Workload Performance Advisor - Provides server tuning recommendations to improve server performance</p>		
13		Firmware security	<p>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</p> <p>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</p>		
14		Cloud Enabled Monitoring and Analytics	<p>1. Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be</p>		

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			<p>included in the offer.</p> <p>2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <p>a. Providing Firmware upgrade and patch upgrade recommendations proactively.</p> <p>b. Providing power and support entitlement status.</p> <p>c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.</p> <p>d. Automatic creation of support cases</p> <p>e. Detection of the Service Pack for Server and notifications for any hotfixes that may be available for the particular Configuration.</p> <p>f. Customer advisories based on their relevance to server configuration.</p> <p>g. Should have continuous, proactive health monitoring and recording of required system parameters as well as diagnostic telemetry data on a 24x7 basis.</p> <p>h. Should have monitoring & analytics feature for the offered server/chassis along with its sub-components to predict, prevent, and auto-resolve problems and by providing automating case creation and log file submission for the problems that can't be autoresolved.</p>		
15		Provisioning	<p>1. Should support tool to provision server using RESTful API to discover and deploy servers at scale</p> <p>2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell</p>		
16		Secure encryption	<p>System should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.</p>		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

Central Database and Online Central Database Backup Server

Eligibility Criteria for Central Database and Online Central Database Backup Server OEM:

SL	Eligibility Criteria	Compliance with Document
1	The OEM should be an established Company registered under the – Indian Companies Act, 1956/2013, or partnership firm register under LLP Act, 2008 since last 10 years as on 31st March 2022.	
2	The OEM's average annual turnover from (i) IT System Integration / Software engineering & customization / Sale of IT system like Networking systems, Servers, Cloud Computing System, Cyber Security systems, Storage Systems, Tape Library, Backup solution, SAN and other Data Center ICT Infrastructure components AND (ii) IT Services (Consulting / Facility Management Services / IT Support etc.) should be average (INR) 1500 crores in last three financial years.	
3	The net worth of the Bidder should be Positive for last three years, as on 31st March 2022 and should be profitable for each of the last three financial years.	
4	The OEM must have following Certificates a. a. ISO 9001:2015 b. ISO/IEC 20000 : 2018 c. ISO/IEC 27001:2015 d. CMM Level-5.	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted Central Database and Online Central Database Backup Server

Qty.	
Make	
Model	
Part No.	

Central Database and Online Central Database Backup Server - Specification

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Chassis	2U Rack Mountable		
2	CPU	Two numbers of Intel Xeon S-4314, 2.4GHz, 16-core processors		
3	Memory	32 DIMM slots. 128 GB DIMMS scalable upto 2.0TB using DDR4 operating at 3200 MT/s		
4	Hard Disk Drive	4 Nos 2.4TB SAS HDD in RAID-5		
5	Controller	Server should support one of the below controllers, must support Mixed Mode which combines RAID and HBA mode operation simultaneously : PCIe 4.0 based x16 RAID controller with 8GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5,		

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		<p>6, 50, 60 with 32 SAS/SATA/NVME lanes supporting up to 32 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 1 TP, 10, 10 TP, 5, 6, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support 6G SATA, 6G/12G/24G SAS, Gen 3/Gen4 NVMe. Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 4.0 based x8 RAID controller, supporting RAID 0, 1, 10 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe). Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring (onboard or on a PCI Express slot), Storage controller should support Secure encryption/data at rest Encryption</p> <p>or</p> <p>PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or on a PCI Express slot) Storage controller should support Secure encryption/data at rest Encryption</p>		
6	Networking features	<p>Server should support below networking cards:</p> <p>1. 1Gb 4-port network adaptors</p>		

