

**Corrigendum – Tender Reference No.: DGRPG/RackServer\_HCI/2023/1**

SN	Tender / ATC Clause No.	Page No.	Tender / ATC Clause	Tender / ATC clause details / specification	Revised Clause
1	2.5	5	Document control sheet	Date and time for submission of bids: <b>12-10-2023</b> upto 11:00 Hrs	Date and time for submission of bids: <b>25-10-2023</b> upto 11:00 Hrs
2	5.1.2.3	8	Eligibility / pre-qualification criteria	The bidder should have positive net worth and average annual turnover of more than <b>Rs. 35 crores</b> for any three of the last five financial years reported i.e. till FY 2022-23.	The bidder should have positive net worth and average annual turnover of more than <b>Rs. 20 crores</b> for any three of the last five financial years reported i.e. till FY 2022-23.
3	4.1.4	7	Introduction	Additional Point	The bidding of Rack Server and HCI are independent. In case bidding for either equipment (Rack Server or HCI) does not materialize for whatsoever reason, bidding for the other equipment shall not be affected.
4	7.2.1	24	Processor	Processor Turbo Frequency (GHz) - <b>3.5 or higher</b>	Processor Turbo Frequency (GHz) - <b>3.1 or higher</b>
5	7.2.1	24	Rack Server	Motherboard - <b>Expansion Slots Gen 3 (PCIe x16)</b> -Minimum 4 PCI slots per server required	Motherboard - <b>Expansion Slots Gen 3 (PCIe x16/x8)</b> -Minimum 4 PCI slots per server required

6	7.2.1	26	Rack Server	<p>Security Features-1-Secure Boot (Firmware and Bios Level Security or same feature), Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy-based security, Server should provide server intrusion detection, <b>security dashboard, "Malicious Code Free design" (to be certified by OEM)</b></p>	<p>Security Features-1"Secure Boot (Firmware and Bios Level Security or same feature), Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy-based security, Server should provide server intrusion detection"(to be certified by OEM)"</p>
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7	7.2.1	27	Virtualization	<p>Offered servers shall have included virtualization software with Compute virtualization layer that sits directly on the bare metal server hardware with no dependence on a general purpose OS with features like <b>proactive HA</b>, replication, fault tolerance with continuous availability of VMs with zero downtime and zero data loss, hot add of CPU, memory, devices for windows as well as Linux VMs, <b>VM level encryption, secure boot</b>, uninterrupted service delivery within and across datacenter at geographical distance (&lt;100ms latency), <b>distributed virtual switch, kernel embedded network and storage virtualization technology</b>. Live Virtual Machine migration between different generations of CPUs in the same cluster with and without the need for shared storage option. All required licenses for the same shall be included in the offer. <b>Support for</b> Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall solutions with/without the need for agents inside the virtual machines. Live migration of VMs and virtual disk without any downtime from one physical host and storage to another with or without shared storage between clusters, across virtual switches and management servers.</p>	<p>Offered servers shall have included virtualization software with Compute virtualization layer that sits directly on the bare metal server hardware with no dependence on a general purpose OS with features like replication, fault tolerance with continuous availability of VMs with zero downtime and zero data loss, hot add of CPU, memory, devices for windows as well as Linux VMs. uninterrupted service delivery within and across datacenter at geographical distance (&lt;100ms latency), Live Virtual Machine migration between different generations of CPUs in the same cluster with and without the need for shared storage option. All required licenses for the same shall be included in the offer. Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall solutions with/without the need for agents inside the virtual machines. Live migration of VMs and virtual disk without any downtime from one physical host and storage to another with or without shared storage between clusters, across virtual switches and management servers. <b>Support for proactive HA, VM level encryption, secure boot, distributed virtual switch, kernel embedded network and storage virtualization technology.</b></p>
8	7.2.2	29	High Availability Features	<p>The proposed solution should be capable of connecting to FC SAN for VM migration and reusing existing Storage natively using FC HBA.</p>	<p>Clause stands deleted.</p>

9	7.2.2	29	Backup Features	<p>The Bidder shall provide the required backup solution (Either in-built) or additional for above backup requirements. Vendor shall ensure that backup engine shall be running on each offered HCI node. If a vendor needs to create a separate VM for backup and recovery operations, Vendor shall ensure that VM shall be created on each offered HCI node in HA. Each VM shall be allocated at-least 128GB memory, 8 physical cores and 2 x 10/25Gbps ethernet ports. Native storage/VM level snapshots or Space efficient full backups with no impact to guest performance or using any additional storage capacity.</p>	<p>Clause stands deleted.</p>
10	7.2.2	30	Storage and Data Protection Features	<p>The solution shall provide hyper-converged software that allows delivery of enterprise-class storage services using the x86 server infrastructures without dependence on a separate Storage Area Network &amp; associated component such as SAN Switches &amp; HBAs. <b>It should be capable of supporting VMware ESXi. / Microsoft Hyper V.</b></p>	<p>The solution shall provide hyper-converged software that allows delivery of enterprise-class storage services using the x86 server infrastructures without dependence on a separate Storage Area Network &amp; associated component such as SAN Switches &amp; HBAs. <b>It should be capable of supporting VMware ESXi. / Microsoft Hyper V / Nutanix AHV.</b></p>

11	7.2.2	31	Support and Licenses	<p>The proposed solution should consist of 4 nodes, each with the following specifications:</p> <ul style="list-style-type: none"> <li>• Processor: 2x Intel Gold processors with <b>40 cores or more per node</b></li> <li>• RAM: 1024GB per node.</li> <li>• Storage: 15TB usable storage per node, designed with SSDs not larger than 4TB.</li> <li>• 4x10GbE SFP+ Ports, <b>1GbE management ports.</b></li> <li>• Fault tolerance: able to tolerate one node failure without any data loss. To achieve fault tolerance, a suitable clustering or high availability solution should be implemented, such as using a distributed file system or storage system that replicates data across multiple nodes. This will ensure that in case of a node failure, the data remains accessible and no data is lost.</li> </ul>	<p>The proposed solution should consist of 4 nodes, each with the following specifications:</p> <ul style="list-style-type: none"> <li>• Processor: 2x Intel Gold processors with <b>40 cores per socket or more</b></li> <li>• RAM: 1024GB per node.</li> <li>• Storage: 15TB usable storage per node, designed with SSDs not larger than 4TB.</li> <li>• 4x10GbE SFP+ Ports, <b>Uplink 2x10/25Gbps 1GbE management ports.</b></li> <li>• Fault tolerance: able to tolerate one node failure without any data loss. To achieve fault tolerance, a suitable clustering or high availability solution should be implemented, such as using a distributed file system or storage system that replicates data across multiple nodes. This will ensure that in case of a node failure, the data remains accessible and no data is lost.</li> <li>• <b>All the solution software license should be perpetual.</b></li> </ul>
12	7.2.2	31	Power	Max power consumption - <b>1200 W</b>	Max power consumption - <b>1200 W per Node</b>
13	7.2.2	32	Future upgrade	Per Node configuration for future upgrade, <b>2x Intel Gold 40 Core Processor, 1024 GB RAM,10TB Usable capacity on SSD, 4x10GbE SFP+ Ports, 1GbE management ports</b> with same features and required components for the same HCI solutions.	Per Node configuration for future upgrade, <b>2x Intel Gold 40 Core Processor per socket, 1024 GB RAM,15TB Usable capacity on SSD, 4x10GbE SFP+ Ports, 1GbE management ports</b> with same features and required components for the same HCI solutions.
14	7.3.1	32	Delivery & Installation	The delivery, installation & commissioning of the equipment should be completed within <b>45 days</b> from the date of issue of work order	The delivery, installation & commissioning of the equipment should be completed within <b>60 days</b> from the date of issue of work order

