

WEBEL TECHNOLOGY LIMITED

CORRIGENDUM – III

Tender No. WTL/SDC/HW/20-21/001 dated 28.04.2020

Sl. No.	Section	Clause No.	Page No.	Present Entry	Replace With
1.	I	-	27	TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT	TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT Revised Section – I is enclosed

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SECTION - I

TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT

(Tender No. WTL/SDC/HW/20-21/001)

Minimum Specifications for Blade Server Solution

Qty.	6 Nos.
Make	
Model	

Specifications of Blade Chasis:

Sr. No	Features	Minimum Specifications Required	Complied (Yes/No)	Reference document & remarks
		Solution design		
01	Solution	Solution to be proposed for 12 servers in maximum 20U aggregate rack height.		
02	Market position	OEM should have been one of the top three server vendors worldwide in any two of the previous 4 quarters		
		Blade chassis architecture (each)		
	Model:	<i>Please specify make & model</i>		
03	Form factor & technology	Max 10U rack mounted chassis to house minimum 8 or higher compute blades. The chassis should be of latest generation from the OEM that will not be declared as end-of-support within 6 years period from the date of FAT. Bidder to attach the signed / sealed declaration from authorized signatory from the OEM for the same		
04	Future readiness	Proposed chassis should have publicly declared support for multiple future generations of server processor microarchitectures.		
05	Availability	Chassis should have a highly reliable back-plane or no back-plane architecture providing connectivity of the shared resources (network switches, management networks etc.) to the compute nodes for a high-reliable design architecture. Architecture should have no-single-point-of-failure design		
06	IO Bays	Atleast two IO bays in redundant configuration supporting Ethernet, Fiber Channel & / or FCoE		
07	Switch Modules	Each chassis should be configured with atleast one pair of redundant fabric-modules and/or switches with redundant 25Gbps ports to connect to the compute blades within the chassis.		
		The fabric-modules and/or switches should have <500ns latency.		
		Each fabric/switch should have redundant 25Gbps downlink ports for all the compute blades configured in the chassis		
		Each fabric/switch should have minimum 4 x 32Gbps active external FC ports, and 2 nos. ports all with transceivers or DAC / breakout cables		
		Alternatively, 8 x 32Gbps active external FC ports may be provided in separate pair of SAN switches		

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Sr. No	Features	Minimum Specifications Required	Complied (Yes/No)	Reference document & remarks
08	Power Modules	Redundant power modules providing N+N redundancy & support for single-phase power		
09	KVM	Integrated or external redundant KVM solution		
10	Chassis Management Module	Redundant chassis Management Module providing IP based management of the blades and vital elements like FC / Ethernet / converged Switches. switch management, resource discovery and inventory management, alerts and monitoring, chassis & blade power management and diagnostics for elements including Chassis, I/O options and compute nodes.		
11	Chassis Management Network	Redundant management network connection in the chassis for complete management of all the active modules in the chassis		
12	System Panel	LEDs or LCDs on the chassis can be used to obtain the status of the chassis connection and health.		
13	Management Software	Management software for the maximum config with perpetual license. The management software should be from the same OEM.		
14	Operating Temperature	Chassis must have an operating temperature of at least 10 degrees centigrade to 35 degrees centigrade		
15	Warranty	5 Years Onsite Comprehensive Warranty		
16	OEM	OEM Support for 5 years with advance hardware replacement warranty for all proposed components, sub-components.		
17	OEM	OEM should have service facility available at Kolkata		

Specification of Blade Servers:

Sr. No	Features	Minimum Specifications Required	Complied (Yes/No)	Reference document & remarks
1	CPU	2 x Intel Xeon, 28-core, 2.7GHz latest generation processor		
2	Cache L3	Min 38MB		
3	Memory	1536GB DDR4, 2933MHz ECC memory		
4	SCSI Controllers	12Gbps SAS hardware RAID controller, Minimum 1GB cache or above, supporting RAID 0 and 1		
5	Disk Drives	Minimum 3 x 960GB or minimum 2 x 1.6TB mix-use SSD		
6	I/O adapters	Dual port 25Gbps Ethernet terminating into different pair of chassis switches. For converged network solution, the adapter should support FCoE protocol		
7	Ports	One Internal or external USB 3.0 Port.		
8	Operating System Support	Microsoft Windows Server 2012 and 2012 R2, Red Hat Enterprise Linux 7, SUSE Linux Enterprise Server 11 and 12, VMware vSphere 5.5 and 6.0		
9	Management	Integrated management with remote diagnostics (graphics, keyboard, mouse and virtual media)		