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		<p>2. 10Gb 2-port Ethernet adaptor 3. 10Gb 4-port Ethernet Adapter 4. 10GBaseT 2-port Ethernet adaptor 5. 10/25Gb 2-port SFP28 Ethernet adaptor 6. 10/25Gb 4-port SFP28 Ethernet adaptor 7. 100Gb QSFP28 Ethernet 8. 100Gb 2-port QSFP56 Ethernet 9. 200Gb QSFP56 Ethernet 9. Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card</p> <p>Infiniband Options: 100Gb or 200Gb Single or Dual port Adapter</p>		
7	Interfaces	<p>Serial - 1 (Optional) USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p>		
8	Bus Slots	<p>Server should support upto eight PCI-Express 4.0 slots, atleast two x16 PCIe slots</p>		
9	Power Supply	<p>Should supply hot plug redundant low halogen power supplies with minimum 94% efficiency</p>		
10	Industry Standard Compliances	<p>ACPI 6.3 Compliant PCIe 4.0 Compliant WOL Support Microsoft® Logo certifications PXE Support USB 3.0 Compliant Energy Star SMBIOS 3.2 Redfish API IPMI 2.0 Secure Digital 4.0 TPM 1.20 and 2.0 Support Advanced Encryption Standard (AES) Triple Data Encrytion Standard (3DES) SNMP v3 TLS 1.2 DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP) Active Directory v1.0 ASHRAE A3/A4 UEFI (Unified Extensible Firmware Interface Forum) 2.6</p>		

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11	System Securities	<p>UEFI Secure Boot and Secure Start support</p> <p>Tamper-free updates – components digitally signed and verified</p> <p>Immutable Silicon Root of Trust</p> <p>Ability to rollback firmware</p> <p>FIPS 140-2 validation</p> <p>Secure erase of NAND/User data</p> <p>Common Criteria certification</p> <p>TPM (Trusted Platform Module) 1.2 option</p> <p>Configurable for PCI DSS compliance</p> <p>TPM (Trusted Platform Module) 2.0 option</p> <p>Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser</p> <p>Bezel Locking Kit option</p> <p>Support for Commercial National Security Algorithms (CNSA)</p> <p>Chassis Intrusion detection option</p> <p>Secure Recovery – recover critical firmware to known good state on detection of compromised firmware</p>		
12	Embedded Remote Management and firmware security	<ol style="list-style-type: none"> 1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication 2. Server should have dedicated 1Gbps remote management port 3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware 3. Server should support agentless management using the out-of-band remote management port 4. 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 5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available 6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - 		

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		<p>Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.</p> <p>7. Should support managing multiple servers as one via Group Power Control Group Power Capping Group Firmware Update Group Configuration Group Virtual Media and Encrypted Virtual Media Group License Activation</p> <p>8. Should support RESTful API integration</p> <p>9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p> <p>10. Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features.</p> <p>11. One-button Secure Erase designed to decommission/repurpose servers</p> <p>12. NVMe wear level display</p> <p>13. Workload Performance Advisor - Provides server tuning recommendations to improve server performance</p>		
13	Cloud Enabled Monitoring and Analytics	<p>1. Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <p>a. Providing Firmware upgrade and patch upgrade recommendations proactively.</p> <p>b. Providing power and support entitlement status.</p> <p>c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the</p>		

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		<p>issues / problems.</p> <p>d. Automatic creation of support cases</p> <p>e. Detection of the Service Pack for Server and notifications for any hotfixes that may be available for the particular Configuration.</p> <p>f. Customer advisories based on their relevance to server configuration.</p> <p>g. Should have continuous, proactive health monitoring and recording of required system parameters as well as diagnostic telemetry data on a 24x7 basis.</p> <p>h. Should have monitoring & analytics feature for the offered server/chassis along with its sub-components to predict, prevent, and auto-resolve problems and by providing automating case creation and log file submission for the problems that can't be auto resolved.</p>		
14	Firmware security	<p>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</p> <p>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</p>		
15	Provisioning	<p>1. Should support tool to provision server using RESTful API to discover and deploy servers at scale</p> <p>2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell</p>		
16	Secure encryption	<p>System should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.</p>		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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SAN Storage