15	8.5	34	SLA and Liquidated Damages	Activity - Preventive Maintenance of the equipment. Target/Service Level - <b>At least twice a year (in the months of January and June each year) or within 2 days after a request for the same is raised by DGRPG.</b>	Activity - Preventive Maintenance of the equipment. Target/Service Level - <b>Within 2 days after a request for the same is raised by DGRPG.</b>
16	8.7	34	SLA and Liquidated Damages	Activity - <b>Submission of RCA report for each failure.</b> Target / Service Level - <b>Within 7 days of complaint</b>	Activity - <b>Submission of RCA report for a failure as and when requested by DGRPG</b> Target / Service Level - <b>Within 7 days after a request for the same is raised by DGRPG.</b>
17	9.1.1	35	Payment Terms	Payment to the Service Provider shall be made in Indian Rupees through NEFT / RTGS <b>only on quarterly basis.</b>	Payment to the Service Provider shall be made in Indian Rupees through NEFT / RTGS.

**Response to Queries (RTQ) – Tender Reference No.: DGRPG/RackServer\_HCI/2023/1**

SN	Tender / ATC Clause No.	Page No.	Tender / ATC Clause	Tender / ATC clause details/specification	Amendment Sought / Suggestion	Justification	PSeGS Response
1	5.1.2.3	8	Eligibility / pre-qualification criteria	The bidder should have positive net worth and average annual turnover of more than Rs. 35 crores for any three of the last five financial years reported i.e. till FY 2022-23.	<p>1. The bidder should have positive net worth and average annual turnover of more than Rs. 20 crores for any three of the last five financial years reported i.e. till FY 2022-23.</p> <p>2. Please change turnover to 20 Cr.    3. Kindly change this clause</p>	<p>1. As every bidder does not have 35 Cr. In last 3 years. so, request you to please change this to 20 cr.</p> <p>2. Our Company is, MSME registered company with average Annual Financial turnover is Rs.21 Crore in last 3 years and not able to participate in your floated just because asked financial annual turnover is Rs. 35 Crore, we request to please reduce financial annual turnover is upto Rs. 20 Crore instead of Rs. 35 and give us a chance to at least participate in the floated RFP. And as per the policy laid by Govt. of India for MSME &amp; Start-up Policy our request can be considered .It's our humble request to consider. our request to reduce financial annual turnover.</p> <p>3. As every bidder does not have 35 cr. In last 3 yeras. So, request you to please change this to 20 cr.</p>	Refer Corrigendum

2	5.1.2.4	8	Eligibility / pre-qualification criteria	<p>Bidders should have successfully completed "similar work" in government (departments/ boards/corporations/ PSUs/ Societies) / Large reputed Enterprise during the last ten years ending 31.03.2023.</p> <ul style="list-style-type: none"> <li>• One similar work costing not less than the amount equal to Rs. 5 crore. OR</li> <li>• Two similar works each costing not less than the amount equal to Rs. 3.5 crore each. OR</li> </ul> <p>Three similar works each costing not less than the amount equal to Rs. 2.5 crore each.</p>	<p>1. Kindly change this clause to 3 orders of 1Cr. Each OR Kindly amend the same as follows: Bidders should have successfully completed "similar work" in government (departments/ boards/ corporations/ PSUs/ Societies) / Large reputed Enterprise during the last ten years ending 31.03.2023. • One similar work costing not less than the amount equal to Rs. 1 crore. OR • Two similar works each costing not less than the amount equal to Rs. 70 Lacs each. OR Three similar works each costing not less than the amount equal to Rs. 50 Lacs each. Or Kindly consider undertaking / self-declaration form data center vendors who are using their in house data center for commercial use. 2. Bidder/OEM should have successfully completed "similar work" in government (departments/ boards/corporations/ PSUs/ Societies) / Large reputed</p>	<p>1. Split these orders into :- Three similar works each costing not less than the amount equal to Rs. 1. crore each . because every Partner don't have 2.5 Cr amount 3 orders.</p>	As per RFP
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3	5.1.2	8	Eligibility / pre-qualification criteria	–	<p>1. Kindly change this clause to OEM/Bidder.</p> <p>2. Kindly change this clause to OEM/Bidder.</p> <p>3. Kindly change Past performance with OEM/Bidder</p>	<p>1. Kindly change this clause to OEM/Bidder. Because every bidder doesn't have Same eligibility in both components.</p> <p>2. Kindly change this clause to OEM/Bidder. So if any bidder doesn't have the same past performance, they can participate with the help of their OEM. Kindly split up the experience criteria as EMD is divided for both components of the tender.</p> <p>3. Because every bidder doesn't have a PO of the same amount. Although we have been working on these solutions from past years , the PO amount is not as per the requested value. Please change this to three POs of one crore or allow bidders / OEMs.</p>	As per RFP
4	–	–	Additional Point	Consortium	Please Allow Consortium		As per RFP
5	7.2.1	24	Technical Specifications	Rack Server	Please share the OEM and existing details		As per RFP
6	2.5	5	Document control sheet	Date and time for submission of bids: 12-10-2023 upto 11:00 Hrs	Please Allow / Extend Submission date 10 more working days.		Refer Corrigendum
7	7.1.7	24	Scope of Work - Introduction	Installation, commissioning, demonstration and 3 days onsite training of the equipment would be done by the OEM or its authorized / certified engineer. The Service Provider would do necessary coordination with the OEM for the same.	Installation & Commissioning would be done by OEM or its authorized /Certified engineer.	Regarding 3 day training, Kindly confirm the scope of training required & quality of instructor.	As per RFP

