Corrigendum 3 for Tender Document for IT Infrastructure for Tripura state data centre at Agartala

Serial No.	Clause no	Page No.	Original Spec	Queries	Final bid Response
1		Page 51 - Backup Solution - Point 32	The proposed backup appliance should have minimum 500GB usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1, 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan	Please confirm if this is 500GB or 500TB. Seems to be a typo error.	The proposed backup appliance should have minimum **600TB** usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1, 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan modules.
2		Page 51 - Backup Solution - Point 32	The proposed backup appliance should have minimum 500GB usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1, 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan modules.	Please share the front end data for which optimal sizing can be done for the solution by all the OEMs as each OEM would have different storage and capacity requirement as per their solution efficiency.Please specify the workloads and their size for Backup solution sizing as per the defined retention. Also, please share the daily change rate and Year on Year Growth %. Below draft can be used to share the sizing details - Proposed purpose built backup appliance (PBBA) should be sized appropriately for front-end data of 400 TB as per below mentioned backup policies. a. Daily incremental backup – retained for 1 weeks in PBBA. b. Weekly full backup for all data types – retained for 1 month in PBBA. c. Monthly full backups – retained for 12 months in PBBA The proposed purpose built backup appliance should be quoted with adequate capacity considering 2% daily change rate for entire duration of 5 years warranty. Bidder must provide a sizing certificate showcasing this sizing consideration on the OEM's letter head with seal	The proposed backup appliance should have minimum 600 TB usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1, 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan modules. Source data is 600 TB The backup policy is defined into Page 51 - Backup Solution - Point 35 of the RFP The capacity has already been considered for the duration of 5 Yrs

3		Page 51 - Backup Solution - Point 35	Disk to Disk Backups for Medium- and Long-Term Retention. Purchaser wants to implement backup-to-disk solution using disk-based backup appliances to simplify operations and improve overall backup/restore performance. The solution should consist of Enterprise backup software and disk-based backup appliances. The backup appliance must provide global de-duplication of data across all devices / LUNs configured to drive backup storage efficiency. Backups will be retained on de-duplication enabled disk appliance based on following policy schedule: - Seven daily incremental backups for 1 week. Four weekly full backups for 1 month. Twelve monthly full backups for a period of 1year	Disk to Disk Backups for Medium- and Long-Term Retention. Purchaser wants to implement backup-to-disk solution using disk-based backup appliances to simplify operations and improve overall backup/restore performance. The solution should consist of Enterprise backup software and disk-based backup appliances. The backup appliance must provide global de-duplication of data across all devices / LUNs configured to drive backup storage efficiency. Proposed disk based backup appliance should support retention lock (WORM) feature which ensures that no data is deleted accidently and support for point-in-time copies of a LUN or volumes with minimal performance impact. Backups will be retained on de-duplication enabled disk appliance based on following policy schedule: - Seven daily incremental backups for 1 week. Four weekly full backups for 1 month. Twelve monthly full backups for a period of 1year	Disk to Disk Backups for Medium- and Long-Term Retention. Purchaser wants to implement backup-to-disk solution using disk-based backup appliances to simplify operations and improve overall backup/restore performance. The solution should consist of Enterprise backup software and disk-based backup appliances. The backup appliance must provide global de-duplication of data across all devices / LUNs configured to drive backup storage efficiency. Proposed disk based backup appliance should support retention lock (WORM) feature which ensures that no data is deleted accidently and support for point-in-time copies of a LUN or volumes with minimal performance impact. Backups will be retained on de-duplication enabled disk appliance based on following policy schedule: - Seven daily incremental backups for 1 week. Four weekly full backups for 1 month. Twelve monthly full backups for a period of 1year
4		Page 51 - Backup Solution - Point 36	The backup solution should support backup and restore of various sources such as Windows, Unix, Linux, MS SQL, My Sql, DB2,PostGreSQL, EDB, MongoDB, Oracle RAC, SAP HANA, Splunk, SAP S/4HANA, MS Exchange, MS Share Point, Active Directory, Oracle enterprise business suite, Hadoop, Windows & Linux File system, Gluster FS, NFS shares, CIFS shares, SMB shares, Macintosh File System, Virtualized platform (ESXi, Hyper-V, RHEV, AHV, Citrix Xen, Oracle VM), OpenShift, Kubernetes & Docker , Amazon S3, Amazon EFS, Azure blob, Azure File Storage, Azure Data Box, Oracle Cloud Object Storage, Red Hat Ceph Storage, Google Cloud Storage	The backup solution should support backup and restore of various sources such as Windows, Unix, Linux, MS SQL, My Sql, DB2,PostGreSQL, EDB, MongoDB, Oracle RAC, SAP HANA, Splunk, SAP S/4HANA, MS Exchange, MS Share Point, Active Directory, Oracle enterprise business suite, Hadoop, Windows & Linux File system, Gluster FS, NFS shares, CIFS shares, SMB shares, Macintosh File System, Virtualized platform (ESXi, Hyper-V, RHEV, AHV, Citrix Xen, Oracle VM), OpenShift, Kubernetes & Docker and workloads on major cloud platforms like Amazon, Azure, Google Cloud, Oracle cloud, etc.	The backup solution should support backup and restore of various sources such as Windows, Unix, Linux, MS SQL, My Sql, DB2,PostGreSQL, EDB, MongoDB, Oracle RAC, SAP HANA, Splunk, SAP S/4HANA, MS Exchange, MS Share Point, Active Directory, Oracle enterprise business suite, Hadoop, Windows & Linux File system, Gluster FS, NFS shares, CIFS shares, SMB shares, Macintosh File System, Virtualized platform (ESXi, Hyper-V, RHEV, AHV, Citrix Xen, Oracle VM), OpenShift, Kubernetes & Docker and workloads on major cloud platforms like Amazon, Azure, Google Cloud, Oracle cloud, etc.

