

Corrigendum –V

Tender No. WTL/PAR/SDC/17-18/030, Dated 27.11.2017

1. This corrigendum is in reference to Corrigendum III & IV of Tender No. WTL/PAR/SDC/17-18/030 Dated 27.11.2017 should be treated as a part of the stated tender document.
2. Apart from the mentioned corrigendum clauses, all other sections/subsections/ clauses of Corrigendum III & IV shall be considered unaffected while submitting response to the above cited RFP.
3. The Bidder shall submit the signed copy of self-declaration that corrigendum are referred while preparing and submitting the response of this RFP.

Sl.	Section	Clause No.	Vol. and Page No.	Original Clause/Query/Request	Revised Clause/Amendment
1.	Section -B, Sub Section 1.2 - Eligibility Criteria	12	46	Confirm that the products quoted are not reaching End-of-Life (EOL) within two years & End-of-Support (EOS) within 6 years from the date of Final Acceptance Testing (FAT), otherwise the same will be changed with the superior product at no extra cost.	Clause changed as – Confirm that the products quoted are not reaching End-of-Life (EOL) within <i>2 years from the day of MAF</i> & End-of-Support (EOS) within 6 years from the date of Final Acceptance Testing (FAT), otherwise the same will be changed with the superior product at no extra cost.
2.	Section - D	9. EARNEST MONEY DEPOSIT (EMD)	72	The validity of EMD instrument will be initially 3 months, have to extend, if required.	Clause changed as - The validity of EMD instrument will be initially 6 months, have to extend, if required.
3.	SECTION – H	1.01	89	Cloud compute setup as per requirement along with orchestration layer, cloud management setup & cloud monitoring system with License , O & M and post FAT 24X7 Support for 5 years from software OEM including updates, upgrades and patches for the project period. – Qty – 1 No.	Quantity is revised as 1 set
4.	SECTION – H: 1. Bill of material	Cloud Setup at WBSDC – Clause 1.01	89	Cloud compute setup as per requirement along with orchestration layer, cloud management setup & cloud monitoring system with License , O & M and post FAT 24X7 Support for 5 years from software OEM including updates, upgrades and patches for the project period. – Qty – 1 No.	Clause changes as – Cloud compute setup as per requirement along with orchestration layer, cloud management setup along with required management servers & cloud monitoring system with License , O & M and post FAT 24X7 Support for 5 years from software OEM including updates, upgrades and patches for the project period. – Qty – 1 Set
5.	7.1 Cloud Specification s:	2.1 Cloud Orchestrati on	116	Cloud service Orchestration System should enable to provision cloud	Clause changed as -

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		attributes		resources through self service provisioning interface, subject to approvals through workflows customized for the SDC. This self service capabilities should be available through a web interface, to be designed/ customized as per WBSDC requirement. This web interface should be user friendly and should have separate screens/ dashboards/ work flows for SDC Cloud Administrator and User Departments. The self-service portal for users should provide facilities to order and manage all possible services. The solution should be open source in nature with enterprise class 24x7 support from OEM. Bidder should provision required management servers for cloud orchestration while proposing the solution.	Cloud service Orchestration System should enable to provision cloud resources through self service provisioning interface, subject to approvals through workflows customized for the SDC. This self service capabilities should be available through a web interface, to be designed/ customized as per WBSDC requirement. This web interface should be user friendly and should have separate screens/ dashboards/ work flows for SDC Cloud Administrator and User Departments. The self-service portal for users should provide facilities to order and manage all possible services. The solution should be open source in nature with enterprise class 24x7 support from OEM. Bidder should provision required management servers for cloud orchestration while proposing the solution.
6.	7.3.3 Blade servers 7.3.1 Rack Servers 7.3.2 Rack Servers	Cache L3	123, 121, 122	Min 25 MB	Clause changed as - Min 18 MB per processor
7.	7.3.3	10	123	The server should have redundant dual Port 10G adapters (2 Nos of Dual Port or 2 Nos of Quad Port 10G NICs) to provide adapter level redundancy. The adapters should be enabled with FCoE or iSCSI hardware offload	Clause changed as - The server should have redundant dual Port 10G adapters (2 Nos of Dual Port or 2 Nos of Quad Port 10G NICs) to provide adapter level redundancy. The adapters should be enabled with FCoE or iSCSI hardware offload. Each adapter must terminate into different pair of enclosure I/O modules / switches
8.	7.3.4. Specification	3. Switch Modules	124	Switch Modules: 1. The Chassis should have minimum of 2	Clause changed as -