Eligibility Criteria for SAN Storage OEM:

SL	Eligibility Criteria	Compliance with Document
1	The OEM should be an established Company registered under the – Indian Companies Act, 1956/2013, or partnership firm register under LLP Act, 2008 since last 10 years as on 31st March 2022.	
2	The OEM's average annual turnover from (i) IT System Integration / Software engineering & customization / Sale of IT system like Networking systems, Servers, Cloud Computing System, Cyber Security systems, Storage Systems, Tape Library, Backup solution, SAN and other Data Center ICT Infrastructure components AND (ii) IT Services (Consulting / Facility Management Services / IT Support etc.) should be average (INR) 1500 crores in last three financial years.	
3	The net worth of the Bidder should be Positive for last three years, as on 31st March 2022 and should be profitable for each of the last three financial years.	
4	The OEM must have following Certificates a. a. ISO 9001:2015 b. ISO/IEC 20000 : 2018 c. ISO/IEC 27001:2015 d. CMM Level-5.	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted SAN Storage

Qty.	
Make	
Model	
Part No.	

SAN Storage - Specification

Sl.	Feature	Specification	Compliance (Yes/No)	Ref Page
1	Operating System & Clustering Support	1. The storage array should support industry-leading Operating System platforms including: Windows 2016 / 2019, VMware and Linux. 2. Offered Storage Shall support all above operating systems in Clustering.		
2	Capacity & Scalability	1. The Storage Array shall be offered with 120 TB Usable Capacity using SAS Drives 2. For effective power saving, Storage subsystem shall be supplied with 2.5" Small form factor SFF drives however		

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		<p>storage subsystem shall also support LFF drives with the addition of required disk enclosures.</p> <p>3. Storage shall be scalable to minimum of 240 number of SAS SFF drives.</p>		
3	Front-end Ports & Back-end Ports	<p>1. Offered Storage system shall be supplied with 4 * 10 Gbps iSCSI ports per controller</p> <p>2. Offered storage system shall support 12G SAS Back-end connectivity.</p>		
4	Architecture	The storage array should support dual, redundant, hot-pluggable, active-active array controllers for high performance and reliability		
5	No Single point of Failure	Offered Storage Array shall be configurable in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc.		
6	Disk Drive Support	<p>1. Storage system shall support Enterprise SAS spinning drives, SSD and near line SAS / 7.2K RPM drives.</p> <p>2. Offered storage array shall also have support for FIPS 140-2 validating self-encrypted drives.</p>		
7	Cache	<p>1. Offered Storage Array shall be given with Minimum of 12GB cache per controller in a single unit.</p> <p>2. Cache shall be backed up in case of power failure for indefinite time either using batteries or capacitors or any other equivalent technology.</p> <p>3. Offered Storage shall also have optional support for Flash cache using SSD / Flash drives. Offered storage shall support at-least 8TB Flash Cache.</p> <p>4. Offered Flash cache shall be tuned for random read operations and shall remain activated even at less than 70% of random average read workload.</p>		
8	Raid Support	<p>1. Offered Storage Subsystem shall support Raid 1 , 10, 5 and Raid 6</p> <p>2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.</p> <p>3. Thin provisioning shall be supported with offered Flash Cache.</p>		