8	7.3.1	32	Delivery & Installation	The delivery, installation & commissioning of the equipment should be completed within 45 days from the date of issue of work order	<p>1. The delivery of the equipment should be completed within 45 days from the date of issue of work order and installation &amp; commissioning will be completed in 30 days after delivery.</p> <p>2. We would request to consider delivery period of 70 days and post delivery 30 days for installation &amp; commissioning, since there will be lead time 8 weeks from OEM side.</p> <p>3. The delivery, installation &amp; commissioning of the equipment should be completed within 90 days from the date of issue of work order.</p>	<p>1. Request you to consider the same because it required sufficient time to get the material installed as per the instruction given by Data Center team.</p> <p>2. As prospective bidder we would request to change the delivery, installation &amp; commissioning schedule for larger participation.</p> <p>3. Delivery, Installation &amp; commissioning of the equipment in such a short period of 45 days is not possible as it is a time taking process. Every OEM has their different delivery terms which are difficult to achieve in this short period. Hence we request you to amend the same as 90 days.</p>	Refer Corrigendum
9	8.1	33	SLA and Liquidated Damages	<p>Activity - Submission of PBG and signing of rate contract : 20 days from the issue of Lol.</p> <p>Target / Service Level - 20 days from the issue of Letter of Intent (Lol)</p>	30 days from the issue of Letter of Intent (Lol)	Request you to consider the same.	As per RFP
10	8.4	33	SLA and Liquidated Damages	<p>Activity - Resolution of the complaints and Service Support during warranty period (including the cases where the equipment is required to be replaced)</p> <p>Target/Service Level - Within T0 + 24 hours of lodging of complaint.</p> <p>Liquidated Damages for delays beyond target level - Rs. 5,000/- per day</p>	Liquidated damages Rs 5,000/- per day incase issue remains unresolved after 48 hrs	While we stand committed to resolve any issue within 24 hrs, Request you to consider liquidated damages clause	As per RFP

11	8.5	34	SLA and Liquidated Damages	Activity - Preventive Maintenance of the equipment. Target/Service Level - At least twice a year (in the months of January and June each year) or within 2 days after a request for the same is raised by DGRPG.	At least once a year (in the month of January each year) or within 7-10 days after a request for the same is raised by DGRPG	Request you to consider the same. Since Hardware component is replaced immediately on call in case found defective.	Refer Corrigendum
12	8.6	34	SLA and Liquidated Damages	Activity - Repeated occurrence of the issues in equipment despite resolutions by the Service Provider Deliverable - Permanent replacement of the equipment with a new one of equal or higher specification	Please delete this.	Servers have 3-4 components only and they can be replaced in case of any repeated occurrence of any issue.	As per RFP
13	8.7	34	SLA and Liquidated Damages	Activity - Submission of RCA report for each failure. Target / Service Level - Within 7 days of complaint	RCA not possible for all calls.	RCA possible for Repeated Problems only. Within 30 days of resolution.	Refer Corrigendum
14	9.1.2	35	Payment Terms - General	Payment: 100% payment on delivery, installation and commissioning of the equipment shall be released to the vendor on production of following documents: - 9.1.2.1 Original copy of Invoice 9.1.2.2 Original copy of Delivery Challan 9.1.2.3 Original copy of Installation & Commissioning report 9.1.2.4 Tests & acceptance of DGRPG 9.1.2.5 Training report	1. Payment: 80% on delivery and 20% on installation & commissioning. 2. We would request you to release 80% payment against Delivery and balance 20% against installation and commissioning of the equipment. Since we need make the payment off front to our OEM's and our outflow and inflow will be effected, hence we request to relaease 80% against delivery. 3. We request you to kindly amend the payment terms as: 90% payment on delivery and inspection of equipments. 10% payment on installation and commissioning of the equipment shall bereleased to the vendor on production of following documents:	1. Request you to consider the same as these are high value goods. We are submitting BG also. 2. As prospective bidder we would request to change payment terms for larger participation. 3. As 100% after delivery & installation will be a constrain to MSME organisations like us. Hence to maintain the cash flow of the project we request you to amend the same.	As per RFP

15	7.2.2	28	Hyper Converged Infrastructure (HCI)	Solution Capability - All the components of HCI such as compute nodes, hypervisor OS, storage disks, management software should be factory installed and shipped ready for fast deployment.	All the components of HCI such as compute nodes, hypervisor OS, Software Defined Storage, storage disks, management software should be factory installed and shipped ready for fast deployment.	Software Defined Storage is an integral part of the HCI Appliance and must be included in the factory installed components. Otherwise DGR shall end up in procuring a sub-standard HCI Solution.	PI refer Solution Capability: HCI Solution, deliver with factory Installed (Pre-installed) with Software Defined Storage.
16	7.2.2	29	Cluster Capability	The solution should be expandable to 16 nodes (minimum) in the same cluster and (minimum) 64 nodes in federation; each node shall be able to access cluster storage capacity.	The solution should be expandable to 64 nodes (minimum) in the same cluster and each node shall provide both compute and storage capacity to the HCI cluster.  2. The solution should be expandable to 32 nodes (minimum) in the same cluster and (minimum) 64 nodes in federation; each node shall be able to access cluster storage capacity	1. As per section 7.1.4 on Page 23, scalability of upto 64 nodes is envisaged in HCI Cluster. Please note that 16 Nodes scalability favors a particular OEM but could be threat to investments of DGRPG since multiple clusters would require multiple HA & failover nodes, which would require unnecessary additional investment and will also limit the application scalability within the cluster as well. 2. Expandability is an important aspect of the solution scalability. Department will like to take the advantage of scalability in near future. So kindly mention the cluster expandability as 32 nodes.	As per RFP
17	7.2.2	29	High Availability Features	Each node should have a redundant boot/OS drive in RAID 1 configuration for high availability. Boot disks should be in addition to capacity and cache disks.	Each node should have a redundant boot/OS drive (M.2) in RAID 1 configuration with BOSS card for high availability.	In order to avoid performance issues on the OS Drives and to have parity in configuration across OEMs, it is recommended to mention the OS drive type as M.2 with BOSS Card.	As per RFP