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	s for Blade Chassis			<p>x 10G converged switches. The switches should be enabled with adequate number of downlink ports to support 4 x 10G ports per blade server for the full capacity of offered blade chassis. Each switch should have a minimum of 4X10Gbps/8x8Gbps/4 x 16Gbps FC uplinks for storage connectivity, 2 x 10G SR and 2 x 1G RJ 45 uplinks for LAN connectivity. The switch should be designed to support both LAN and SAN environments, offering Layer 2 features for the LAN and support for connectivity to SAN including FCoE, Fiber Channel, iSCSI, and NAS storage.</p> <p>Or</p> <p>2. Separate 2 nos. Converged switches 24 ports</p> <p>Or</p> <p>2. Separate 24 port 16Gbps FC switches (2 nos.) & 10/25 Gbps Ethernet switches (2 nos.)</p>	<p>The chassis should be configured with suitable switch moduled such that: Each Blade Server should have 4 nos. (2+2) 10G Ethernet Ports & 2 nos. (1+1) 16G FC ports in redundant configuration uplinked to 1 or more pairs of Ethernet switches. The Switch pair(s) should have aggregate 16 nos. 10Gbps SFP+ Ethernet Uplinks.</p> <p>Each Blade Server should have 2 nos. (1+1) 16G FC ports in redundant configuration uplinked to 1 or more pairs of FC switches. The switch pair should have aggregate 16 nos. 16Gbps FC uplinks.</p> <p>ALTERNATIVELY, a bidder may propose converged redundant solution as an aggregate of the above in terms of speeds & counts of ports</p>
9.	7.3.4	3	124	Each switch should deliver non-blocking architecture with minimum 1.28 Tbps throughput and full line write performance.	Tender Clause stands deleted
10.	7.3.4	3	124	The proposed converged switches should be capable of supporting 16G FC transceivers for SAN connectivity and 40G transceivers for LAN environment.	<p>Clause changed as –</p> <p>The proposed converged switches should be capable of supporting 8G/16G FC transceivers for SAN connectivity and 40G transceivers for LAN environment.</p>
11.	SECTION – B; Sub-section 7.3.1 -	10	129	The storage system should have TOTAL minimum 1 TB Cache extendible to 2 TB across all controllers (usable cache memory after cache protection overheads)	<p>Clause changed as –</p> <p>The storage system should be with 2 TB Cache across supplied controllers (usable</p>

Sl.	Section	Clause No.	Vol. and Page No.	Original Clause/Query/Request	Revised Clause/Amendment
	Specification for All flash/FMD 100 TB storage (For WBSDC) and 120TB (For NDC)			with an ability to protect data on cache if there is a controller failure or power outage. The usable cache should only be used for reads & writes of workloads. SSDs will not be considered as cache memory.	cache memory after cache protection overheads) with an ability to protect data on cache if there is a controller failure or power outage. The usable cache should only be used for reads & writes of workloads. SSDs will not be considered as cache memory.
12.	7.3.1	Clause 13	129	Should support various RAID levels like Single Parity RAID, Dual Parity RAID & Mirrored RAID.	Clause changed as – Should support various RAID levels.
13.	7.3.1	Clause 14	129	The architecture should be designed as a NSPOF architecture.	Tender Clause stands deleted
14.	7.3.1	Clause 21	129	The storage system should support remote replication for both file and block. For optimal usage of bandwidth and to reduce operating expenses remote replication should provide “Data De-duplication and Compression”. Any additional hardware or software required to achieve the same should be provided along with replication solution.	Clause changed as – The storage system should support remote replication for both file and block. For optimal usage of bandwidth and to reduce operating expenses remote replication should provide “Data De-duplication and Compression”. Any additional hardware or software required to achieve the same should be provided along with replication solution. For OEMs not providing data deduplication, remote replication should provide Compression.
15.	SECTION – I; Sub-section 7.3.1 - Specification for All flash/FMD 100 TB storage (For WBSDC) and	27	130	Easy to use GUI based and web enabled administration interface for configuration (Create/delete/configure Luns/Tiering/ Alerts / Cloud configuration)	Clause changed as – Easy to use Single GUI based and web enabled administration interface for configuration (Create, delete, configure Lun, Tiering Alerts , Cloud configuration and DR Replication)

