

**Pre Bid Queries for "RC for SITC of Server, Storage, Tape Library & Red Hat Licenses " against Tender Enquiry No. TPCODL/CCG/23-24/028**

Sl. No.	Page No.	Detailed Reference to Tender Document. Please specify Document No / Clause No	Description as per Bid Document	Remarks - Query / Clarification	TP Odisha Discom Response
1	5		Pre-Bid Meeting	We are requesting to schedule a pre-bid meeting to discuss all the scopes in detail as there is a lot of complexity in the scope of work.	Pre-Bid Meeting was held on 24.08.23
2	6	1.7: Qualification Criteria	The bidder should have executed similar SITC works for cumulative order value of Rs. 10 Cr. for a single order or Rs. 5 Cr. for 2 orders each or for Rs. 3.5 Crore for 3 orders each during last 5 years. Copy of work order / completion certificate to be submitted in this regard.	Request you to kindly change it to Cumulative order values of 6.8 cr as other Tatapower entity are doing the same , so that we can eligible to participate .	Relevant provision mentioned in the the Tender document shall prevails
3	7	1.7 Qualification Criteria	Bidder should be a company registered in India with an office in Bhubaneswar/Cuttack or any local tie up with Firm presence in Bhubaneswar/Cuttack. Bidder should submit the undertaking and details of address in this regard.	We request you to kindly remove the local tie up clause and kindly mention that atleast 15 manpower should be present on the bidders payroll of the state of Odisha.	The Clause is amended as "Bidder should be a company registered in India with an office or local tie up in Odisha with atleast four service personel on payroll to handle these products and should have appropriate OEM certification. Bidder should submit the undertaking and relevant details in this regard. In case of non-compliance, bidder shall submit undertaking to comply within 3 months of award of Contract."
4	7	2.0 Evaluation Criteria	The bids will be evaluated commercially on an individual item basis (all-inclusive lowest cost at item level) for the complete tender as calculated in Schedule of Items [Annexure I].	As this is a bundled project, We request you to kindly conduct Reverse Auction (RA) on overall bid value for getting more clarity of the bid.	The Clause is amended as "The bids will be evaluated Commercially on Lot wise". ( All inclusive Lowest Cost at Lot Level) 1st Lot: SITC of Servers 2nd Lot: SITC of Storage Array & San Switch 3rd Lot: SITC of Backup Device (Tape Library) 4th Lot: Red Hat Licenses
5	7	2.0 Evaluation Criteria	TPCODL/TPNODL/TPWODL/TPSODL however, reserves right to split the order line item wise and/or quantity wise among more than one Bidder. Hence all bidders are advised to quote their most competitive rates against each line item.	We request you to kindly define percentage for splitting the tender value between L1 & L2 bidders, So that the tender will be more transparent ( For example : 60 % L1 , 40 % to L2 or 70 % and 30 % bid value.	TPCODL/TPNODL/TPWODL/TPSODL reserves the right to split the order Lot Wise. Rate Contract Quantity in each lot will not be splitted.