5		Page 41- Hyper Converged Infrastructure 1, point 5	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, TDP 240 or better.	Would request to give the total cores required for the cluster as all the processor manufactureres does not have 64 cores per processor . Kinldy give the requirement in terms of total cores required so as to rightly size the solution. Kindly clarify what is meant by "or better" for TDP . Does better means that TDP value should be lesser than 240 or greater than 240.	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better
6		Page 43- Hyper Converged Infrastructure 2, point 3	In all hybrid nodes the proposed capacity drive shall have interface type as NVMe/SAS mixed use SSD. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per node	Would request to clarify this point as the RFP asks for Hybrid capacity in point 4	In all hybrid nodes the proposed capacity drive shall have interface type as 12G SAS. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per node
7		Page 43- Hyper Converged Infrastructure 2, point 6	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, TDP 240 or better.	Would request to give the total cores required for the cluster as all the processor manufactureres does not have 64 cores per processor . Kinldy give the requirement in terms of total cores required so as to rightly size the solution. Kindly clarify what is meant by "or better" for TDP . Does better means that TDP value should be lesser than 240 or greater than 240.	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, TDP 240 or better.
8		LEAF SWITCH OFC	Switch must have IPv6 phase 2 ready logo certification/IPV6 ready.	Vendor Specific Criteria . Please remove	Switch must have IPv6 phase 2 ready logo certification or IPV6 ready.
9		LEAF SWITCH OFC	Should support atleast 40 LAG groups and 16 ports per LAG or better.	Please Change to Should support atleast 32 LAG groups and 8 ports per LAG or better.	As per RFP , No Change
10		SPINE SWITCH	Switch should be chassis based with every payload slot providing wire speed throughput for the required number of interfaces. The switch should have control plane and/ or forwarding plane redundancy for maximum uptime	Should be read as CLOS Design with Fabric Controller to provide the High avaibaility in terms of Control and Forwarding plane	As per RFP , No Change
11		SPINE SWITCH	Switch should support total aggregate minimum 24 Tbsp. minimum of switching capacity	Switch should support total aggregate 3.2 Tbps (6.4 Tbps full duplex) switching capacity	As per RFP , No Change

12		SPINE SWITCH	Switch must have IPv6 phase 2 ready logo certification/IPV6 ready	Vendor Specific Criteria . Please remove	Switch must have IPv6 phase 2 ready logo certification or IPV6 ready.
13		SPINE SWITCH	Switch should support upgradation of the operating systems of the switch without disturbing the traffic flow. There should not be any impact on the performance in the event of the software upgrade/downgrade. Similarly, It should also support patching of selected process/processes only without impacting other running processes	Should be read as CLOS Design with Fabric Controller to provide the High avaibaility in terms of Control and Forwarding plane	As per RFP , No Change
14		SPINE SWITCH	Switch should support 300 LAG groups and 8 ports per LAG or better.	Please Change to Should support atleast 32 LAG groups and 8 ports per LAG or better.	As per RFP , No Change
15		SPINE SWITCH	Switch should support Layer 3 routing protocols like Static, IS-IS, OSPF, OSPF v3 from day 1 for the solution with minimum 32K or better IPv4 or IPv6 unicast routes and minimum 8K IPv4 or IPv6 multicast routes.	Please make IS-IS Support as Optional	As per RFP , No Change
16		SPINE SWITCH	Switch should support both IPv4 and IPv6 protocols like BGP, BGP+, IGMP v1, v2, v3, IGMP snooping, PIM SM/DM, PIM SSM, MPLS, IS-IS	Please make IS-IS Support as Optional	As per RFP , No Change
17		DCN FABRIC	Fabric must provide deeper visibility into the fabric in terms of latency and packet drop between VM to VM, VM to Physical server and vice versa, Leaf to another leaf etc. Should provide pervasive visibility of traffic across the entire data centre infrastructure, including servers and extending all the way to processes. Should provide complete visibility into application components, communications, and dependencies to enable implementation of a zero-trust model in the network.	Should be read as Solution should provide ongoing mechanism to find configuration deviation, security risk & non-compliances against segmentation rules by assessing current configuration, network security policies and generate alerts for any deviation to provide assurance. Fabric must provide deeper visibility into the fabric in terms of latency and packet drop between any two endpoints on the fabric	As per RFP , No Change
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19			Page 47 , point 3.1.1 says The solution should support multi-vendor virtual platforms such as VMWare, Hyper-V, RHeV, KVM, Citrix hypervisor, AHV. We Request to make it The solution should support one or more multi-vendor virtual platforms such as VMWare/ Hyper-V/ RHeV/ KVM/ Citrix	Some of the mentioned hypervisors are discontinued, some of them are declared to be discontinued from next year and some of them are non-licensed and non-enterprise grade, all of which will have supportability issues in longer run, and limited support is expected from the hypervisor OEMs.	The solution should support one or more multi-vendor virtual platforms such as VMWare/ Hyper-V/ RHeV/ KVM/ Citrix hypervisor/ AHV
20			Queries	Justification	
21			Structured cabling for entire Data Centre: SI / Bidder to consider Multimode OM4 fibre cable to provide backbone connectivity between Spine and leaf switches (100G) and between Core & access SAN switches. Connectivity between server/storage to leaf (10/25G) and access SAN switch will also be provisioned on multimode OM4 fibre cable. Data Centre structured cabling involves following activities:	These are the only installation guidelines and standards for structured cabling for the Data Centre solution, the detail technical specifications are not mentioned in the RFP. kindly share the technical detailed specifications.	Part of Another Non-IT RFP
22	1.4	Load Balancer and Controller + WAF	L4 Concurrent connections: 14M	L4 Concurrent connections: 90 M	L4 Concurrent connections: 90 M
23	1.5	Load Balancer and Controller + WAF	L4 Connections Per Second: 120,000	L4 Connections Per Second: 4 M	L4 Connections Per Second: 4 M
24	1.6	Load Balancer and Controller + WAF	L7 Requests Per Second: 2,40,000	L7 Requests Per Second: 10 M	L7 Requests Per Second: 10 M
25	1.8	Load Balancer and Controller + WAF	Should have minimum 8x10GE and 8x1GE interfaces.	Should have minimum 8x10GE	As per RFP , No Change
26	19	Load Balancer and Controller + WAF	The solution should support virtualisation, supporting up to 10 virtual instances and scalable up to 30.	The solution should support virtualisation, supporting up to 8 virtual instances and scalable up to 16. with 4TB HDD from Day 1.	As per RFP , No Change
27	41	Load Balancer and Controller + WAF	The solution should have abuse detection, tracking, Profiling and should support Abuse response and real time incident management.	Please Remove This clause for Wider participation	As per RFP , No Change