18	7.2.2	29	High Availability Features	RF2 or One Copy of data for high availability in case of node failure.	Erasure Coding or RF2 or One Copy of data for high availability in case of node failure.	Each OEM has a different way of data protection. Request to kindly allow Erasure coding for functional requirement of One Node failure protection, for better participation from all the OEMs.	As per RFP
19	7.2.2	29	Backup Features	The Bidder shall provide the required backup solution (Either in-built) or additional for above backup requirements. Vendor shall ensure that backup engine shall be running on each offered HCI node. If a vendor needs to create a separate VM for backup and recovery operations, Vendor shall ensure that VM shall be created on each offered HCI node in HA. Each VM shall be allocated at-least 128GB memory, 8 physical cores and 2 x 10/25Gbps ethernet ports. Native storage/VM level snapshots or Space efficient full backups with no impact to guest performance or using any additional storage capacity	1. Bidder to provide separate Backup Server, licenses, software and capacity for the backup of the proposed HCI Solution. 2. Resources asked for backup VM would be in addition to resources asked by department or it would be carved out from the asked resources only. 3. The Bidder shall provide the required backup solution (Either in-built) or additional for above backup requirements. Vendor shall ensure that backup engine shall be running on each offered HCI node. If a vendor needs to create a separate VM for backup and recovery operations, Vendor shall ensure that VM shall be created on each offered HCI node in HA.	1. In-built backup within the HCI solution shall have the following disadvantages: a. Not able to restore in case of ESXi / HCI failure, since the backup will reside on the HCI nodes itself. b. Additional performance and resource overhead on the HCI solution leading to performance degradation of the production workloads. c. No agent based backup for the workloads like databases etc. d. no option for Tape out / Tape cloning leading to risk of long term backup unavailability. 2. Clarification requested. 3. Requesting to amend the clause as the backup VM is sized as per recommendations/industry best practices. Department should give the sizing choice to the bidder.	Refer Corrigendum
20	7.2.2	30	Storage and Data Protection Features	The solution should support standard industry protocols of ISCSI/NFS.	The solution should support standard industry protocols of ISCSI, NFS/SMB natively.	NFS (file) and iSCSI (block) serve different use cases and hence both must be requested for investment protection. Otherwise DGRPG may end up in procuring a sub-standard HCI solution.	As per RFP

21	7.2.2	30	Storage and Data Protection Features	The storage architecture needs to be integrated within or can be outside the kernel.	The software defined storage as part of the HCI solution should be integrated within the hypervisor kernel to provide better performance and resiliency and reduce less memory and CPU overhead. If the HCI solution need to run any control virtual machine(CVM) for providing storage services then the solution needs to factor in additional CPU, Memory and Storage. OEM to declare how much additional resources have been provided for this additional overhead of Storage VM	Architectures requiring separate VM for Storage Services tend to use additional CPU and Memory. Hence additional CPU and Memory resources need to be factored if such architecture is being proposed.	As per RFP
22	7.2.2	30	Management Features	Single Click Upgrade/Update for all components of computing (including network adapter, BIOS), hypervisor and SDS.	Single Click rolling Upgrade/Update for all components of computing (including network adapter, BIOS), hypervisor and SDS. Proposed HCI Solution should be aligned to a single product roadmap from a single vendor and a single support contract authorized to take support calls for both the hardware and software on the appliance.	In order to avoid the compatibility issues across different components and to avoid different roadmaps for different components (like software, hardware etc.), it is recommended to have single roadmap for all the components for the HCI solution.	As per RFP

23	7.2.2	31	Support and Licenses	<p>The proposed solution should consist of 4 nodes, each with the following specifications:</p> <ul style="list-style-type: none"> <li>• Processor: 2x Intel Gold processors with 40 cores or more per node</li> <li>• RAM: 1024GB per node.</li> <li>• Storage: 15TB usable storage per node, designed with SSDs not larger than 4TB.</li> <li>• 4x10GbE SFP+ Ports, 1GbE management ports.</li> <li>• Fault tolerance: able to tolerate one node failure without any data loss. To achieve fault tolerance, a suitable clustering or high availability solution should be implemented, such as using a distributed file system or storage system that replicates data across multiple nodes. This will ensure that in case of a node failure, the data remains accessible and no data is lost.</li> </ul>	<p>The proposed solution should consist of 4 nodes (1 RU / 2RU each) each with the following specifications:</p> <ul style="list-style-type: none"> <li>• Processor: 2x Intel Gold processors with 40 cores or more per node</li> <li>• RAM: 1024GB per node.</li> <li>• Storage: 15TB usable storage per node, designed with SSDs not larger than 4TB, 800GB SSD based Cache or higher per node. Overall solution must have 60TB Usable capacity across the 4 Nodes.</li> <li>• 4x10GbE SFP+ Ports using redundant dual-port network cards, 1GbE management ports.</li> <li>• Fault tolerance: able to tolerate one node failure without any data loss. To achieve fault tolerance, a suitable clustering or high availability solution should be implemented, with software defined storage that distributes across multiple nodes. This will ensure that in case of a node failure, the data remains accessible and no data is lost.</li> </ul>	<p>a. Kindly mention the Cache required per node for performance enhancement.  b. It is recommended to have dual port redundant network cards in order to achieve card Network card level redundancy as well.  c. Redundant Having storage system for capacity shall dissolve the previously mentioned HCI Specifications. Furthermore Storage system shall change HCI architecture to traditional 3 tier architecture which is not the intent of this RFP.</p>	Refer Corrigendum
24	7.2.2	31	Support and Licenses	<p>Bidder shall provide required licenses for replicating unlimited VMs per node to another cluster that needs to be considered. This feature needs to be over and above any replication features offered by the hypervisor itself.</p>	<p>Bidder shall provide required licenses for replicating unlimited VMs per node to another cluster that needs to be considered. This feature should be provided either with the Hypervisor of proposed HCI solution or by additional software.</p>	<p>Each OEM has a different architecture. Some have replication capabilities within HCI Hypervisor and some have separate software tools for the same.</p>	As per RFP

25	7.2.2	31	Support and Licenses	The solution should be configured with required switches in HA for inter node communication as well and shall be extendable for 40 nodes HCI	HCI Solution should include Redundant Interconnect switch to support low latency East-West traffic between HCI Nodes. Each switch should provide minimum 48 x 10 Gbps optical ports for HCI nodes connectivity, along with redundant power supplies and cooling fans. Each Switch should provide 80Gbps (2 x 40 Gbps) ethernet Bandwidth or higher for uplink connectivity to external LAN/Network & redundant 100 Gbps links for ISL (interswitch connectivity) . All required transceivers, switches, cables, should be included with overall proposed solution.	Current specifications do not clarify if the Network scalability to be achieved on the same switches or by connecting additional switches to the HCI solution in future.	As per RFP
26	7.2.2	31	Power	Max power consumption - 1200 W	Max power consumption - 1200 W per Node	Please confirm that the power consumption mentioned is for per node basis. The overall solution shall consume 3000 W	Refer Corrigendum