6	7	1.7 Qualificaion Criteria	The bidder should have executed similar SITC works for cumulative order value of Rs. 10 Cr. for a single order or Rs.5 Cr. for 2 orders each or for Rs.3.5 Crore for 3 orders each during last 5 Years. Copy of work order/ completion certificate to be submiited in this regard.	Bidder is working with Tata power , last 20 years, As a long term releation we request you kindly amend this clause as " The bidder should have executed cumulative work for communication/network or similar work of Rs.10 Cr. In last five year" This request is for Consideration, due to seamless project executed in all Dishcoms , last 20 years seamlessly and having In depth knowhow of the Client sites as well Project Implementation	Relevant provision mentioned in the the Tender document shall prevails

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7	7	1.7 Qualificaion Criteria	The bidder should have executed similar SITC works for cumulative order value of Rs. 10 Cr. for a single order or Rs.5 Cr. for 2 orders each or for Rs.3.5 Crore for 3 orders each during last 5 Years. Copy of work order/ completion certificate to be submiited in this regard.	As an MSME Clause, "the bidder shall have 20% of existing criteria for financial Turnover. We request you kindly apply the same on executed similar work for communication. Consideration as Annexure VII of MSME .	Relevant provision mentioned in the the Tender document shall prevails
8	7	1.7 Qualificaion Criteria	The bidder should have executed similar SITC works for cumulative order value of Rs. 10 Cr. for a single order or Rs.5 Cr. for 2 orders each or for Rs.3.5 Crore for 3 orders each during last 5 Years. Copy of work order/ completion certificate to be submiited in this regard.	Kindly amend this as "The bidder / OEM should have executed similar SITC works for cumulative order value of Rs. 10 Cr. for a single order or Rs.5 Cr. for 2 orders each or for Rs.3.5 Crore for 3 orders each during last 5 Years. Copy of work order/ completion certificate to be submiited in this regard."	Relevant provision mentioned in the the Tender document shall prevails
9	13	7.2 Delivery Terms	Completion period: The devices should be delivered within 8 to 12 weeks from order issuance date and installation of the same should be done in 1 week from the date of intimation. (Client will intimate date to bidder for installation of equipment's).	We request you to kindly make it to 14 to 16 weeks delivery and 2 to 3 weeks for installation.	<i>This clause is to be read as follows. "The devices should be delivered within 10 weeks from order issuance date and installation of the same should be done in 2 weeks from the date of intimation. (Client will intimate date to bidder for installation of equipment's)"</i>
10	13	7.2 Delivery Terms	Completion period: The devices should be delivered within 8 to 12 weeks from order issuance date and installation of the same should be done in 1 week from the date of intimation.	Kindly amend this clause as " The devices should be delivered with in 12-14 weeks from order issuance date and installation of the same should be done in 1 week from the date of intimation.  Due to globally Shortage of Components device Manufacuring is Impact Badly. We request you to change this clause.	<i>This clause is to be read as follows. "The devices should be delivered within 10 weeks from order issuance date and installation of the same should be done in 2 weeks from the date of intimation. (Client will intimate date to bidder for installation of equipment's)"</i>
11	13	7.2 Delivery Terms	Completion period: The devices should be delivered within 8 to 12 weeks from order issuance date and installation of the same should be done in 1 week from the date of intimation.	Requesting to increase implementation timeline to 4 to 6 weeks	<i>This clause is to be read as follows. "The devices should be delivered within 10 weeks from order issuance date and installation of the same should be done in 2 weeks from the date of intimation. (Client will intimate date to bidder for installation of equipment's)"</i>
12	13	7.2 Delivery Terms	(Client will intimate date to bidder for installation of equipment's).	Request you to confirm at all the locations, the site is ready for installation i.e. power source availability, rack space availability, network availability etc. with the proper cooling	<i>This is to clarify that intimation for installation to the selected bidder shall be done upon complete site readiness i.e. power source availability, rack space availability, network availability etc. with the proper cooling.</i>

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13	13	7.2 Delivery Terms	(Client will intimate date to bidder for installation of equipment's).	As in RFP it is mentioned the storage may connected with existing infra therefore need to know any data migration is required or not from existing storage to new storage.	"Storage should have replication and Migration" means storage should be able to migrate data from existing storage and in future data from the new storage should also be migratable to any other storage which must be enabled from Day-1. Further, replication of data from existing storage to the storage to be proposed by seleted bidder and vice-versa must be enabled from Day-1. Such enablement should not have separate cost implication to the owner within the Warranty period irrespective of data volume to be replicated / migrated.