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		4. Raid processing shall be offloaded to a dedicated ASIC instead of CPU. In case vendor is not supporting it then vendor shall ensure that additional 12GB cache per controller is configured to offset the raid processing workload.		
9	Replication	<p>1. Offered storage subsystem shall support storage based replication to DR location. License for maximum supported capacity of the array shall be offered.</p> <p>2. Offered storage subsystem shall support replication to multiple storage array of the same family in fan-out mode. At least 1:4 mode shall be supported.</p>		
10	Data Tiering	Offered Storage shall also be configured for Sub-Lun Data tiering in real time fashion across different type of drives within a given pool like SSD, SAS, NL-SAS etc. License shall be configured for maximum supported capacity of the array.		
11	Global and dedicated Hot Spare	<p>1. Offered Storage Array shall support Global hot Spare for offered Disk drives.</p> <p>2. At least 2 Global hot spare drive shall be configured for every 30 drives.</p> <p>3. Offered storage array shall have the support for distributed hot spare</p>		
12	Point in time and clone copy	<p>1. Offered Storage array shall be configured with array based Snapshot and clone functionality and shall be configured for minimum of 512 snapshot licenses.</p> <p>2. Offered Storage array shall support at-least 512 point in time copies (Snapshots) and 128 volume / Clone copies</p>		
13	Virtualization and Thin provisioning	<p>1. Offered storage shall be offered and configured with virtualization capability so that a given volume can be striped across all spindles of given drive type within a given disk pool. Disk pool shall support all listed raid sets of Raid 1, Raid 10, Raid 5 and Raid 6.</p> <p>2. Offered Storage shall be offered and configured with Thin Provisioning capability.</p>		
14	Logical Volume & Performance	1. Storage Subsystem shall support minimum of 512 Logical Units. Storage Array shall also support creation of		

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		more than 120TB volume at controller level. 2. Offered Storage shall have inbuilt performance management software. Configuration Dashboard shall show overall IOPS and MB/sec performance.		
15	Load Balancing & Muti-path	Multi-path and load balancing software shall be provided, if vendor does not support MPIO functionality of Operating system.		
16	Performance	Offered storage shall have listed benchmark for performance of more than 200,000 in Raid 5 using appropriate drives at 8k block size. Vendor shall provide documentary proof for it.		
17	Array Integration	Offered storage array shall have plug-in for VMware VCenter, Microsoft System center as well as vStorage APIs (VAAI) for array integration.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

15KVA UPS (Online)

Eligibility Criteria for 15KVA online UPS OEM:

SL	Eligibility Criteria	Compliance with Document
1	The UPS OEM Should be an Indian Manufacturer with direct presence in India for a minimum period of 10 years.	
2	The UPS OEM can submit bid either directly or through authorized partner's.	
3	The UPS OEM shall have ISO 9001 certified manufacturing facility in India.	
4	The OEM shall have NABAL approved lab certification	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted 15 KVA Online UPS

Qty.	
Make	
Model	
Part No.	

15 KVA Online UPS Specification

Sl.	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Capacity	15KVA		
2	Input Voltage	340 to 460V AC Three Phase		
3	Input Frequency Range	45Hz to 55Hz		
4	Output Voltage	220V - 240V		
5	Output Frequency	50Hz +/- 0.1%		
6	Power Factor	0.8		
7	THD	Less Than 3%		
8	Technology	Micro Controller based Hi Freq. PWM		
9	Crest factor	4:1		
10	Transient Recovery	Within 3 cycle		
11	Wave form	Pure sine wave		
12	Transfer time	0 Ms		
13	Inverter Type	High frequency IGBT based PWM Technology		
14	Battery Charger	Constant voltage constant current (CVCC) type with Trickle, Float & Boost Mode		
15	Operating Temperature	0 to 50 deg. C		
16	Humidity	90-95% RH Non Condensing		
17	Output Isolation	Galvanic Isolation thru In-built Isolation transformer		

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18	Protection	Input MCB, Input Over/Under Voltage, Battery MCB/Fuse, Battery Short Circuit, Battery Under Voltage, Battery Charging current Limit, Output Overload, Output Short circuit, Output over Voltage.		
19	LCD Display	Output Voltage, Input Voltage, Charging Current, output frequency, UPS on Mains or UPS on Battery		
20	Indications/Alarms	Low Battery trip, Output Overload trip		
21	Alarm	Battery Low, Output Overload		
22	Bypass	Maintenance bypass manual. Static Bypass(Optional)		
23	Noise Level	Less than 45db		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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3 KVA Online UPS

SL	Eligibility Criteria	Compliance with Document
1	The UPS OEM Should be an Indian Manufacturer with direct presence in India for a minimum period of 10 years.	
2	The UPS OEM can submit bid either directly or through authorized partner's.	
3	The UPS OEM shall have ISO 9001 certified manufacturing facility in India.	
4	The OEM shall have NABAL approved lab certification	
5	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted 3 KVA Online UPS

Qty.	
Make	
Model	
Part No.	

