

WEBEL TECHNOLOGY LIMITED

CORRIGENDUM – I

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

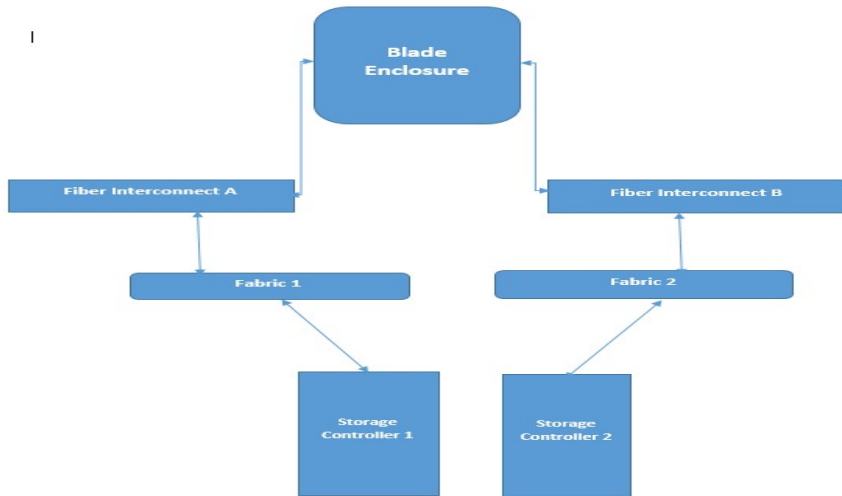
Sl. No.	Section	Clause No.	Page No.	Present Entry	Replace With
1.	D	14	11	TIME SCHEDULE FOR DELIVERY & INSTALLATION	TIME SCHEDULE FOR DELIVERY & INSTALLATION Revised Schedule is give below
2.	H	-	26	BILL OF MATERIAL	BILL OF MATERIAL Revised Section – H is enclosed
3.	A	Sl. No. 1.2	4	BILL OF MATERIAL	BILL OF MATERIAL Revised Section – H is enclosed
4.	I	-	27	TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT	TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT Revised Section – I is enclosed
5.	Additional Clauses			WTL reserves the right to cancel the tender and reject the bid documents at any point of time 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. WTL reserves the right to change the quantity of items at the time of ordering.	
6.	The Additional Information as mentioned below.				
7.	Date and time of Bid Submission has been extended up to 3rd June 2020 at 12.00 hrs.				
8.	Date and time of Bid Opening has been extended up to 5th June 2020 at 12.00 hrs.				
9.	Date and time of sending details of EMD & Tender Fee submission has been extended up to 4th June 2020 at 16.00 hrs.				
10.	Date and time of Bid Submission Start has been extended up to 28th May 2020 at 14.00 hrs.				

Details of Blade server connectivity with existing SAN/Network switches with make & model no.

Hardware Type	Make	Hardware Model	TOTAL NO OF PORTS IN FABRIC	TOTAL USED	TOTAL FREE
SAN switch	Cisco	Cisco MDS 9148S	48	19	29
SAN switch	Cisco	Cisco MDS 9148S	48	18	30
SAN switch	Cisco	Cisco MDS 9148S	48	19	29
SAN switch	Cisco	Cisco MDS 9148S	48	18	30

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Diagram:



DETAILS OF EXISTING RACK

Part Code	Make	Model	Specification
AR3150	Schneider Electric	AR3150	NetShelter SX 42U 750mm Wide x 1070mm
AR3350	Schneider Electric	AR3350	NetShelter SX 42U 750mm Wide x 1200mm

TIME SCHEDULE FOR DELIVERY & INSTALLATION

Activity	Time in days
Issue of Purchase Order	T
Furnishing of Bank Guarantee	T + 1 week
Delivery of items	T + 12 weeks
Implementation of Items	T + 14 weeks
FAT	T + 16 weeks

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SECTION – H

BILL OF MATERIAL

Sl. No.	Item Description	Qty	Unit
1	Compute Solution – Blade chassis as per specifications including Required number of cable connectors for connecting blade servers with existing SAN/ network switches and Additional accessories for implementation	1	No.
2	Compute Solution – Blade servers on Intel platform as per specifications	6	No.
3	Compute Solution – Rack servers on AMD platform as per specifications	6	No.
4	Expansion of existing cloud solution		
4(a)	Expansion of existing cloud with cloud infrastructure software comprising of OpenStack Platform and orchestration layer need to be offered. The offered solution should be with 24x7 support (L1-L3) from OEM and should include update, upgrade and patches from the OEM for 5 Years. The offered OpenStack Platform should have defined lifecycle for at least five years.	12	No.
4(b)	Unlimited Number of Red Hat Enterprise Linux Guest OS with 24x7 support (L1-L3) for 5 years from OEM need to be offered. This will run on newly added OpenStack Nodes.	12	No.
4(c)	Life Cycle Management Software need to be offered with Operating System for central management of Instances. This need to be offered for 5 years from OEM.	12	No.

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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 Chassis:

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:	Please specify make & model		
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 modues 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:

Rack Server	Rack Server with AMD Processor
FRONT STORAGE:	Chassis with up to 10x2.5" Drives
BACKPLANE:	SAS/SATA Backplane
Motherboard:	Compatible Motherboard, with 2 x 1Gb Onboard LOM (BCM5720)
Chassis Configuration:	Chassis with up to 10 x 2.5" Hot Plug Hard Drives (2CPU & XGMI)
Processor:	AMD EPYC 7742 2.25GHz, 64C/128T, 256M Cache (225W) DDR4-3200
Additional Processor:	AMD EPYC 7742 2.25GHz, 64C/128T, 256M Cache (225W) DDR4-3200
Processor Thermal Configuration:	Heatsink for 2 CPU configuration (CPU greater than or equal to 180W)
Memory DIMM Type and Speed:	3200MT/s RDIMMs
Memory Configuration Type:	Performance Optimized
Memory Capacity:	32 64GB RDIMM, 3200MT/s, Dual Rank
RAID Configuration:	C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed)
RAID/Internal Storage Controllers:	S150 for Software RAID
Hard Drives:	1 480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 876 TBW 1 960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW
Boot Optimized Storage Cards:	BOSS controller card + with 2 M.2 Sticks 240G (RAID 1), LP
PCIe Riser:	Riser Config 2, 1 x 16 LP PCIe slot (CPU1), 2 x 16 LP PCIe slot (CPU2)
OCP 3.0 Network Adapters:	Broadcom 57414 Dual Port 10/25GbE SFP28, OCP NIC 3.0
Fans:	Very High Performance Fan for 10 x 2.5" or 10 x 2.5 + 2 chassis
Power Supply:	Dual, Hot-plug, Redundant Power Supply (1+1), 1400W
Hard Drives (PCIe SSD/Flex	4 Nos 3.2TB, NVMe, Mixed Use Express Flash, 2.5 SFF Drive, U.2, PM1725b

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Bay):	with Carrier
Additional Network Adapters:	2 EX Dual Port 40/100GbE QSFP28 Adapter, PCIe Low Profile
	2 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile

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 componentes, 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: _____