14	13	7.2 Delivery Terms	The devices should be delivered within 8 to 12 weeks from order issuance date.	We request Tata power to extended the time line from 12 weeks to 16 weeks.	<i>This clause is to be read as follows.</i> "The devices should be delivered within 10 weeks from order issuance date and installation of the same should be done in 2 weeks from the date of intimation. (Client will intimate date to bidder for installation of equipment's)"
15	13	7.2 Delivery Terms	Installation of the same should be done in 1 week from the date of intimation.	We request Tata power to extended this time line from 1 week to 3 weeks.	<i>This clause is to be read as follows.</i> "The devices should be delivered within 10 weeks from order issuance date and installation of the same should be done in 2 weeks from the date of intimation. (Client will intimate date to bidder for installation of equipment's)"
16	13	Payment Terms	Payment shall be released, within 45 days of submission of error free Invoice duly certified by EIC/Site in charge.	Kindly amend as " 80% Payment shall be release within within 45days against delivery and rest 20% will be released after complete installation.	Tender Clause amended as : <b>For Hardware:</b> Milestone-1: 40% payment of the respective Release Order value will be released after Delivery of complete material and mounting on the rack at Site. Milestone-2: Rest 60% of the payment will be released after successful installation , commissioning and duly certified by EIC. <b>For Licenses:</b> Milestone-3 100% payment will be released after Delivery & duly certified by EIC. Payment shall be released, within 45 days of submission of error free Invoice duly certified by EIC/Site in charge.

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17	15	Annexure I	Red Hat Open Shift Platform Plus (Bare Metal Node), Red Hat Ansible Automation Platform, Red Hat Enterprise Linux for Virtual Data centers Management, Premium with Standard	In Software BoQ , RHEL software stack in mentioned but , scope of work in NOT metioned for these s/w.	<i>This to clarify that Supply and basic installation along with standard configuration of software.is required along with support as mentioned in the specification. Premium support is required for Virtual DataCenter and Linux Server and HA whereas standard support is required for OpenShift and Ansible. Further, training and OEM certification should be done for minumum 4 employees of the owner for each of these products</i>
18	16	Annexure I	Services shall be delivered to TPCODL/TPWODL/TPNODL/TPSODL office locations in Odisha (location will be shared while issuance of RO)	Do we need to deliver all the items to multiple different places & install there? Will the numbe of location will be 4 or more? Kindly provide the names of the probable locations	This to clarify that the implementation shall primarily be carried out at DR (Burla) and DC(Bhubaneswar) locations. Exact details shall be communicated during placement of Release Order (RO).
19	17	ANNEXURE II Scope of Work & Service Level Agreement	c) Mounting of the appliance in the rack.	We assume that power connectivity and rack space will be provided by the End Customer.	This clause is to be read as follows. "Mounting of the appliance in the rack shall be done by bidder. Power source and rack space shall be arranged by the owner"
20	17	Annexure-II, Clause No: 2.c	c) Uptime guarantee: Uptime of the equipment's will be 99 %. This will be calculated on monthly basis.	Requesting to change the uptime in quarterly basis.	Tender clause stands. This is to clarify that the SLA shall be calculated on quaterly basis for each equipment.
21	17	Annexure-II ,Clause No: 3.d	d) Installing the related hardware/software components and terminating the cables on network.	Do we need to configure network infra also? Need clarity.	<i>This clause is to be read as follows. "Installing the related hardware/software components and terminating the cables on the owner supplied network device" Please note that network side configuration shall be done by the owner.</i>
22	17	Annexure-II ,Clause No: 3.f	f) The proposed SAN should be combine with existing SAN storage solutions as datastore and volumes with Microsoft or VMware or linux.	Do we need to chage some configuration in existing storage also? Or existing IT team will do that?	This to clarify that configuration chage in existing storage (if rerquird) shall be handled by the existing IT team of the owner.
23	17	Annexure II - Point 2	The warranty/support period will start from date of completion of installation of device i.e. from the date on which installation report is signed by TPCODL/TPWODL/TPNODL/TPSODL in TPCODL/TPWODL/TPNODL/TPSODL format.	We request Tata power to consider the warranty from date of delivery not from installation.	Tender clause stands.