28	52	Load Balancer and Controller + WAF	The solution should be able to detect attempts to manipulate application behaviour through query parameter abuse. Solution must support behaviour analysis to detect and prevent day on	The solution should be able to detect attempts to manipulate application behaviour through different query parameter . Solution must support behaviour analysis to detect and prevent day on attacks	The solution should be able to detect attempts to manipulate application behaviour through different query parameter . Solution must support behaviour analysis to detect and prevent day on attacks
29	53	Load Balancer and Controller + WAF	The solution should maintain a profile of known application abusers and all of their malicious activity against the application	Please Remove This clause for Wider participation	As per RFP , No Change
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31	1	Datacentre Network Solution: (Spine-Leaf): Spine Switch	The core/spine layer switches should have hardware level redundancy (1+1) in terms of data plane and/or control plane. Issues with any of the plane should not impact the functioning of the switch. All the switches should be from same OEM	Please amend the clause as - The core/spine layer switches should have hardware /software level redundancy (1+1) in terms of data plane and/or control plane. Issues with any of the plane should not impact the functioning of the switch. The Switch should be given with Physical /Virtual Chassis form factor. All the switches should be from same OEM	As per RFP , No Change
32	2	Datacentre Network Solution: (Spine-Leaf): Spine Switch	Switch should be chassis based with every payload slot providing wire speed throughput for the required number of interfaces. The switch should have control plane and/ or forwarding plane redundancy for maximum uptime.	Please amend the clause as - Switch should be physical/virtual chassis based with every payload slot/Switch providing wire speed throughput for the required number of interfaces. The switch should have control plane and/ or forwarding plane redundancy for maximum uptime and support Physical/Virtual Chassis In-Service-Software-Upgrade.	As per RFP , No Change
33	3	Datacentre Network Solution: (Spine-Leaf): Spine Switch	The switch should have redundant CPUs working in active-active or active- standby mode. CPU fail over/change over should not disrupt/impact/degrade the functioning the switch	Please amend the clause as -The switch should have redundant CPUs/Supervisors working in active-active or active- standby mode. CPU/Supervisor fail over/change over should not disrupt/impact/degrade the functioning the switch. The Switch should support Physical / Virtual chassis 1+N redundant supervisor manager	As per RFP , No Change
34	4	Datacentre Network Solution: (Spine-Leaf): Spine Switch	The switch should not have any single point of failure like CPU, supervisor, switching fabric power supplies and fans etc. should have 1:1/N+1 level of redundancy	Please amend the clause as - The switch should not have any single point of failure like CPU/supervisor, switching fabric power supplies and fans etc. should have 1:1/N+1 level of redundancy	As per RFP , No Change
35	5	Datacentre Network Solution: (Spine-Leaf): Spine Switch	Switch should support in line hot insertion and removal of different parts like modules/power supplies/fan tray etc. This should not require rebooting of the switch or create disruption in the working/functionality of the switch	Not Applicable for Virtual Chassis. Please amend the clause as -"Switch should support in line hot insertion and removal of different parts like modules/power supplies/fan tray etc. This should not require rebooting of the switch or create disruption in the working/functionality of the switch for physical chassis. Not Applicable for Virtual Chassis.	As per RFP , No Change

36	6	Datacentre Network Solution: (Spine-Leaf): Spine	Switch should support minimum 512 VRF instanc	Please modify - Switch should support minimum 128 VRF instances	As per RFP , No Change
37	7	Datacentre Network Solution: (Spine-Leaf): Spine	Switch should support port mirroring feature for monitoring network traffic. SPAN, RSPAN, ERSPAN	Please amend the clause as -Switch should support port mirroring feature for monitoring network traffic.	As per RFP , No Change
38	8	Datacentre Network Solution: (Spine-Leaf): Spine	Should support tools like Python, Puppet, Rest-API for automation.	Please amend the clause as - Should support tools like Python/Puppet, Rest-API for automation.	Should support tools like Python/Puppet, Rest-API for automation.
39	9	Datacentre Network Solution: (Spine-Leaf): Leaf	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel, LAG etc.	Please amend the clause as - Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel or Link Aggregation, multi chassis	As per RFP , No Change
40	10	Datacentre Network Solution: (Spine-Leaf): Leaf	Switch should support minimum 1000 VRF instan	Please amend the clause as -Switch should support minimum 128 VRF instances	As per RFP , No Change
41	11	Datacentre Network Solution: (Spine-Leaf): Leaf Switch	Switch should support both IPv4 and IPv6 protocols like Static Routing, OSPF, IS-IS, BGP, BGP+, IGMP v1, v2, v3, IGMP snooping, PIM SM/DM, PIM SSM, MPLS, IS-IS etc. The switch should support 12,000 IPv4 and IPv6 routes entries in the	Please amend -Switch should support both IPv4 and IPv6 protocols like Static Routing, OSPF, IS-IS, BGP, BGP+, IGMP v1, v2, v3, IGMP snooping, PIM SM/DM, PIM-SSM, MPLS or equivalent, IS-IS etc. The switch should support 12,000 IPv4 and IPv6 routes entries in the routing table including multicast routes	Switch should support both IPv4 and IPv6 protocols like Static Routing, OSPF, IS-IS, BGP, BGP+, IGMP v1, v2, v3, IGMP snooping, PIM SM/DM, PIM-SSM, MPLS or equivalent, IS-IS etc. The switch should support 12,000 IPv4 and IPv6 routes entries in the routing table including multicast routes
42	12	Datacentre Network Solution: (Spine-Leaf): Leaf	Switch should support port mirroring feature for monitoring network traffic. SPAN, RSPAN, ERSPAN	Please amend the clause as -Switch should support port mirroring feature for monitoring network traffic.	As per RFP , No Change
43	13	Datacentre Network Solution: (Spine-Leaf): Leaf	Should support tools like Python, Puppet, Rest-API for automation.	Please amend the clause as - Should support tools like Python/Puppet, Rest-API for automation.	Should support tools like Python/Puppet, Rest-API for automation.
44	1	Hyper Converged Infrastructure Type 1	The proposed HCI solution should have all flash nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & considering storage optimization. The cluster must be configured with minimum replicas of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance	Request to mention a total useable space require with replica copies like RF2/RF3(for other OEMs) or FTT1/FTT2/RAID1(for Vmware), without considering any data savings features like deduplication, compression and Erasure Coding	The proposed HCI solution should have all flash nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & without considering storage optimization. The cluster must be configured with minimum 3 copies of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance
45	2	Hyper Converged Infrastructure Type 1	In all flash nodes the proposed cache drive shall be of NVMe/SAS read intensive SSD with high endurance and support for 4TBW per day or	Request to remove 4TBW	In all flash nodes the proposed cache drive should be of NVMe SSD with high endurance and support for 30DWPD per day or better