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	120TB (For NDC)				
16.	7.3.1	Clause 30	130	The storage shall support logical/Virtual partitioning of controllers in future such that each partition appears as a separate storage in itself. Vendor should provide the licenses for maximum supported capacity of the proposed storage.	Clause changed as – The storage shall support logical/Virtual partitioning /multitenancy of controllers in future such that each partition appears as a separate storage in itself. Vendor should provide the storage virtualization licenses for maximum supported capacity of the proposed storage.
17.	7.3.3 Tape Library	Architecture and future Scalability	132	The offered Automated tape Library should be supplied with min 10 LTO7 FC Tape drives and 240 Slots with Redundant Power Supply. The Tape Library must be further scalable to minimum 18 LTO7 drives & 500+ Slots, as and when required by the SDC by stacking expansion modules for drives and slots for future growth within the same library.	Clause changed as – The offered Automated tape Library should be supplied with min 10 LTO7 FC Tape drives and 200 Slots with Redundant Power Supply. The Tape Library must be further scalable to minimum 18 LTO7 drives with minimum 360 slots as and when required by the SDC by stacking expansion modules for drives and slots for future growth within the same library.
18.	7.4.6, Leaf (Copper) Specification	B. Hardware and Interface Requirement - Clause 3	149	Switch must support FCOE	Tender Clause stands deleted
19.	Section- 1.3	18-A	195	The system static bypass shall be hot swappable and provide no break transfer of the critical load from the inverter output to the static bypass input source during times where maintenance is required, or	Clause changed as – The system static bypass shall be modular and provide no break transfer of the critical load from the inverter output to the static

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				the inverter cannot support the critical bus.	bypass input source during times where maintenance is required, or the inverter cannot support the critical bus.
20.	SECTION - S ;GENERAL CONDITIONS OF THE CONTRACT	8. SI's Team ; Point 8.5	258-59The SI, in such a case, shall find a competent substitute with equivalent background for the outgoing member to the satisfaction of the SIA.....	Clause changed as – The SI, in such a case, shall find a competent substitute with equivalent background for the outgoing member to the satisfaction of the SIA in accordance with the terms of this agreement
21.	SECTION – H	1.8 Data Center Infrastructure Management Sr. No. 12	209	The graphical floor plan of the configured data center layout should include overlays showcasing capture index (CI), plenum pressure, plenum velocities, and 3D rendering of the temperature map, including airflow and temperature thresholds. As the design takes place, client will get a qualified estimation of the effect of changes in supply temperature, airflow, and number of cooling units and room-based cooling parameters. The data is expected to be simulated on the basis of plate rating of various cooling devices, racks, perforated tiles, grilles etc.	Tender Clause stands deleted
22.	SECTION – H	1.8 Data Center Infrastructure Management Sr. No. 20	209	Real time server power consumption and Real time cpu utilization. This detection of server level details should happen without installing any special agents on the servers for discovery using standard protocols like SNMP, WMI, SSH, Telnet or through VMWARE/service processor integration. WMI, SSH, VMWARE access would be through root level administrator logins per server or vCenter basis which will be given to DCIM vendor by the client.	Clause changed as - Real time server power consumption. This detection of server level details should happen without installing any special agents on the servers for discovery using standard protocols like SNMP, WMI, SSH, Telnet or through VMWARE/service processor integration. WMI, SSH, VMWARE access would be through root level administrator logins per server or vCenter basis which will be given to DCIM vendor by the client.