24	18	ANNEXURE II Scope of Work & Service Level Agreement	g) The proposed SAN should be integrated with existing SAN switch.	Please confirm , SFP and license upgradation for the existing SAN Switch ( Unused 48 Port) will be provided by the End customer	<i>This to clarify that if required, SFP and license upgradation for the existing SAN Switches shall be handled by the owner.</i>
25	18	ANNEXURE II Scope of Work & Service Level Agreement	l) OEM Team/Engineer should do the implementation services at site	We request you kindly allow us to do survey atleast at 2 differenet locations before the tender submission due.	<i>This to clarify that the implementation shall primarily be carried out at DR (Burla) and DC(Bhubaneswar) locations. Selected bidders may carry out their site survey and due-diligence after placement of Release Order.</i>

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26	18	ANNEXURE II Scope of Work & Service Level Agreement	m) Supply and installation of necessary cables , accessories (Power cord for Indian standard, cable tie etc.)(Optical patch card/Cat6) & SFP for interconnecting to Servers/leaf switches and Management switches with sufficient quantity. Quantity will be decided at the time of Implementations.	As there is not much clarity mentioned against requirement power cord, necessary cables, optical patch card / CAT 6 , Cable tie, SFP & other accessories required for interconnecting to server leaf switch & management switch , So we request yo to kindly make a group of all those items in a price schedule 'B' and take individual pricing, So, that we will bill as per the actual at the time of installation.	This to clarify that the bidder must account for such material (cables and accessories viz. Power cord for Indian standard, cable tie etc., Optical patch card/ Cat6 with tags & SFP) keeping in view for fully populating the proposed devices.
27	18	Annexure-II , Clause No: <b>3.m</b>	m) Supply and installation of necessary cables , accessories (Power cord for Indian standard, cable tie etc.)(Optical patch card/Cat6) & SFP for interconnecting to Servers/leaf switches and Management switches with sufficient quantity. Quantity will be decided at the time of Implementations.	Requesting to provide a tentative quantity for connector , which required for BoQ sizing.	This to clarify that the bidder must account for such material (cables and accessories viz. Power cord for Indian standard, cable tie etc., Optical patch card/ Cat6 with tags & SFP) keeping in view for fully populating the proposed devices.
28	18	Annexure-II ,Clause No: <b>4</b>	(i) Corrective Maintenance Any system failure, service will be attended by vendor's engineer and if necessary by their specialists and consultant. If any spare parts or full system requires replacement, it should be replaced with equivalent model or higher model only. Till the time spare part / services is replaced/restored, entire appliance will be considered to be down	Is there any standby system is required ? As mentioned replaced with equivalent or higher model.	<i>Tender clause stands. This is to clarify that the SLA shall be calculated on quarterly basis for each equipment.</i>
29	18	Annexure-II ,Clause No: <b>4</b>	(ii) Preventive Maintenance TPCODL/TPWODL/TPNODL/TPSODL will allow vendor to carry out required Preventive Maintenance of the device. The down time required for Preventive Maintenance will be included in total down time of system to calculate quarterly uptime and also communicated to PCODL/ TPWODL/ TPNODL/ TPSODL management by the vendor.	Some clarity required as in clause 2.c) it is mentioned that uptime will be calculated monthly basis, but in this clause quarterly uptime calculation is mentioned.	<i>Tender clause stands. This is to clarify that the SLA shall be calculated on quarterly basis for each equipment.</i>

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30	19	Clause No: <b>Annexure II</b> Point No. <b>10</b>	Configuration/ Call Response Time is 1 Hr.	The configuration required as per technical specifications of every appliance, have dual or redundant components. This shall ensure business continuity hence we request you to relax the response time to 4 hours & resolution time to NBD for Servers, Storage Array, SAN switches.	This clause is to be read as follows. "24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
31	20	2 Socket Specs Gigabit Ethernet Ports	Server should be configured with 1 x Quad Port Network adapter, has dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)	Kindly consider "Server should be configured with has Dual port x 10Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers). Kindly confirm the requirement of 10G Optics or 25G optics with 10/25Gb Adapter  Industry OEM server does not support any Quad card which has 10/25Gb & 1G on same card.pls consider 2x10G card & 1G card separately for redundancy & availability. Kindly confirm the requirement of 10G Optics or 25G optics with 10/25Gb Adapter	This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)"
32	20	Technical Specifications For 'Two Sockets CPU'	Server should be configured with a Dual Port 10/25 Gb Direct Attach/SFP+ Network Adapter (along with compatible transceivers)		This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)"
33	20	Technical Specifications For 'Two Sockets CPU'	<b>OS Support:</b> Offered hardware should support latest OS versions of Windows & Unix such as server 2016/2019/2022, RHEL 7/8, SUSE 12 / Ubuntu / Oracle Linux etc. & future versions	The requirement of compute infrastructure is on 'x86 intel' platform, which does not support a 'Unix' Operating system. Hence request you to kindly reconsider the compliance & modify the same to -  "Offered hardware should support latest OS versions of Windows & LINUX such as server 2016/2019/2022, RHEL 7/8, SUSE 12 / Ubuntu / Oracle Linux etc. & future versions"	Tender clause stands and the "/" mark is to be considered as AND.