46	3	Hyper Converged Infrastructure Type 1	In all flash nodes the proposed capacity drive shall have interface type as NVMe/SAS mixed use SSD. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per	Request to mention a total useable space require with replica copies like RF2/RF3(for other OEMs) or FTT1/FTT2/RAID1(for Vmware), without considering any data savings features like deduplication, compression and Erasure Coding	In all flash nodes the proposed capacity drive shall have interface type as NVMe/12G SAS . The bidder/OEM can propose the capacity drive of any size which supports 1 DWDP and it should meet the minimum requirement of 40TB raw capacity per node
47	5	Hyper Converged Infrastructure Type 1	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, TDP 240 or	Request to allow Intel Processors to be quoted	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better
48	6	Hyper Converged Infrastructure Type 1	Each proposed HCI hardware should have RAM populated using 64 GB or higher DDR4 Module @ 2700 MHz or better. Each node should have total 1024GB of RAM or better	Request to increase the populated RAM from 1024 GB to 1536 GB	Each proposed HCI hardware should have RAM populated using 64 GB or higher DDR4 Module @ 3200 MHz or better. Each node should have total 1024GB of RAM or better
49	7	Hyper Converged Infrastructure Type 1	Each proposed HCI hardware 2* Quad port 10G SFP + /25G SFP+ network adaptor with 10G SFP + SR modules populated in all available ports	Request to Change 2* Quad port 10G SFP + /25G SFP+ network adaptor to 8 Port 10G SFP + /25G SFP+ per Node	as per RFP , No change
50	14	Hyper Converged Infrastructure Type 1	The proposed solution should support addition of compute/storage only nodes in the existing cluster	Request to add "addition of Storage only nodes in the existing cluster should not impact in procuring of additional Virtualization license"	as per RFP , No change
51	15	Hyper Converged Infrastructure Type 1	The proposed solution should support minimum 16 nodes in single cluster	Request to increase the supported nodes "The proposed solution should support minimum 96 nodes in single cluster"	The proposed solution should support minimum 16 nodes in single cluster
52	16	Hyper Converged Infrastructure Type 1	The proposed solution should support simultaneous two node failure in the cluster	As per clause number 1 of Hyper Converged Infrastructure Type 1 it is written **"The cluster must be configured with minimum replicas of data."** In this clause it is mentioned **Cluster should support simultaneous 2 Node Faliure**. This cluase is contradictory as this is possible only with FTT2/RAID 1 or RF3. So request to modify clause 1	The proposed HCI solution should have all flash nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & without considering storage optimization. The cluster must be configured with minimum 3 copies of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance
53	21	Hyper Converged Infrastructure Type 1	The proposed solution should be able to independently scales storage and compute as and when needed without any downtime.	Request to add "addition of Storage only nodes in the existing cluster should not impact in procuring of additional Virtualization license"	as per RFP , No change
54	24	Hyper Converged Infrastructure Type 1	The proposed solution should be a tested and validated solution to run MS SQL, PostgreSQL, MongoDB, OpenStack, Virtual machines, Windows Server OS, RHEL OS & Containers	Request to add "The proposed solution should have capability to Provision, Clone, Patch and create Time Machines for all leading databases like Oracle, MS-SQL, MySQL, PostgreSQL, MariaDB, MongoDB and SAP	as per RFP , No change

55	1	Hyper Converged Infrastructure Type 2	The proposed HCI solution should have all flash nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & considering storage optimization. The cluster must be configured with minimum replicas of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance	Request to mention a total useable space require with replica copies like RF2/RF3(for other OEMs) or FTT1/FTT2/RAID1(for Vmware), without considering any data savings features like deduplication, compression and Erasure Coding	The proposed HCI solution should have all hybrid nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & without considering storage optimization. The cluster must be configured with minimum 3 Copies of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance
56	2	Hyper Converged Infrastructure Type 2	In all flash nodes the proposed cache drive shall be of NVMe/SAS read intensive SSD with high endurance and support for 4TBW per day or	Request to remove 4TBW	In all flash nodes the proposed cache drive should be of NVMe SSD with high endurance and support for 30DWPD per day or better
57	3	Hyper Converged Infrastructure Type 2	In all flash nodes the proposed capacity drive shall have interface type as NVMe/SAS mixed use SSD. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per	Request to mention a total useable space require with replica copies like RF2/RF3(for other OEMs) or FTT1/FTT2/RAID1(for Vmware), without considering any data savings features like deduplication, compression and Erasure Coding	In hybrid nodes the proposed capacity drive shall have interface type as 12G SAS and 6G SATA. mixed use HDD. The bidder/OEM can propose the capacity drive of any size which supports 1 DWPD, and but it should meet the minimum requirement of 40TB Raw capacity per node
58	5	Hyper Converged Infrastructure Type 2	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, TDP 240 or	Request to allow Intel Processors to be quoted	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better.
59	6	Hyper Converged Infrastructure Type 2	Each proposed HCI hardware should have RAM populated using 64 GB or higher DDR4 Module @ 2700 MHz or better. Each node should have total 1024GB of RAM or better	Request to increase the populated RAM from 1024 GB to 1536 GB	Each proposed HCI hardware should have RAM populated using 64 GB or higher DDR4 Module @ 3200 MHz or better. Each node should have total 1024GB of RAM or better
60	7	Hyper Converged Infrastructure Type 2	Each proposed HCI hardware 2* Quad port 10G SFP + /25G SFP+ network adaptor with 10G SFP + SR modules populated in all available ports	Request to Change 2* Quad port 10G SFP + /25G SFP+ network adaptor to 8 Port 10G SFP + /25G SFP+ per Node	as per RFP , No change
61	14	Hyper Converged Infrastructure Type 2	The proposed solution should support addition of compute/storage only nodes in the existing cluster	Request to add "addition of Storage only nodes in the existing cluster should not impact in procuring of additional Virtualization license"	as per RFP , No change
62	15	Hyper Converged Infrastructure Type 2	The proposed solution should support minimum 16 nodes in single cluster	Request to increase the supported nodes "The proposed solution should support minimum 96 nodes in single cluster"	as per RFP , No change
63	16	Hyper Converged Infrastructure Type 2	The proposed solution should support simultaneous two node failure in the cluster	As per clause number 1 of Hyper Converged Infrastructure Type 1 it is written **"The cluster must be configured with minimum replicas of data."** In this clause it is mentioned **Cluster should support simultaneous 2 Node Faliure**. This cluase is contradictory as this is possible only with FTT2/RAID 1 or RF3. So request to modify clause 1	The proposed HCI solution should have all hybrid nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & without considering storage optimization. The cluster must be configured with minimum 3 copies of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance

64	21	Hyper Converged Infrastructure Type 2	The proposed solution should be able to independently scales storage and compute as and when needed without any downtime.	Request to add "addition of Storage only nodes in the existing cluster should not impact in procuring of additional Virtualization license"	as per RFP , No change
65	24	Hyper Converged Infrastructure Type 2	The proposed solution should be a tested and validated solution to run MS SQL, PostgreSQL, MongoDB, OpenStack, Virtual machines, Windows Server OS, RHEL OS & Containers	Request to add "The proposed solution should have capability to Provision, Clone, Patch and create Time Machines for all leading databases like Oracle, MS-SQL, MySQL, PostgreSQL, MariaDB, MongoDB and SAP	as per RFP , No change
66	1.4	Virtualisation - Hypervisor	Hypervisor should be able to boot from iSCSI, FCoE, and Fibre Channel SAN.	Request to remove this clause	as per RFP , No change
67	1.8	Virtualisation - Hypervisor	Hypervisor should have the ability to live migrate VM files from one storage array to another without any VM downtime. Support this migration from one storage protocol to another.	Request to remove this clause	as per RFP , No change
68	1.10	Virtualisation - Hypervisor	Hypervisor shall have High Availability capabilities for the virtual machines in the sense if in case one server fails all the Virtual machines running on that physical server shall be able to migrate to another physical server running same virtualization software. The feature should be independent of Operating System Clustering and should work with FC/ iSCSI SAN and NAS shared	Request to remove "The feature should be independent of Operating System Clustering and should work with FC/ iSCSI SAN and NAS shared storage"	as per RFP , No change
69	1.11	Virtualisation - Hypervisor	Hypervisor should have the ability to manage virtual switches at a cluster level that can span an entire cluster and is VM mobility aware. It should support features Net Flow and Port mirror and protocols Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol	Request to remove this clause	as per RFP , No change
70	3.3.2.4	Virtualisation - Templates Orchestration & Automation, Self-	Database services such as MS SQL, My SQL, EDB, PostgreSQL, Oracle RAC, MongoDB, etc.,	Request to add "The proposed solution should have capability to Provision, Clone, Patch and create Time Machines for all leading databases like Oracle, MS-SQL, MySQL, PostgreSQL, MariaDB, MongoDB and SAP	as per RFP , No change
71	32	Backup Solution	The proposed backup appliance should have minimum 500GB usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1, 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan	Request to change to "The proposed backup appliance should have minimum 500**TB** usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1**/** 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan modules.	The proposed backup appliance should have minimum **600TB** usable capacity in RIAD 6, 8*16/32G FC Ports with 8*16G FC SFP populated from day 1, 8*10/25G SFP+ Ports with 8*10G SFP+ SR populated from day 1, no single point of failure in terms of power supply, controller, fan modules.
72	12	60	Firewall should support Active-Active and Active Standby High Availability	Firewall should support Active-Active clustering and Active Standby High Availability.	as per RFP , No change

73	14	60	Firewall must support 10 virtual firewalls from day one & support licensed based scalability up to 100 virtual firewalls as & when required with	Firewall must support 10 virtual firewalls from day one.	as per RFP , No change
74	20	60	Firewalls should have at least 12*1G RJ45 ports, 12 *10G Fiber SFP+ ports, 4*40G QSFP+ ports	Firewalls should have at least 8*1G RJ45 ports, 8 *10G Fiber SFP+ ports, 4*40G QSFP+ ports	Firewalls should have at least 8*1G RJ45 ports, 8 *10G Fiber SFP+ ports, 4*40G QSFP+ ports
75	10	61	Firewall must support at least 4096 VLANS	Firewall must support at least 1024 VLANS.	Firewall must support at least 1024 VLANS.
76	12	61	Firewall should support Active-Active and Active Standby High Availability	Firewall should support Active-Active clustering and Active Standby High Availability.	as per RFP , No change
77	14	61	Firewall must support 10 virtual firewalls from day one & support licensed based scalability up to 100 virtual firewalls as & when required with	Firewall must support 10 virtual firewalls from day one.	as per RFP , No change
78	20	61	Firewalls should have at least 12*1G RJ45 ports, 12 *10G Fiber SFP+ ports, 4*40G QSFP+ ports	Firewalls should have at least 8 *10G Fiber SFP+ ports, 8*40G QSFP+ ports.	Firewalls should have at least 8*1G RJ45 ports, 8 *10G Fiber SFP+ ports, 8*40G QSFP+ ports
79	14	56	Spine switch shall have minimum 24 x 100G QSFP+ port per card. Each Spine switch shall be loaded with at least 2-line cards from Day-1.	Spine switch shall have minimum 36 x 40/100G QSFP+ port per card. Each Spine switch shall be loaded with at least 2-line cards from Day-1.	Spine switch shall have minimum 36 x 40/100G QSFP+ port per card. Each Spine switch shall be loaded with at least 2-line cards from Day-1.
80	22	56	Switch should support minimum 512 VRF	Switch should support minimum 1000 VRF instances	as per RFP , No change
81	28	56	Control plane denial-of-service (DoS) protection.	Control plane denial-of-service (DoS) protection. It should also have the support for IEEE 802.1AE MACSEC protocol from Day 1	as per RFP , No change
82	17	56	Switch should support at least 64K ARP entries and 100K MAC Addresses.	Switch should support at least 40K ARP entries and 80K MAC Addresses. The line card proposed should have minimum 150MB Packet Buffer per LC	as per RFP , No change
83	NA	NA	New Clause	Switch should support : • Flow path trace (ingress to egress switch) • Latency and packet drop	Accepted
84	NA	NA	New Clause	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 3 years	Accepted
85	7	57	Switch should support minimum 1.4 Tbsp. of switching capacity. Switch should support minimum 96,000 no. of MAC addresses	Switch should support minimum 3.6 Tbps. of switching capacity. Switch should support minimum 96,000 no. of MAC addresses.The Switch should support intelligent buffer management with a minimum buffer of 40MB.	as per RFP , No change