27	7.2.2	31	Resiliency	<p>1. Proposed solution must be able to support multiple points of failure across multiple nodes, with no loss of function or data.</p> <p>2. Proposed solution shall be offered with a combination of both Hardware based for disk failure at each node level and node failure shall be protected with at-least RF2 (Replication Factor 2).</p> <p>3. In case a vendor doesn't support disk failure protection at hardware level within a given node then the vendor shall provide the complete node protection in RF3 (Replication Factor 3).</p> <p>4. Must be able to compulsorily sustain minimum of simultaneous 1-HDDs failures in each node of a cluster and across all nodes in the cluster without data loss.</p> <p>5. Each offered node should be able to sustain 1 NIC port failure.</p>	<p>1. Proposed solution must be able to support multiple points of failure across multiple nodes, with no loss of function or data.</p> <p>2. Proposed solution shall be offered with a combination of both Hardware based for disk failure at each node level and node failure shall be protected with at-least FTT1 (Erasure Coding) or RF2 (Replication Factor 2).</p> <p>3. In case a vendor doesn't support disk failure protection at hardware level within a given node then the vendor shall provide the complete node protection in RF3 (Replication Factor 3).</p> <p>4. Must be able to compulsorily sustain minimum of simultaneous 1-HDDs failures in each node of a cluster and across all nodes in the cluster without data loss.</p> <p>5. Each offered node should be able to sustain 1 NIC card failure.</p>	<p>RF2 restricts the solution to one particular OEM only. Request to kindly allow FTT1 (Erasure Coding) for functional requirement of one node failure for wider participation from all the OEMs.</p> <p>2. It is recommended to have redundant dual ported NIC cards to ensure VM availability even during NIC Card failure along with port failure.</p>	As per RFP
28	7.2.2	32	Future upgrade	<p>Per Node configuration for future upgrade, 2x Intel Gold 40 Core Processor, 1024 GB RAM,10TB Usable capacity on SSD, 4x10GbE SFP+ Ports, 1GbE management ports with same features and required components for the same HCI solutions.</p>	<p>Per Node configuration for future upgrade, 2x Intel Gold 20 Core Processor, 1024 GB RAM,10TB Usable capacity on SSD, 4x10GbE SFP+ Ports, 1GbE management ports with same features and required components for the same HCI solutions.</p>	<p>As per the specification mentioned above, 40 Cores per Node are needed which means 20 Core per processor.</p>	Refer Corrigendum

29	7.2.2	30	Security Features	Suggestion	Please include: Native Virtual Machine Encryption also should be provided from day one. The HCI Appliance should be capable of supporting Data at Rest Encryption by software layer for better security, using		As per RFP
30	7.2.2	30	Management Features	Suggestion	Please include: Online portal should provide advanced metrics, capacity planning, Global Visualization, collect and analyze telemetry data based on Machine Learning to detect patterns and behavior and subsequently trigger health events and remediation steps for HCI system. The solution should support Online Analytics on Health of the HCI solution and provide predictive alerts.		As per RFP
31	7.2.2	28	Performance Features	The Bidder shall ensure minimum 40000 IOPs with 60:40 read: write ratio and 8K block size, either with cache or equivalent feature. Documentary proof/Data sheet for the performance needs to be submitted along with the proposal.	The Bidder shall ensure minimum 70000 IOPs with 60:40 read: write ratio and 8K block size per node, either with cache or equivalent feature. Documentary proof/Data sheet for the performance needs to be submitted along with the proposal.	40000 IOPS are very small if department is looking for all flash storage as 40000 IOPS can be achieved even with hybrid config with combination of SSD and HDD and department will be able to save lot of money without compromising on the performance. So kindly mentioned the per node IOPS.	As per RFP
32	7.2.2	29	High Availability Features	The proposed solution should be capable of connecting to FC SAN for VM migration and reusing existing Storage natively using FC HBA.	Should be removed.	Data migration is one time activity and the bidder/ OEMs provide migration solution as per industry best practices. Hence requesting the Department to remove this point to participate as major HCI OEM are getting restricted due to this clause.	Refer Corrigendum

33	7.2.2	30	Storage and Data Protection Features	The solution shall provide hyper-converged software that allows delivery of enterprise-class storage services using the x86 server infrastructures without dependence on a separate Storage Area Network & associated component such as SAN Switches & HBAs. It should be capable of supporting VMware ESXi. / Microsoft Hyper V	The solution shall provide hyper-converged software that allows delivery of enterprise-class storage services using the x86 server infrastructures without dependence on a separate Storage Area Network & associated component such as SAN Switches & HBAs. It should be capable of supporting VMware ESXi. / Microsoft Hyper V / Nutanix AHV	Hypervisor is one of the core component of the HCI. Department should evaluate all the available enterprise grade hypervisors in the industry. This is in-line with the Virtualization layer asked in the Rack Servers. This will ensure competition and best techno-commercial solution to the bidder.	Refer Corrigendum
34	7.2.2	30	Storage and Data Protection Features	Thin provisioning of both storage entities and virtual machine virtual disks	Thin provisioning of both storage entities.	Requesting to amend the clause as this is the industry best practices.	As per RFP
35	7.2.2	30	Storage and Data Protection Features	No Single Point of Failure with complete redundancy at all levels. Nodes should be configured to have at least one copy of data available in the cluster, in order to support data & cluster availability in the event of <u>One Node Failure.</u>	No Single Point of Failure with complete redundancy at all levels. Cluster should be configured to have at least two copies of data available in the cluster, in order to support data & cluster availability in the event of <u>One Node Failure.</u>	Requesting to ammend the clause as this is the industry best practice to keep redundant copies of data within cluster. Hence on the event of any of the node failure, the VMs will be serviced with the replicated copy of data.	As per RFP
36	7.2.2	31	Power	Max power consumption - 1200 W	Clarification required.	Is this the actual power consumed per node after loading with all the required components as per the specifications. Department may ask for the actual power consumed details from the bidder. OR This is the total power consumed of the cluster. If so, the total power consumed for the asked specification can never be so less for the cluster	Refer Corrigendum