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34	20	Technical Specifications For 'Two Sockets CPU'	Processor - Server should be configured with two in numbers minimum of 36 Cores 3rd Gen Intel Xeon-Planium 2.40 GHz Processor or higher	Request TPCODL to please change the clause to: Server should be configured with two in numbers minimum of 36 Cores <b>4rd Gen Intel Xeon-Planium 2.0 GHz Processor or higher</b> <b>Justification:</b> 4th Gen is the latest Gen CPU from Intel and it has min 30% better performace benchmark then 3rd Gen. also support 4800MHz DIMMs 4th Gen have only 36 core processor with 2.0GHz. i.e. 8454Y	Please refer to the response against the query related to Processor of 2-Socket & 4-Socket Servers.
35	21	Technical Specifications For 'Two Sockets CPU'	Processor Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinium @ 3.0 GHz Processor or higher	Request TPCODL to please change the clause to: Server should be configured with four in numbers minimum of 24 Cores <b>4rd Gen Intel Xeon-Planium 2.0 GHz Processor or higher</b> <b>Justification:</b> 3rd Gen IceLake does not support 4 socket server and 4th Gen is the latest Gen CPU from Intel and it has 30% better performace then 3rd Gen. also support 4800MHz DIMMs 4th Gen Platinium 28 core processor with 2.0GHz. i.e. I8450H 4th Gen Platinium 32 core processor with 2.0GHz. i.e I8454H	<i>This clause is to be read as follows.</i> <i>"Processor Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinium @ 3.0 GHz Processor or higher Gen Intel® Xeon® Platinium 24 Cores or higher"</i>
36	20	Technical Specifications For 'Two Sockets CPU'	Server should be configured with 1 x Quad Port Network adapter, which has dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)	Request TPCODL to please change the clause to: Server should be configured with 1 x Quad Port Network adapter or <b>Converged Network Adaptor</b> , which has dual port x 10/25Gb and dual port x 1GbE (along with compatible transceivers if required)	This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)"
37	20	Technical Specifications For 'Two Sockets CPU'	Storage Connectivity : Server should be configured with 2 * Dual Port 32GB, Fiber Channel HBA, (2*SFP+ Short Range, Optical Transceiver, LC Connector) to connect to external storage	Request TPCODL to please change the clause to: Server should be configured with 2 * Dual Port 32GB, Fiber Channel HBA or <b>Converged Network Adaptor</b> , (2*SFP+ Short Range, Optical Transceiver, LC Connector if required) to connect to external storage	Tender clause stands.
38	20	Technical Specifications For 'Two Sockets CPU'	Port: Server should have 1 Number of USB 3.0 ports and 2 Number of USB 2.0. Also, it should have one Video port and a dedicated Ethernet Management port	Request TPCODL to please change the clause to: Server should have 1 Number of USB 3.0 ports and 2 Number of USB 2.0. Also, it should support one <b>Video port and Management port</b>	Tender clause stands and better features are acceptable.

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39	20	Technical Specifications For 'Two Sockets CPU'	Redundant Power Supply - Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications (<=1100 W)	Request TPCODL to please change the clause to: Redundant Power Supply - should be configured with <b>hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications as per required</b> <b>Justification</b> : Processor required 300W+ power so Let OEM decided the power supply	This clause is being omitted. However better energy efficient devices are preferred.