3 KVA Online UPS Specifications

Sl.	Feature	Specification	Compliance (Yes/No)	Ref. Page
1	Capacity	3.0KVA		
2	Input Voltage	170 to 270V AC		
3	Input Frequency Range	45Hz to 55Hz		
4	Output Voltage	220V		
5	Output Frequency	50Hz +/- 0.1%		
6	Power Factor	0.8		
7	THD	Less Than 3%		
8	Technology	Micro Controller based Hi Freq. PWM		
9	Crest factor	4:1		
10	Transient Recovery	Within 3 cycle		
11	Wave form	Pure sine wave		
12	Transfer time	0 Ms		
13	Inverter Type	High frequency IGBT based PWM Technology		
14	Battery Charger	CVCC type with Trickle, Float & Boost Mode		
15	Operating Temperature	0 to 50 deg. C		
16	Humidity	90-95% RH Non Condensing		
17	Output Isolation	Galvanic Isolation thru In-built Isolation transformer		
18	Protection	Input MCB, Input Over / Under Voltage, Battery MCB/ FUSE, Battery Short Circuit, Battery under voltage, Battery charging current limit, Output Overload, Output short circuit, Output over		

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		Voltage		
19	LCD Display	Output Voltage, Input Voltage, Charging Current, Output Frequency UPS on Mains, UPS on Battery Battery Charging, Battery Low, Load %, Overload		
20	Indications/Alarms	Low Battery trip, Output OverLoad trip		
21	Alarm	Battery Low, Output Overload		
22	Bypass	Maintenance bypass manual. Static Bypass (Optional)		
23	Noise Level	Less than 45db		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

UTM/Firewall :

Eligibility Criteria for UTM/Firewall OEM

SL	Eligibility Criteria	Compliance with Document
1	Proposed OEM should have Sales & Service support in India for 5 years	
2	Proposed OEM should have TAC support in India for last 5 years	
3	Proposed OEM should have presence in India for the past 10 (ten) years	
4	Proposed OEM should be in the business of Manufacturing Cyber Security Solution for Data Centre for last 10 years	
5	Proposed OEM should have experience of Supply & Installation of Firewall in last 10 years as on date of bid submission	
6	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of quoted UTM/Firewall	
Qty.	
Make	
Model	
Part No.	

UTM/Firewall Specifications

SL	Specification	Compliance (Yes/No)	Ref. page
1	SITC of Network Security Firewall having minimum technical specification of Hardware & Software: Support for OSPFv2, BGPv4 and 4++, RIP, PIM (SM, DM, SSM), IGMP.		
2	Should not have ASIC based proprietary architecture and must be completely based on multi-core latest multi-processor.		
3	IPS Throughput: 3500 Mbps or higher, NGFW Throughput: 3000 Mbps or higher, Threat Protection Throughput: 1500 Mbps or higher.		
4	Operating Temperature Range (Degree C) 0 to 40 c.		
5	Operating Humidity (RH) C) 10-90%.		
6	License: 03(Three] Years Advanced Bundle (24x7 Care plus Application Control, with Security Gateway Feature of Firewall, Identity Awareness, IPsec VPN, Advanced Networking, IPS, Application Control, Content Awareness, URL Filtering, Antivirus, Anti-Bot, real-time zero-day Threat Emulation, web based as well as mobile application based management dashboard. Reports from 3rd party independent industry analysts like Gartner and NSS Labs to substantiate the OEM industry leadership would be desired.		