37	7.2.2	31	Resiliency	<p>Proposed solution shall be offered with a combination of both Hardware based for disk failure at each node level and node failure shall be protected with at-least RF2 (Replication Factor 2).</p> <p>In case a vendor doesn't support disk failure protection at hardware level within a given node then the vendor shall provide the complete node protection in RF3 (Replication Factor 3).</p> <p>Must be able to compulsorily sustain minimum of simultaneous 1-HDDs failures in each node of a cluster and across all nodes in the cluster without data loss.</p>	Remove clause.	Requesting removal of the clause as resiliency asked is No Single point of Failure, in the entire solution.	As per RFP
38	7.2.2	31	Site Assessment	<p>Vendor shall do comprehensive Cloud based assessment, at-least for VMware environment on a quarterly basis and shall factor the required services for it. Assessment shall provide the detailed analysis of VMware Hosts – CPU &amp; Memory utilization, Storage analysis and relevant findings of contention, Culprit and Victim VMs in the environment attached to offered storage. Offered assessment shall do complete analysis of licensing as well.</p>	<p>Vendor shall do comprehensive Cloud based assessment, at-least for VMware environment on a quarterly basis and shall factor the required services for it. Assessment shall provide the detailed analysis of VMware Hosts – CPU &amp; Memory utilization, Storage analysis and relevant findings of contention, Culprit and Victim VMs in the environment attached to offered storage. Offered assessment shall do complete analysis of licensing as well.</p>	Requesting to amend the word VMware with the word HCI. This will ensure the entire cluster as per HyperVisor choice of department get the required services.	As per RFP

39	7.2.2	-	Additional Point	<p>1. Solution should provide Virtual Network visibility with application-centric protection from network threats and automation of common networking operations.</p> <p>2. Solution should integrate with 3rd party physical network &amp; security solutions (or their managers) from leading OEMs using programmable REST APIs/ OpenFlow/ Netconf/ Device packages to provide integration with existing Perimeter devices (network &amp; security).</p> <p>3. Solution should provide network micro segmentation using integration with existing stateful virtual firewall. The solution should provide micro segmentation management using the existing HCI management platform.</p> <p>4. Solution should provide creation of security groups and security policies/ rules based on parameters like virtual machine name/ OS type/ IP addresses/ Security Tags etc.</p> <p>5. Solution should provide granular control and governance across VM to VM traffic or VMs pre-defined Group/Department.</p> <p>6. Solution must ensure that only permitted traffic between application tiers or other logical boundaries is allowed and protects against advanced threats propagating within the virtual environment.</p> <p>7. Solution should support VM's life cycle policy based firewall rules for east west traffic across VM's through one management console without any third party software.</p> <p>8. Solution should integrate with third party network function software like virtual load balancers, virtual firewall etc.</p> <p>9. Solution should have zero trust policy model for connected systems or hosts.</p> <p>10. Solution should support traffic flows visualization with context of end-to-end Network Visibility from the VM, to the virtual</p>	Mandatory Clause which is missing to deal with new age cyber attacks. This is the mandatory specification hence request you to include the same for east and west traffic management.	For enhanced security of the solution	As per RFP
40	7.2.1	24	Processor	Number of Cores per Processor - 128 or higher	-	Intel does not offer 128 cores per socket , this is restricting Intel to participate here hence request you to amend the clause to total cores required per server	As per RFP

41	7.2.1	24	Processor	Processor Turbo Frequency (GHz) - 3.5 or higher	<p>1. Up to 3.1GHz.</p> <p>2. Up to 3.1GHz.</p> <p>3. Required Turbo frequency matches with 64 core processor only so please revise the requirement of number of cores / processor to 64C.</p> <p>4. Please amend clause as Processor Turbo Frequency (GHz) 3.1 or higher.</p>	<p>1. 9754 AMD proc mentioned here supports turbo clock frequency of 3.1 GHz only hence change this to 3.1 GHz turbo clock frequency.</p> <p>2. 9754 AMD proc mentioned here supports turbo clock frequency of 3.1 GHz only hence change this to 3.1 GHz turbo clock frequency.</p> <p>3. AMD do not have have 128 core processor with turbo freq with 3.5 Ghz so please revise number of cores accordingly.</p> <p>4. Asked processor 9754 have turbo frequency of 3.1 GHz.</p>	Refer Corrigendum
42	7.2.1	25	SSD Storage	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X) - 5 years warranty with no restriction of Writes on SSD	-	DWPD means data writes per drive in case Read intensive drives of 3.84 TB are quoted which have 1 DWPD it means it can max write 3.84 TB of data per day for 5 years hence kindly mention DWPD 1 or 3 or 10 is required from 1 single drive	As per RFP
43	7.2.1	25	Ports & Interfaces	FC HBA Speed (Gbps) - 4 X 32G FC Connectivity for Storage with NVME enabled	Yes Existing NVMe storage with front end FC ports is there, servers to have 2 X 2 Fiber channel ports	Just a clarity required NVMe storage is already deployed and up and running in environment servers would get connected to Nvme storage on Fiber channel, please clarify	As per RFP
44	7.2.1	26	Ports & Interfaces	Length of LC-LC Cable per HBA Port (meter) 15 M - 8	Yes 4 X LC-LC cables for 32G ports	HBA ports should require only 4 cables and not 8 cables, also specify length of cable required	As per RFP

45	Additional 128 GB RAM Module	-	Additional Point	Market position	The OEM for the proposed server must be in Leaders quadrant in the last two Gartner's report of "Magic Quadrant for Modular Servers" & should have been one of the top three server vendors (by market share revenue in IDC or Gartner report) in any of the previous 2 quarters		As per RFP
46	Additional 128 GB RAM Module	-	Additional Point	Configuration & management	<ul style="list-style-type: none"> <li>• Real-time out-of-band hardware performance monitoring &amp; alerting</li> <li>• Agent-free monitoring, driver updates &amp; configuration, power monitoring &amp; capping, RAID management, external storage management, monitoring of FC, HBA &amp; CNA &amp; system health</li> <li>• Out-of-band hardware &amp; firmware inventory</li> <li>• Zero-touch auto configuration to auto deploy a baseline server configuration profile</li> <li>• Telemetry Streaming</li> <li>• Idle Server Detection</li> <li>• Real-time power meter, temperature monitoring, customized exhaust temperature and System Airflow Consumption</li> </ul>		As per RFP