86	17	58	Support for broadcast, multicast, and unknown unicast storm control to prevent degradation of switch performance from storm due to network attacks and vulnerabilities	Support for broadcast, multicast, and unknown unicast storm control to prevent degradation of switch performance from storm due to network attacks and vulnerabilities. Should also support IEEE 802.1AE (MACSEC) protocol on the hardware for traffic	as per RFP , No change
87	NA	NA	Switch should support Jumbo Frames up to 9K Bytes	Switch should support Switch should support Jumbo Frames up to 9K Bytes and also should support : • Flow path trace (ingress to egress switch) • Latency and packet drop	Accepted
88	NA	NA	New Clause	The proposed switches should be part of Gartner Leader Quadrant for DC Networking for last 3 years	Accepted
89	16	59	Fabric must support for 500 VRF/Private network without any additional component or upgrade or design change	All switches & proposed Fabric must support for 1000 VRF/Private network without any additional component upgrade or design change	All switches & proposed Fabric must support for 1000 VRF/Private network without any additional component upgrade or design change
90	NA	NA	New Clause	Fabric /SDN controller should provide micro-segmentation rules and policies for workloads connected to DC fabric for east-west traffic . It must support segmentation of VM based attributes like hostname, OS, VM Tags, FQDN, Microsoft AD based	Not Accepted
91	NA	NA	New Clause	Fabric must integrate with different virtual machine manager viz. Vmware vCenter, Microsoft Hyper-V with System Center, Kubernetes, Redhat Openshift and manage virtualise networking from the single pane of Glass - Fabric Controller/SDN Controller for visibility of VM/Container at the controller level	Accepted
92	1.8	68	Router should have minimum 16 x 1G Copper based, 18x 1/10GE Fiber based ports spread across multiple line cards should be provided. Should be scalable to support up to 40Gig or better ports with maximum distance of 10KM and 40KM without any additional	Router should have minimum 16 x 1G Copper based, 16x 1/10GE Fiber based ports spread across multiple line cards should be provided. Should be scalable to support up to 40Gig or better ports with maximum distance of 10KM and 40KM without any additional regenerators	Router should have minimum 16 x 1G Copper based, 16x 1/10GE Fiber based ports spread across multiple line cards should be provided. Should be scalable to support up to 40Gig or better ports with maximum distance of 10KM and 40KM without any additional regenerators
93	1.11	68	Router should support minimum 100 Gbps full duplex throughput and 1.4 Bpps of performance for IPv4 and IPv6.	Router should support minimum 500 Gbps full duplex throughput and .4 Bpps of performance for IPv4 and IPv6.	as per RFP , No change
94	1.12	68	Router should support RIB capacity of 4 Million IPv4, IPv6, 4K L3VPN VRF and 4K VPLS routing-instances and MAC scaling of 1 million MAC.	Router should support RIB capacity of 2 Million (IPv4 +IPv6), 2K L3VPN VRF and 4K VPLS routing-instances and MAC scaling of .5 million MAC.	as per RFP , No change
95	1.27	69	Time based & Dynamic ACLs for controlled forwarding based on time of day for offices	Time based & Dynamic ACLs or static ACLs for controlled forwarding	as per RFP , No change

96	1.34	69	Router should be minimum common criteria EAL3/NDPP/NDcPP certified.	Request to remove	as per RFP , No change
97	1	Hyper Converged Infrastructure Type 1-Page 41	The proposed HCI solution should have all flash nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & considering storage optimization. The cluster must be configured with minimum replicas of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the	The proposed HCI solution should be provided with 200TB usable capacity using Flash drives (excluding cache disks) & not considering any storage optimization techniques (De-duplication, compression, erasure coding etc.). The cluster must be configured with minimum RF3 (3 copies of data) for a 2 Node failure protection. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance	The proposed HCI solution should have all flash nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & without considering storage optimization. The cluster must be configured with minimum 3 copies of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance
98	2 2	Hyper Converged Infrastructure Type 1-Page 41 Hyper Converged Infrastructure Type 2-Page 43	In all flash nodes the proposed cache drive shall be of NVMe/SAS read intensive SSD with high endurance and support for 4TBW per day or better	The proposed cache drive shall be of NVMe/SAS read intensive SSD with high endurance 3 DWPD or better	In all flash nodes the proposed cache drive should be of NVMe SSD with high endurance and support for 30DWPD per day or better
99	3	Hyper Converged Infrastructure Type 1-Page 41	In all flash nodes the proposed capacity drive shall have interface type as NVMe/SAS mixed use SSD. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per node	The proposed capacity drive shall have interface type as NVMe/SATA SSD. The bidder/OEM can propose the capacity drive of any size but it should meet the minimum requirement of 200TB usable capacity across 20 Node cluster.	In all hybrid nodes the proposed capacity drive shall have interface type as 12G SAS. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per node
100	5 6	Hyper Converged Infrastructure Type 1-Page 41 Hyper Converged Infrastructure Type 2-Page 43	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, TDP 240 or better.	Each proposed HCI hardware should have minimum 2 processors, each processor should have 32 Cores with base clock speed 2.2 GHz or better, L3 cache 48 MB or better, TDP 185W or higher.	Each proposed HCI hardware should have minimum 2 processors, each processor should have 64 Cores with base clock speed 2.4 GHz or better, L3 cache 192 MB or better, .
101	7 8	Hyper Converged Infrastructure Type 1-Page 41 Hyper Converged Infrastructure Type 2-Page 43	Each proposed HCI hardware 2* Quad port 10G SFP + /25G SFP+ network adaptor with 10G SFP + SR modules populated in all available ports	Each proposed HCI Node should provide 2* Dual port 10G SFP + /25G SFP+ network adaptor with 25G SFP + SR modules populated in all available ports	as per RFP , No change

102	11 11	Hyper Converged Infrastructure Type 1-Page 41 Hyper Converged Infrastructure Type 2-Page 43	The proposed solution should leverage any of industry standard hypervisor like ESXi/ Hyper-V/ KVM/RHEV/AHV	The proposed solution should leverage any of industry standard and general purpose hypervisor like ESXi/ Hyper-V/ KVM/RHEV	as per RFP , No change
103	16 16	Hyper Converged Infrastructure Type 1-Page 42 Hyper Converged Infrastructure Type 2-Page 44	The proposed solution should support simultaneous two node failure in the cluster	The proposed solution should provide simultaneous two node failure in the cluster	as per RFP , No change
104	17 17	Hyper Converged Infrastructure Type 1-Page 42 Hyper Converged Infrastructure Type 2-Page 44	The proposed solution should be able to connect to external 3rd party SAN & NAS storage into the HCI cluster for capacity expansion	The proposed solution should be able to connect to external 3rd party SAN (FC) & NAS (iSCSI/NFS/CIFS) storage into the HCI cluster for capacity expansion and minimum 50G of Bandwidth should be factored into the solution from day1.	as per RFP , No change
105	21 21	Hyper Converged Infrastructure Type 1-Page 42 Hyper Converged Infrastructure Type 2-Page 44	The proposed solution should be able to independently scales storage and compute as and when needed without any downtime.	The proposed solution should be able to independently scales storage and compute as and when needed without any downtime. HCI solution should also be able to provide compute only Nodes which should be able to work independently in the cluster without incurring any SDS license cost. Any upgrade required w.r.t increasing Memory & Storage drives in the proposed server Node should not incurr any additional licenses or should be provided with the solution from day1.	as per RFP , No change
106	22 22	Hyper Converged Infrastructure Type 1-Page 42 Hyper Converged Infrastructure Type 2-Page 44	The proposed solution should support native File, Block, Object Storage, Data at rest encryption and Data in transit encryption	The proposed solution should support File, block , Data at rest encryption and Data in transit encryption.	The proposed solution should support File, Block, Object Storage, Data at rest encryption and Data in transit encryption