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10	Security features	Silicon-based hardware root of trust, automatic secure BIOS recovery, cryptographically signed firmware update, firmware drift detection & system lockdown against threats, protection against compromised firmware execution, automatic secure BIOS & OS recovery. These features should be detailed in a web published document. OEM declaration will not be accepted		
11	Failure Alerting Mechanism	The server should be able to alert impending failures on maximum number of components. (Processors, voltage regulators, memory, internal storage (SAS/SATA HDDs and SSDs), fans, power supplies & RAID controllers.		
12	Warranty	5 Years Onsite Comprehensive Warranty		
13	OEM	OEM Support for 5 years with advance hardware replacement warranty for all proposed components, sub-components.		
14	OEM	OEM should have service facility available at Kolkata		

Minimum Specifications of Rack Server Solutions

Qty.	6 Nos.
Make	
Model	

Specifications of Rack Servers:

Item	Description of Requirement	Complied (Yes/No)	Reference document & remarks
Chassis	2 U Rack Mountable		
CPU	Two numbers of latest generation AMD EPYC 7742 (2.2GHz/64-core/225W) Processor - System on Chip (SoC) design		
Memory	32DIMM slots. 32 Nos 64 GB DIMMS using DDR4 operating at 2933 MHz/ 3200 MHz		
Hard Bays & disk drive	2 Nos 960GB SATA SFF Hot-Plug SSD drives and scale able upto Up to 20 Nos SFF / LFF HDD/SSD		
Controller	PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/		
Networking features	Server should support below networking cards: 1. 1Gb 4-port network adaptors 2. 10Gb 2-port Ethernet adaptor 3. 10GBaseT 4-port Ethernet adaptor 4. 4x25Gb Ethernet adaptor 5. 10/25Gb 2-port Ethernet adaptor 6. 100Gb Ethernet InfiniBand Options: 40Gb dual port or 100Gb Single or Dual port Adapter		
Interfaces	Serial - 1 Micro SD slot - 1 USB 3.0 support With Up to 3 total: 1 front, 2 rear		

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Item	Description of Requirement	Complied (Yes/No)	Reference document & remarks
Bus Slots	Seven PCI-Express 3.0 slots, atleast two x16 PCIe slots		
Power Supply	Should supply hot plug redundant power supplies		
Fans	Redundant hot-plug system fans		
Industry Standard Compliance	ACPI 6.1 Compliant PCIe 3.0 Compliant PXE Support Energy Star ASHRAE A3/A4 UEFI 2.6 SMBIOS Redfish API SNMP v3 TLS 1.2 DMTF Systems Management Architecture		
Operating Systems and Virtualization Software Support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) VMware		
GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators		
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.		
Warranty	Server Warranty includes 5-Year Parts, 5-Year Labor, 5-Year Onsite support with next business day response.		
Provisioning	1. Should support tool to provision server using RESTful API to discover and deploy servers at scale 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		
Cloud Enabled Monitoring and Analytics	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. 2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following: a. Providing Firmware upgrade and patch upgrade recommendations proactively. b. Providing power and support entitlement status. c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.		

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Item	Description of Requirement	Complied (Yes/No)	Reference document & remarks
Monitoring, Analytics, and Performance	Should have continuous, proactive health monitoring and recording of required system parameters as well as diagnostic telemetry data on a 24x7 basis.		
	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.		
	Should help simplify the infrastructure management plan by predicting capacity, performance and bandwidth needs.		

Other requirements for compute solutions:

Sl. No.	Description	Description of Quoted Product (to be filled by bidder)	Cross Reference (OEM reference URL/Document & page no. wherever applicable)
1	TAC Support in India for last 10 years	<TAC Support Detail>	
2	Spare warehouse should be available in India	<Spare House Detail>	
3	Spare parts to be made available by OEM within two business days from the date of call log	OEM Undertaking - Yes/No	
4	Product should not be declared as End of sale within next 5 (Five) years and should not be end of support by next 10 years.	OEM Undertaking - Yes/No	
5	19" rack mountable with rail kit	<Product Part Code, if any>	
6	Unpriced, complete and correct BOQ to be submitted along with the bid in OEM letter head, without which Bid will be rejected. No clarification/correction will be sought post submission of bid.	Complete BoM with components, sub-component, Service, warranty, license/subscription in OEM letter head - Yes/No	

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

Authorized Signatory (Signature In full): _____

Name and title of Signatory: _____

Stamp of the Company: _____