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23.	Section - M(MAF)	NA	241	We also confirm that _____ is our authorized service provider/system integrator and can hence provide maintenance and upgrade support for our products.	Clause changed as – We also confirm that _____ is our authorized <i>service provider/system integrator/partner</i> and can hence <i>arrange/provide</i> maintenance and upgrade support for our products.
24.	Section - M(MAF)	NA	241	We also confirm that the products quoted are on our current product list and are not likely to be discontinued within 6 years from the day of this letter. We assure availability of spares for the products for the next Six years from the date of Final Acceptance Test (FAT).	Clause changed as – We also confirm that the products quoted are on our current product list and are not likely to be discontinued within <i>2 years</i> from the day of this letter. We assure availability of spares for the products for the next Six years from the date of Final Acceptance Test (FAT).
25.	SECTION - S ;GENERAL CONDITION S OF THE CONTRACT	2nd paragraph	251	Whereas State Government is desirous of for design, Supply, Installation, integration and Commissioning of Physical, Non IT and IT infrastructure for the expansion area for server farm in WBSDC for a period of 20 weeks from the date of signing of this contract, conforming to specifications as set forth in the Scope of Work	Clause changed as - Whereas State Government is desirous of for design, Supply, Installation, integration and Commissioning of Physical, Non IT and IT infrastructure for the expansion area for server farm in WBSDC for a period of 25 weeks from the date of signing of this contract, conforming to specifications as set forth in the Scope of Work
26.	SECTION - S ;GENERAL CONDITION S OF THE CONTRACT	7. SI's Obligations ; Point 7.2.2	256	... The SI shall ensure that the Services are performed through the efforts of its Team, in accordance with the terms hereof and to the satisfaction of the SIA....	Clause changed as – ... The SI shall ensure that the Services are performed through the efforts of its Team, in accordance with the terms hereof and to the satisfaction of the SIA in accordance with the terms of this agreement
27.	SECTION - S ;GENERAL CONDITION	23. Payment Schedule	266	Note: "The O&M phase may be executed by a separate Data Center Operator, if decided by the competent authority."	Tender Clause stands deleted

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	S OF THE CONTRACT				
28.	SECTION - S ;GENERAL CONDITION S OF THE CONTRACT	31. Limitation of the SI's Liability towards the SIA	270	<p>31.1 Except in case of gross negligence or willful misconduct on the part of the SI or on the part of any person or company acting on behalf of the SI in carrying out the Services, the SI, with respect to damage caused by the SI to SIA's property shall not be liable to SIA.</p> <p>31.2 For any indirect or consequential loss or damage; and</p> <p>31.3 For any direct loss or damage that exceeds (A) the total payments payable under this contract to the SI hereunder or (B) the proceeds the SI may be entitled to receive from any risk management provided by the SI to cover such a liability, whichever of (A) or (B) is higher but limited to the total contract value.</p> <p>31.4 This limitation of liability shall not affect the SI's liability, if any, for damage to Third Parties caused by the SI or any person or firm/company acting on behalf of the SI in carrying out the Services.</p> <p>31.5 Liability as mentioned in Clause 16 of Section D of the tender document needs to be adhered by the SI as applicable.</p>	<p>Clause 31. Limitation of the SI's Liability towards the SIA: changed as -</p> <p>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 contractor claim), Contractor shall be liable for no more than:</p> <ul style="list-style-type: none"> • 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 contract or shall not be liable for: <ul style="list-style-type: none"> - any indirect, consequential loss or damage, lost profits, third party loss or damage to property or loss of or damage to data. - any direct loss or damage that exceeds the total payment for Contract Price made or expected to be made to the Contract or hereunder.