47	Additional 128 GB RAM Module	—	Additional Point	Server Security	Should provide effective protection, reliable detection & rapid recovery using: <ul style="list-style-type: none"> <li>- Silicon-based Hardware Root of Trust</li> <li>- Signed firmware updates</li> <li>- Secure default passwords</li> <li>- Configuration and firmware drift detection</li> <li>- Persistent event logging including user activity</li> <li>- Secure alerting</li> <li>- Automatic BIOS recovery</li> <li>- Rapid OS recovery</li> <li>- System erase</li> <li>- Dynamically enabled USB ports</li> </ul>		As per RFP
48	7.2.1	24	Processor	Processor Base Frequency (GHz) 1.9 or higher	Yes 2.25 base	Yes 2.25 base	As per RFP
49	7.2.1	24	Processor	Total Cache (L1+L2+L3) (MB) 112 MB or higher	Yes 256 MB cache	Yes 256 MB cache	As per RFP
50	7.2.1	25	Memory	Number of DIMM Slots populated with DDR SDRAM Maximum 16	Yes 16 X 128 GB LR DIMM	Yes 16 X 128 GB LR DIMM	As per RFP
51	7.2.1	25	SSD Storage	Capacity offered per SATA SSD (GB) 2 x 3.84 (or higher) TB SSD	Yes 2 X 3.84 TB RI SATA SSD AG drive	Yes 2 X 3.84 TB RI SATA SSD AG drive	As per RFP
52	7.2.1	25	Raid	Raid Level 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10	Yes H755 RAID controller	Yes H755 RAID controller	As per RFP
53	7.2.1	25	Ports & Interfaces	Network Card Supported 1G,10G	Yes 1 G in onboard and 10G on PCI	Yes 1 G in onboard and 10G on PCI	As per RFP
54	7.2.1	25	Ports & Interfaces	Number of Ports Per Network Interface Card with SFP fully loaded 4x10 Gbps SFP+ per server	Yes 2 X Quad port 10G SFP+ cards with 8 X 10G optics	Yes 2 X Quad port 10G SFP+ cards with 8 X 10G optics	As per RFP
55	7.2.1	25	Ports & Interfaces	Number of Dual ports FC HBA card 2	Yes 2 X DP 32G FC cards	Yes 2 X DP 32G FC cards	As per RFP
56	7.2.1	26	Ports & Interfaces	Length of LC-LC Cable per SFP+ Port (meter) 15 M - 8	Yes 8 X LC-LC cables for 10G ports	Yes 8 X LC-LC cables for 10G ports	As per RFP

57	7.2.1	26	Features	Management Features-1 Gigabit management port, should have virtual Media support with all required licenses., Remote KVM, Server Health Logging, Out of	Yes iDRAC enterprise, OME enetrprise Advanced, CloudIQ is free		As per RFP
58	7.2.1	27	Virtulization	Offered servers shall have included virtualization software with Compute virtualization layer that sits directly on the bare metal server hardware with no dependence on a general purpose OS with features like proactive HA, replication, fault tolerance with continuous availability of VMs with zero downtime and zero data loss, hot add of CPU, memory, devices for windows as well as Linux VMs, VM level encryption, secure boot, uninterrupted service delivery within and across datacenter at geographical distance (<100ms latency), distributed virtual switch, kernel embedded network and storage virtualization technology. Live Virtual Machine migration between different generations of CPUs in the same cluster with and without the need for shared storage option. All required licenses for the same shall be included in the offer. Support for Integration of 3rd party endpoint security to secure the virtual machines with	Yes VMware vsphere enterprise plus		Refer Corrigendum

59	5.2.1	10	EMD	1. Rs. 5,00,000 /- (Rs. Five Lakh Only) for participation in Rack Server only. 2. Rs. 5,00,000 /- (Rs. Five Lakh Only) for participation in HCI only. 3. Rs. 10,00,000 /- (Rs. Ten Lakh Only) for participation in both Rack Server and HCI.	We would request to consider EMD in form of Bank Guarantee instead of EMD online mode	As prospective bidder we would request to Accept Bank Guarantee instead of EMD online made for larger participation.	As per RFP
60	9.1.1	35	Payment Terms	Payment to the Service Provider shall be made in Indian Rupees through NEFT / RTGS only on quarterly basis.	We are not able to understand the clause 9.1.1, please clarify.		Refer Corrigendum
61	7.2.1	25	Rack Server	SSD Storage=> Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)=> 5 years warranty with no restriction of writes on SSD		DWPD means data writes per drive in case Read intensive drives of 3.84 TB are quoted which have 1 DWPD it means it can max write 3.84 TB of data per day for 5 years hence kindly mention DWPD 1 or 3 or 10 is required from 1 single drive	As per RFP
62	7.2.1	24	Rack Server	Processor=> Number of Cores per Processor=>128 or higher		Intel does not offer 128 cores per socket , this is restricting Intel to participate here hence request you to amend the clause to total cores required per server	As per RFP
63	7.2.1	25	Rack Server	Ports & Interfaces=> FC HBA Speed (Gbps)=> 4 X 32G FC Connectivity for Storage with NVME enabled	Existing NVMe storage with front end FC ports is there, servers to have 2 X 2 Fiber channel ports	Just a clarity required NVMe storage is already deployed and up and running in environment servers would get connected to Nvme storage on Fiber channel, please clarify	As per RFP
64	7.2.1	25	Rack Server	Ports & Interfaces=>Length of LC-LC Cable per HBA Port (meter) 15 M=> 8	4 X LC-LC cables for 32G ports	HBA ports should require only 4 cables and not 8 cables, also specify length of cable required	As per RFP

65	7.2.1	—	Experience Bifurcation	Experience Bifurcation	Kindly bifurcate Experience criteria as EMD is bifurcated	This will increase the participation of firms.	It is clarified that the bidder may participate for Rack Server or HCI or both. Separate rate contract would be established for rack server and HCI.
66	7.2.1	24	Rack Server	Processor Make-AMD/Intel	please revise as below: "Processor Make-AMD"	Intel do not have any processor which can provide 64 Core per processor so please update the clause accordingly.	As per RFP
67	7.2.1	24	Rack Server	Processor - Number of Cores per Processor -128 or higher	Please revise it to: "Processor - Number of Cores per Processor -64 or higher"	Intel do not have any processor which can provide 64 Core per processor and every OEM Server platform has different architecture so please revise as requested for wider OEM participation	As per RFP
68	7.2.1	24	Rack Server	Processor Description/ Number - AMD EPYC 9754 or intel equivalent	please remove this clause	Every OEM has different architecture so please allow the Bidder/OEM to provide the required processor as per Number of core per processor requirement for wider OEM participation	As per RFP
69	7.2.1	24	Rack Server	Motherboard - Chipset compatible with CPU-AMD EPYC 9754 or intel equivalent	please remove this clause	Every OEM has different architecture so please allow the Bidder/OEM to provide the required processor as per Number of core per processor requirement for wider OEM participation	As per RFP