107	27 27	Hyper Converged Infrastructure Type 1-Page 42 Hyper Converged Infrastructure Type 2-Page 44	The proposed HCI software solution OEM should be mentioned in the latest Gartner Magic Quadrant for HCI solution.	The proposed solution OEM should be mentioned in the available Gartner Magic Quadrant for HCI solution, x86 Hypervisor, Datacenter Networking & Module server in their any available last 3 years report.	as per RFP , No change
108	31 30	Hyper Converged Infrastructure Type 1-Page 42 Hyper Converged Infrastructure Type 2-Page 44	All the required licenses for the hypervisor, HCI software, HCI Management software should be supplied as part of the solution	All the required licenses for the hypervisor, HCI software, HCI Management software should be supplied as part of the solution along with Integrated networking switch to offer high east-west traffic. Each switch should be provided with 6*25G & 6*100G Ethernet uplinks to connect with the external Network Switches.	as per RFP , No change
109	1	Hyper Converged Infrastructure Type 2-Page 43	The proposed HCI solution should have all hybrid nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) without considering any storage optimization. The cluster must be configured with 2 replicas of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best	The proposed HCI solution should be provided with 200TB usable capacity using Hybrid drives (excluding cache disks) & not considering any storage optimization techniques (De-duplication, compression, erasure coding etc.). The cluster must be configured with minimum RF3 (3 copies of data) for a 2 Node failure protection. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance. Two clusters of 20 Nodes each should be provided for this type of HCI cluster.	The proposed HCI solution should have all hybrid nodes, each proposed node should have 40TB as raw capacity (excluding cache disks) and minimum 10TB as usable capacity (excluding cache disks) & without considering storage optimization. The cluster must be configured with minimum 3 copies of data. The bidder needs to ensure the OEM recommended cache disk to capacity disk ratio for the best performance
110	3	Hyper Converged Infrastructure Type 2-Page 43	In all hybrid nodes the proposed capacity drive shall have interface type as NVMe/SAS mixed use SSD. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per node	Request to remove this point	In all hybrid nodes the proposed capacity drive shall have interface type as 12G SAS. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB raw capacity per node
111	4	Hyper Converged Infrastructure Type 2-Page 43	In hybrid nodes the proposed capacity drive shall have interface type as 12G SAS mixed use HDD. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 40TB Raw capacity	The proposed capacity drive shall have interface type as 12G SAS 10K HDD / SSD or a mix of both. The bidder/OEM can propose the capacity drive of any size, but it should meet the minimum requirement of 200TB usable capacity per cluster.	as per RFP , No change
112	15	Hyper Converged Infrastructure Type 2-Page 44	The proposed solution should support minimum 16 nodes in single cluster	The proposed solution should provide minimum 20 nodes in a single cluster	as per RFP , No change

113	3.1.1	Cloud Solution- Page 47	The solution should support multi-vendor virtual platforms such as VMWare, Hyper-V, RHeV, KVM, Citrix hypervisor, AHV	The solution should support multi-vendor virtual platforms such as VMWare, Hyper-V, RHeV, KVM, Citrix hypervisor	The solution should support multi-vendor virtual platforms such as VMWare/ Hyper-V/ RHeV/ KVM/ Citrix hypervisor/ AHV.
114	Table 1: Pre-Qualification compliance	The OEM quoted by the bidder should have at leastone manufacturing unit registered in India. The Products offered by the OEM	As most of the OEM's of high end equipments like servers have manufacturing units across the globe, request to remove the clause "The OEM quoted by the bidder should have at least one manufacturing unit registered in India.". As HCI software is one of the most critical components, it is suggested to include :The HCI Software OEM should have at least one Centre of		as per RFP , No change
115	11	Table 1: Pre-Qualification compliance	The bidder should have successfully executed build of at least 2 Data Centers comprising of 1000 Sq. ft. or more area. Out of these two Data Centers, The bidder should successfully have setup and has maintained, managed one Data Centre having more than 1000 sq. ft. which is primarily consisting of Data Centre Network, Campus Network, compute network, HCI, hypervisor, cloud Mgmt., EMS, Network Security, content security, Load balancing etc. Note: A. Bidder ‘s in house Data Centers shall not be considered. Bidders who have built their own Internet Data Centre (DC) for commercial use will be considered.	The bidder should have successfully executed at least 2 projects comprising of Data Centers components with project value more than or equal to 80% of the Total Contract value. The project must primarily consist of at least 3 of the below mentioned components Data Centre Network, Campus Network, compute network, HCI, hypervisor, cloud Mgmt., EMS, Network Security, content security, Load balancing etc. Note: A. Bidder ‘s in house Data Centers shall not be considered. Bidders who have built their own Internet Data Centre (DC) for commercial use will be considered.	the Bidder should havesuccessfully executed built of **atleast 2 Data Center with the value of Data center projects , defined into the pre-qualification criteria of the RFP .** The bidder should successfully have setup and has maintained, managed one Data Centre having value of Data center projects , defined into the pre-qualification criteria of the RFP .which is primarily consisting **of 6 or more 0ut of 10 services : (the points in bold are mandatory)** **1.Data Centre Network** 2.Campus Network **3. compute network** **4. HCI** **5. hypervisor** **6. cloud Mgmt** 7. EMS **8. Network Security** 9.content security 10. Load balancing
116			*Bidder should have successfully completed implementation of similar projects in Data Centres in India, during the last five years ending on 31 March 2022.	Kindly Clarify if all the line items mentioned in scope of project should be mandatorily part of the project reference to be submitted or if a majority of line items are covered in project reference than it will be considered valid	