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29.	Section -S	30.2 Dispute Resolution	270	If, after thirty days from the commencement of such direct informal negotiations, the SIA and the SI have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanism specified in Clauses 31.3 and 31.4.	Clause changed as – If, after thirty days from the commencement of such direct informal negotiations, the SIA and the SI have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanism specified in Clauses 31.

In the main commercial Bid format, the following additional items are added for price discovery purpose & quantities mentioned are indicative only & may not be ordered along with the initial LOI/PO. These items will also be considered for financial evaluation & the cost of the following items should be valid for a minimum period of 2 years so that order can be placed as per the future requirement.

In addition to the BOQ as mentioned in technical bid format of RFP, bidder must have to submit the unpriced BoQ for the following items:

Sl No	Item Description	Item Make & model	Quantity	Unit
1	Blade Servers scalable items			
	32 GB DDR4 RAM module		20	No.
	64 GB DDR4 RAM module		10	No.
	128 GB DDR4 RAM module		5	No.
2	Rack Servers scalable items			
	32 GB DDR4 RAM module		20	No.
	64 GB DDR4 RAM module		10	No.
	128 GB DDR4 RAM module		5	No.
	1200GB 10K 12Gbps SAS 2.5 inches HDD		10	No.
	600GB 10K 12Gbps SAS 2.5 inches HDD		20	No.
3	Storage scalable items			
	Additional 20 TB usable capacity with required licenses, accessories		1	No.

	Additional 50 TB usable capacity with required licenses, accessories		1	No.
	Additional 100 TB usable capacity with required licenses, accessories		1	No.
	Additional enclosure		1	No.
4	Tape Library Scalable items			
	1 no FC Tape Drive with required accessories, accompanying slots, licenses etc. to complete the upgrade		20	No.
5	SAN Switch			
	Additional 8 port with required licenses		4	No.
	Additional 16 port with required licenses		2	No.
	FC Transceivers (8/16Gbps)		4	No.
6	Backup Solution (As applicable for the proposed solution)			
	per O/S instance		5	No.
	per DB instance		5	No.
	Volume based (1TB)		10	No.
7	Endpoint Protection License as proposed in the RFP			
	Server (Windows)		10	No.
	Server (Linux)		10	No.
	Desktop (Windows)		10	No.
	Desktop (Linux)		10	No.
8	Hypervisor (as per proposed solution)			
	eg.Hyper-V (As per hypervisor functional requirements in the RFP)		4	No.
	eg. Linux Xen (As per hypervisor functional requirements in the RFP)		4	No.
	eg. KVM (As per hypervisor functional requirements in the RFP)		4	No.
	eg. RHEV (As per hypervisor functional requirements in the RFP)		4	No.
	eg. ESXi (As per hypervisor functional requirements in the RFP)		4	No.

9	UPS scalable items			
	1 Module of 20/25/30/50 KVA for proposed UPS solution with Accessories		1	No.
10	Battery scalable items			
	VRLA Battery for critical UPS		10	No.
11	Cloud Setup Licenses			
	Latest DC Edition Windows Based on 2 servers each 2 Pr 14Core or above with support from software OEM including updates, upgrades and patches for the project period.		1	No.
	Open source/Open stack Enterprise Linux Virtual Datacenter, based on 10 servers each 2Pr 14Core or above, with support from software OEM including updates, upgrades and patches for the project period.		1	No.

Additional to the clause revised or amended as mentioned in the above table, the following points to be noted while submitting the proposal.

1. WTL reserves the right to exclude any item(s) from the selected SI if the cost of the item(s) is very high compared to the price estimated based on negotiated and discovered cost from the earlier Tenders. WTL shall in such cases raise another Tender to purchase the equipment and the SI should be bound to supply and/or integrate the same in the overall solution.
2. No product should be offered by the SI, for which the Service Centre, Support Team, TAC and separate warehouse is not located within India.