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7	Power Supplies: Max 75W.		
8	Compliance and Certifications: UL/c-UL 62368-1 , IEC 62368-1 CB / EMC, EMI EN55024, EN55032 Class B, VCCI, AS, NZS CISPR 32, IC ICES 03, FCC: Part 15 Class B / RoHS, REACH, WEEE.		
9	1x USB Port, 1x Console Port, 2 x 1000BaseF.		
10	SFP Ports (to be supported only, not to be supplied).		
11	16 X GE RJ45 LAN Port.		
12	Internal Storage: Micro SD slot with 32 GB and 64 GB option.		
13	VPN: 500 remote IPSEC VPN or SSL VPN user license; Heat Dissipation: Max 250 BTU/Hr.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of Company: _____

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Eligibility Criteria for 22U & 42U Floor Standing Rack OEM

SL.	Eligibility Criteria	Compliance with Document
1	The Rack OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development of networking products. Documents need to be submitted along with the tender.	
2	The Rack OEM should be in the business in India for last 10 years as on the date of release of the RFP. Document need to be submitted.	
3	The Rack OEM should have Average Annual Financial Turnover not less than 250 Crores in India for each of the last five financial years. Document need to be submitted.	
4	The Rack OEM should have their own sales office & service / own RMA center in West Bengal. OEM declaration / document need to be submitted.	
5	Rack OEM should have one single order of rack for min. 500 nos. from any Govt Dept / PSU / Govt. undertaking within last three financial year. Document need to be submitted.	
6	The OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA.	

Minimum Specification of 22U Floor Standing Rack

Qty.	
Make	
Model	
Part No.	

22 U Floor Standing Rack specification

SL	Specification	Compliance (Yes/No)	Ref. Page
1	22U Floor Standing Network Rack -600mm Width X 800mm Depth.		
2	Castors Set of 4, Adjustable Levelers set of 4		
3	Front Glass Door, Back Metal Door Vented, Side Panels Vented		
4	Mounting Hardware-(Pack of 20)		
5	FHU with 2 FAN 180CFM		
6	2Nos. Horizontal Power Distribution Unit with 6 x 5/15A sockets Round Pin, 230 Volts AC, 32 Amp with Plug		
7	Horizontal Cable Manager		

42U FLOOR STANDING INDOOR RACK

Minimum Specification of 42U Floor Standing Rack

Qty.	
Make	
Model	
Part No.	

42U Floor Standing Indoor Rack specification

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

42U FLOOR STANDING INDOOR RACK WITH SHELF

Minimum Specification of 42U Floor Standing Rack with shelf	
Qty.	
Make	
Model	
Part No.	

42U Floor Standing Rack specification

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of Company: _____

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Eligibility Criteria for 24-Port Layer-3 Switch OEM

SL.	Eligibility Criteria	Compliance with Document
1	The Switch OEM for each product or Technology quoted should be in the business of that product or solution or Technology for last 10 years as on the date of publication of tender.	
2	The Switch OEM should have a local own service centre within the state of installation and should have technical assistance centre.	
3	The Switch OEM should have a registered office in India and should directly present for last 10 years in India, from date of publication of tender.	
4	The Switch OEM should give a declaration that products or technology quoted are neither end of sale nor end of life as on the date of installation and commissioning and are not end of support till the successful completion of the project.	
5	The Switch OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
6	The Switch OEM should have Average Annual Financial Turnover not less than 300 Crores for their networking equipment business in India only for the last each five financial years	
7	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Minimum Specification of 24 Port Layer-3 Switch

Qty.	
Make	
Model	
Part No.	