	6	Table 1: Pre-Qualification compliance	i. Three completed projects costing not less than Rs. 20 Crores each or ii. Two completed projects costing not less than Rs. 30 Crores each or iii. One completed project costing not less than Rs. 40 Crores *This criteria is only applicable for pre-qualification, but the bidders are encouraged to submit more projects than the pre-qualification criteria to get maximum marks for technical bid marking as defined into Technical Qualification of the RFP (stage 2 Technical qualifications section no 2)		refer to response 122 Table-1 Pre Qualification Compliance Sr. No. 11
117	6	Key Events and Table – 1 Key Events and Dates	Last date (deadline) for submission of bids-by mail (pdns@nixi.in) * 9th Dec (11 AM)	Request to please extend the submission by 2 weeks to 23rd Dec (11 AM)	as per RFP/ corrigendums , No change
118	5	NIXI-CSC Requirement & Key Events and Dates	Bid validity for 80 days from last date of submission under NIXI-CSC Requirement And Bid Validity for 60 days from the last date (deadline) for submission of proposals	Request you to please clarify if the bid validity is 80 days or 60 days.	bid validity 60 days
119	b)	DELIVERY, INSTALLATION COMMISSIONING OF EQUIPMENT	The bidder must ensure delivery, installation and commissioning of the components and relevant software and System Integration of all Components within 12 weeks.	The bidder must ensure delivery, installation and commissioning of the components and relevant software and System Integration of all Components within 24 weeks.	as per RFP/ corrigendums , No change

120	Table-1 Pre Qualification Compliance Sr. No. 6	Pre Qualification Compliance	*Bidder should have successfully completed implementation of similar projects in Data Centres in India, during the last five years ending on 31 March 2022. i. Three completed projects costing not less than Rs. 20 Crores each or ii. Two completed projects costing not less than Rs. 30 Crores each or iii. One completed project costing not less than Rs. 40 Crores *This criteria is only applicable for pre- qualification, but the bidders are encouraged to submit more projects than the pre-qualification criteria to get maximum marks for technical bid marking as defined into Technical Qualification of the RFP (stage 2 Technical qualifications section no 2)	Kindly amend this clause as under : Bidder should have successfully completed implementation of similar projects in **Data Centres in India and Abroad**, during the last five years ending on 31 March 2022. i. Three completed projects costing not less than Rs. 20 Crores each or ii. Two completed projects costing not less than Rs. 30 Crores each or iii. One completed project costing not less than Rs. 40 Crores *This criteria is only applicable for pre-qualification, but the bidders are encouraged to submit more projects than the pre-qualification criteria to get maximum marks for technical bid marking as defined into Technical Qualification of the RFP (stage 2 Technical qualifications section no 2)	as per RFP/ corrigendums , No change
121	Stage 2 :Technical Evaluation : Sr. No. 2	Stage 2 :Technical Evaluation	Past Experience/Projects Bidder should have successfully completed implementation of similar projects in Data Centres in India, during the last five years ending on 31 March 2022. i. Total Value of projects more than as 120 crore as per the defined criteria of the projects into PQ (pre- Qualification criteria defined in stage 1: pre-qualification section 6) ii. Total Value of projects more than as 80 crore and less than 120 crores as per the defined criteria of the projects into PQ (pre-Qualification criteria defined in stage 1: pre- qualification section 6) iii. Total Value of projects less than 80 crores as per the defined criteria of the projects into PQ (pre- Qualification criteria defined in stage 1: pre	National & international experience of projects including building and Operation & maintenance of Data Center will also be considered is our understanding correct Please clarify.	as per RFP/ corrigendums , No change

122	Table-1 Pre Qualification Compliance Sr. No. 11	Pre Qualification Compliance	The bidder should have successfully executed build of at least 2 Data Centers comprising of 1000 Sq. ft. or more area. Out of these two Data Centers, The bidder should successfully have setup and has maintained, managed one Data Centre having more than 1000 sq. ft. which is primarily consisting of Data Centre Network, Campus Network, compute network, HCI, hypervisor, cloud Mgmt., EMS, Network Security, content security, Load balancing etc. Note: A. Bidder 's in house Data Centers shall not be considered. Bidders who have built their own Internet Data Centre (DC) for commercial use will be considered.	As per our understanding Bidder should have executed built of **2 Data Center with cumilative area of two data centers should be 1000 sq. ft.** Please clarify is our understanding is correct. Also Kindly amend this clause as under : The bidder should have successfully executed build of at least 2 Data Centers comprising of 1000 Sq. ft. or more area. Out of these two Data Centers, The bidder should successfully have setup and has maintained, managed one Data Centre having more than 1000 sq. ft. which is primarily consisting of more **than 7 0ut of 10 services** : **1.Data Centre Network** 2.Campus Network 3. compute network **4. HCI** **5. hypervisor** **6. cloud Mgmt** 7. EMS **8. Network Security** **9.content security** **10. Load balancing**	the Bidder should havesuccessfully executed built of atleast **2 Data Center with the value of Data center projects , defined into the pre-qualification criteria of the RFP .** The bidder should successfully have setup and has maintained, managed one Data Centre having value of Data center projects , defined into the pre-qualification criteria of the RFP .which is primarily consisting of 6 **or more 0ut of 10 services** : (the points in bold are mandatory) **1.Data Centre Network** 2.Campus Network **3. compute network** **4. HCI** **5. hypervisor** **6. cloud Mgmt** 7. EMS **8. Network Security** 9.content security 10. Load balancing
123	Performance Bank Guarantee	EMD & Performace Bank Guarantee	Within fifteen (15) working days from the date of issuance of PO the successful Bidder shall at his own expense submit unconditional and irrevocable Performance bank guarantee (PBG) of 5% of the contract value to the NIXI-CSC. The PBG shall be from a Nationalized Bank or a Scheduled Commercial Bank in the format prescribed via FDR/Online, for the due performance and fulfilment of the contract by the bidder.	As per standard practice PBG is at 3% request you to please consider our request for reducing PBG.	as per RFP , No change

124	Mileston e	Payment Milestone		Please change Payment Terams as under :	as per RFP , No change

S.no.	Milestone	% Of amount
1)	Project plan, Designing and approval as per SOW	10%
2)	On delivery of products	40%
3)	On installing and commissioning of the BOQ material	20%
4)	On Acceptance & Handover (UAT, KT, As built, SOP, device credential OEM hardware warranty certificate)	10%
5)	Validation of Complete implementation which is to be scheduled at least 1 Year post Milestone 4 completion	20%

S.no.	Milestone	% Of amount
1)	Project plan, Designing and approval as per SOW	10%
2)	On delivery of products	50%
3)	On installing and commissioning of the BOQ material	20%
4)	On Acceptance & Handover (UAT, KT, As built, SOP, device credential OEM hardware warranty certificate)	10%
5)	Validation of Complete implementation which is to be scheduled at least 1 Year post Milestone 4 completion	10%