70	7.2.1	24	Rack Server	Motherboard - Expansion Slots Gen 3 (PCIe x16)-Minimum 4 PCI slots per server required	please revise it to: "Motherboard - Expansion Slots Gen 3 (PCIe x16/x8)-Minimum 4 PCI slots per server required	Every OEM has different architecture so please revise as requested for wider OEM participation	Refer Corrigendum
71	7.2.1	25	Rack Server	Ports & Interfaces-FC HBA Speed (Gbps)-4 X 32G FC Connectivity for Storage with NVME enabled	we understand here 4x 32GC FC means total 4 - 32G FC ports with two dual FC HBA cards	please clarify	As per RFP
72	7.2.1	26	Rack Server	Certification-(Virtualization/Cloud platform)-Virtualization, Red Hat Virtualization, Citrix-Xen	please revise as below: "Virtualization, Red Hat Virtualization/Citrix-Xen"	Every OEM has different architecture so please revise as requested for wider OEM participation	As per RFP
73	7.2.1	26	Rack Server	Security Features-1-Secure Boot (Firmware and Bios Level Security or same feature), Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy-based security, Server should provide server intrusion detection, security dashboard, "Malicious Code Free design" (to be certified by OEM)	please revise as below: "Secure Boot (Firmware and Bios Level Security or same feature), Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy-based security, Server should provide server intrusion detection"	"Malicious Code Free design" is OEM specific , please remove and revise as requested	Refer Corrigendum
74	7.2.1	26	Rack Server	Management Features-1	The management software should participate in server provisioning, device discovery, inventory, diagnostics, monitoring, fault detection, auditing, statistics collection and provide proactive security & software advisory alerts and should outline the fixes required to address the issues.	Server management software is important for easy manageability and proactive notifications should be there in case of any issues so please add the point as suggested.	As per RFP
75	7.2.1	26	Rack Server	Management Features-1	Server management system should provide an alert in case the system is not part of OEM Hardware Compatibility list & should provide anti counterfeit and Automated hardware configuration and Operating	Ease of Hardware configuration with OEM hardware compatibility is needed in end to end to server provisioning so please add the point as suggested.	As per RFP

76	7.2.1	24	Rack Server	Motherboard - Expansion Slots Gen 3 (PCIe x16)	Expansion Slots Gen 5 (PCIe x16)	Latest generation server supporting 9754 CPU provide Gen 5 slots	As per RFP
77	7.2.1	25	Rack Server	Ports & Interfaces - Whether Network Interface Card Embedded	We undersand Network Interface Card should be integrated with in the server. Kindly confirm.	Clarification requested	Yes, the understanding is correct.
78	7.2.1	27	Rack Server	Virtualization	Please clarify if virtualisation manager required for rack server	Clarification requested	Virtualization manager is not required for rack server.
79	7.2.2	32	Future upgrade	Per Node configuration for future upgrade, 2x Intel Gold 40 Core Processor, 1024 GB RAM,10TB Usable capacity on SSD, 4x10GbE SFP+ Ports, 1GbE management ports with same features and required components for the same HCI	Please amend clause as "Per Node configuration for future upgrade, 2x Intel Gold 40 Core Processor, 1024 GB RAM, 15TB Usable capacity on SSD, 4x10GbE SFP+ Ports, 1GbE management ports with same features and required	As base cluster is asked with 15 TB usable capacity upgrade node should also be asked with 15 TB capacity for best performacne and resiliency	Refer Corrigendum
80	7.2.2	31	Support and Licenses	Storage: 15TB usable storage per node, designed with SSDs not larger than 4TB.	We understand 15 TB usable storage capcity is after RF-2. Kindly confirm	Clarification requested	Yes, the understanding is correct.
81	7.2.2	31	Support and Licenses	The proposed solution should consist of 4 nodes, each with the following specifications:	In the asked specification caching capacity is not asked / defined. Request to please ask for caching capacity of min 15% of data capacity (asked) in addition to data capacity	Caching capacity is very important for HCI data operations and very low or no caching capacity impacts HCI performance drastically.	As per RFP
82	7.2.2	31	Support and Licenses	The offered solution should support inline deduplication.	Please amend clause as "The offered solution should support inline deduplication and compression."	Compression also plays important role in data efficiency. Having inline compression would help data efficiency and faster I/O.	As per RFP

83	7.2.2	30	Storage and Data Protection Features	The HCI solution must support multi-site replication (one to one or many to one) and native VM level replication for installed Hypervisor.	Please amend clause as "The HCI solution must support multi-site replication (one to one or many to one) and native VM level replication for installed Hypervisor. Replication should not re-hydrate the data before replication"	As data efficiency features asked in the specification along with replication. For best results and benefits of de-duplication and compression data should not be rehydrated before replication.	As per RFP
84	7.2.2	—	Security	Additional point	Please add data at rest encryption,	Security is key concern for most of IT department. Data at rest encryption saves environment from many of the attacks. Request to please add this as requirement.	As per RFP
85	7.2.2	—	Security	Additional point	Please add all the security features asked for rack server for HCI hardware as well	Security is key concern for most of IT department. Secure HCI hardware saves environment from many of the attacks. Request to please add this as requirement.	As per RFP
86	5.1.5	9	Eligibility/Prequalification Criteria	Bidder shall submit the undertaking that the bidder: - <ul style="list-style-type: none"> <li>• Has not been ever under a declaration of ineligibility for corrupt or fraudulent practices and should not be blacklisted by any State Govt. / Central Govt. / Board, Corporations and Government Societies / PSU for any reason.</li> </ul>	We request you to kindly amend the clause as: <ul style="list-style-type: none"> <li>• Has not been under a declaration of ineligibility for corrupt or fraudulent practices and should not be blacklisted by any State Govt. / Central Govt. / Board, Corporations and Government Societies / PSU for any reason as on date of submission of bid.</li> </ul>	During the COVID pandemic period, deliveries of most of the projects had been affected resulting in delay in project completion. Whereas the delay was from OEM side. Still one of our client had imposed banning for project delay on us which has been now revoked. Hence we request you to amend the same as on date of submission instead of ever.	In case corrupt or fraudulent practice has been revoked against the bidder then the bidder is eligible.