24 Port Layer-3 Switch Specification

SL	Specification	Compliance (Yes/No)	Ref. Page
1	Layer-3 Fully Managed Stackable Switch having 24x 10/100/1000BaseT ports, 2x 10GBASE-T ports & 4x 10G SFP+ slots		
2	Switching Capacity should be atleast 168Gbps		
3	Packet Forwarding Rate should be atleast 125Mpps for 64-byte packet size		
4	The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day one		
5	The switch should have smart fans with sensor IC that provides different fan speed based on different temperature.		
6	The switch should have support for physical stacking with atleast 8 units per stack.		
7	The switch should have support for virtual stacking with atleast 25 units per stack.		
8	The Switch should have support for redundant power supply.		
9	The switch should have following L2 features from day one		
10	MAC Address Table size: Atleast 16000		
11	Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention		
12	Jumbo Frame Support (Atleast 9K bytes)		

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13	4. IGMP v1 v2 v3 snooping with atleast 1024 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave		
14	5. MLD v1 v2 snooping with atleast 1024 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave		
15	6. IEEE802.1D STP, 802.1w RSTP, 802.1s MSTP with atleast 16 MSTP instances, Root guard or equivalent feature. G.8032 ERPS features.		
16	7. The switch should be able to avoid the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN		
17	8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with atleast 8 ports per groups & 32 groups per switch.		
18	9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode, Flow based mirroring.		
19	10. IEEE 802.1Q VLAN, atleast 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, Voice-VLAN, asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN.		
20	The switch should have 802.1p support with 8 queues per port. Support strict, WRR queue handling technique. trTCM, srTCM.		
21	The switch should support CoS based on VLAN, IP address, MAC address, DSCP, TCP/UDP port number, 802.1p priority queues, user defined packet content, IPv6 address		
22	The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps. Flow-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps		
23	The switch should have support for standard & extended Access control lists based on VLAN ID, 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, user defined packet content, IPv6 address. Time based ACL.		
24	The switch should have the following security features from day one: SSHv2 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, authentication database failover, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port. Web based Access Control, MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+. Atleast four level of user account control.		
25	The switch should have feature to protect the CPU from protocol control packet attack.		
26	The switch should have feature of atleast 512 static routes, default root, RIPv1v2, RIPng, OSPF, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbor Discovery, VRRP, policy based route from first day		
27	The Switch should have following Management features from day one: Web-based GUI, CLI, Telnet Server, TFTP Client, SFTP server, SNMPv1v2cv3, SNMP trap, BOOTP/DHCP Client, SNTP, NTP, debug command, RMONv1, RMONv2, Syslog, ICMPv6, DHCP server, DHCP Relay Option 60,61,61,125, LLDP, LLDP-MED, Multiple Image support, sflow, trusted host, Physical console port for Out of band management.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

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Antivirus(Managed)

Eligibility Criteria for Antivirus OEM:

SL	OEM Eligibility Criteria	Compliance with Document
1	OEM should have presence in India for more than 10 years	
2	OEM should be in Leader in Gartner Magic Quadrant for the last 5 years in Endpoint Security	
3	OEM should have its own legal Office in West Bengal.	
4	OEM Should be ISO/IEC 20000-1:2018	
5	OEM should have the Toll free number and online support for Antivirus solutions.	
6	The Switch OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

Antivirus Specification

Minimum Specification of Quoted Antivirus	
Qty.	
Make	
Model	
Part No.	

Antivirus Specification

SL	Specification	Compliance (Yes/No)	Ref. page
1	Must offer comprehensive on-premises client/server based endpoint security with Integration capability for future upgradation with additional license which will protect enterprise networks from Malware such as virus,worm, spyware, trojan , rootkits, BOTS,Comand &Control attacks, grayware, adware, malware and other computer bourne threats, mixed threat attacks, any emarging cyber attacks,zero day attack protection.		
2	Endpoint solution (for Desktop and VDI) should have capability of all module like Anti-Virus, HIPS, Firewall, Application control, Device control		
3	Solution should have pre-execution and post-execution by Machine Learning(ML) process		
4	Solution Should have option to On-Premise sandboxing integration feature in unified single Agent for future.		
5	Solution must clean computers of file-based, file less (a process which execute automatically) and network viruses plus virus and worm variants (Trojans, registry entries, virus files)—through a fully-automated process.		
6	Must be able to reduce the risk of virus,file based malware spyware, grayware, entering the network by blocking files with real-time compressed executable files & other ways.		
7	To address the threats and nuisances posed by Trojans, the solution should be able to do the following but not limited to : Terminating all known virus processes and threads in memory, protecting the registry, Deleting any drop files created by viruses, Removing any Microsoft Windows services created by viruses ,Restoring all files damaged by viruses including Cleanup for Spyware, Adware etc.		

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8	Must provide Outbreak Prevention to limit/deny access to specific shared folders, block ports, and deny write access to specified files and folders on selected clients in case there is an outbreak		
9	Must have behavior monitoring to restrict system behavior, keeping security related processes always up and running along with Enabling certification that a software is safe to reduce the likelihood of false positive detections or equivalent. The module should identify the processes of ransomware and block the same.		
10	Must provide Real-time lock down of client configuration allow or prevent users from changing settings or unloading/uninstalling the software		
11	Users with the scheduled scan privileges can postpone, skip, and stop Scheduled Scan.		
12	The solution should have CPU usage performance control during scanning		
13	Must provide the flexibility to create firewall rules .		
14	The solution should have the machine learning feature in any condition (connected with Internet or not connected with internet.		
15	Should have a manual outbreak prevention feature that allows administrators to configure port blocking, block shared folder, and deny writes to files and folders manually		
16	Should have the capability to assign a client the privilege to act as a update/master relay agent for rest of the agents in the network		
17	Should be able to detect files packed using real-time compression algorithms as executable files & Object Linking and Embedding (OLE) File.		
18	Must be able to protect the endpoints from Web threats by blocking access to and from malicious sites based on the URL's reputation ratings. It should have override feature too.		
19	Must be able to check the reputation of the files hosted in the internet, as webmail attachment and residing in local computer.		
20	The proposed solution should have the duplicate system file monitoring mechanism along with blocking capacity of Shell modification attack, host file modification ,DLL injection, System file & process modification etc.		
21	Reduces network bandwidth consumed during pattern updates. The bulk of pattern definition updates only need to be delivered to the cloud or some kind of repository and not to many endpoints		
22	In case of bot infection, bot removal tools also to be facilitated to clean the infected machine		
23	The reporting module shall be able to automatically deliver custom reports via email to designated users when the report has been generated		
24	The End point AV should have the option of integration with on premise sandbox.		
25	Should have an option to manage EDR (End Point Detection and Response) features from the same central dashboard of endpoint protection		
26	Solutions should have Root cause analysis, Threat hunting, IOC (indicator of Compromise) sweeping and other EDR features in the same Endpoint agent.		

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____

WEBEL TECHNOLOGY LIMITED

SECTION – O

MANUFACTURER’S AUTHORIZATION FORM

Date:

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

Ref: Tender No.: WTL/IB/CMS/22-23/016 dated 28.07.2022

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

- 1. _____
- 2. _____

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

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

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

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

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

We also confirm that adequate spare product will be kept available with the SI for 3 years.

Name _____ In the capacity of _____

Signed _____

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

Dated on _____ day of _____ 2022

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

WEBEL TECHNOLOGY LIMITED

SECTION - P

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: Upgradation of Hardware and Software of VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal with 3 year Product and Onsite Installation warranty.

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/IB/CMS/22-23/016 dated 28.07.2022. Upgradation of Hardware and Software of VPN Based Call Monitoring System installed at Intelligence Branch-WBP, Kolkata, West Bengal and client nodes installed at different locations in West Bengal with 3 year Product and Onsite Installation warranty published by Webel Technology Limited in e-Tender website.

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

Thanking you, we remain

Yours faithfully

.....
Signature

.....
Name in full

.....
Designation

.....
Company Stamp

Dated, thisday of2022