40	20	Two Sockets CPU Server	Network adapter, which has dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)	This is unusual NIC configuration and not supported across leading server OEMs. Network adaptors (NIC) usually come as Dual-ported and that can easily meet the ask here. Kind request to revise as "Server should be configured with dual ported 10/25Gb SFP28 and dual ported 1GbE RJ-45 (along with compatible transceivers)".	This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)"
41	20	Two Sockets CPU Server	Server should have 1 Number of USB 3.0 ports and 2 Number of USB 2.0. Also, it should have one Video port and a dedicated Ethernet Management port	USB 3.0 is latest and hence, request pls consider all USB 3.0 ports only.	Tender clause stands and better features are acceptable.
42	20	Technical Specifications For 'Two Sockets CPU',	Server should be configured with two in numbers minimum of 36 Cores 3rd Gen Intel Xeon-Planium 2.40 GHz Processor or higher	Requirement mentioned in this clause processor is one generation plder i.e. Gen N-1. Request this clause to be amended as below by mentioning the latest processor available, <b>"Server should be configured with two in numbers minimum of 32 Cores 4th Gen Intel Xeon-Planium 2.80 GHz Processor or higher"</b>  This change will help to procure latest server model and the new processor model will deliver more performance compared to the ask in RFP.	This clause is to be read as follows. "Processor - Server should be configured with two in numbers minimum of 36 Cores latest Gen Intel Xeon-Planium 2.00 GHz Processor or higher"
43	20	Technical Specifications For 'Two Sockets CPU',	Intel C620 series chipset or better	As per clause#3, chipset ask in RFP clause is one generation older i.e. Gen N-1. Request the same to be amended as below, <b>"Intel C741 Chipset or better"</b>	Tender clause stands and better features are acceptable.
44	20	Technical Specifications For 'Two Sockets CPU'	Server should be configured with 1TB of ECC DDR4 Memory or higher and scalable up to 2 TB memory	DDR4 (25.6 GB/s transfer rate) is an older slower memory subsystem as compared to DDR5 (38.4 GB/s transfer rate) which is latest one with higher performance. Request the same to be amended as below <b>"Server should be configured with 1TB of ECC DDR5 Memory or higher and scalable up to 2 TB memory"</b>	Tender clause stands.

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45	20	2 Socket Specs Additional Ethernet Ports	Server should be configured with a Dual Port 10/25Gb Direct Attach/SFP+ Network Adapter (along with compatible transceivers)	Kindly confirm the requirement of 10G Optics or 25G optics with 10/25Gb Adapter.	<i>This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers i.e 25Gb SFP)"</i>
46	20	Annexure-II Point -10 .2	Resolution Time-4 hours from the time of call registration.	We request to exclude the travel time.	This clause is to be read as follows. "24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
47	21	Technical Specifications For 'Four Sockets CPU'	Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinum @ 3.0 GHz Processor or higher	kindly read "Server should be configured with four in numbers <b>minimum of 28c latest 4th generation Intel Xeon Planium processor 2.0 GHz or higher</b> " OR "Server should be configured with four in numbers minimum of <b>24c latest 4th generation Intel Xeon Gold processor 2.4 GHz or higher</b> "	<i>This clause is to be read as follows. "Processor Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinum @ 3.0 GHz Processor or higher Gen Intel® Xeon® Platinum 24 Cores or higher"</i>
48	21	Technical Specifications For 'Two Sockets CPU'	<b>Warranty:</b> 7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	Since the location of Infrastructure Setup (DR) is at a distant site from the main city, Hence request you to kindly reconsider the compliance & modify the same to -  '7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 4 hr response & Next Business Day resolution'	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
49	21	Technical Specifications For 'Four Sockets CPU'	PCI Slots - Server should have minimum 6 PCIe slots from day one.	Request TPCODL to please change the clause to: <b>Server should have minimum 3 PCIe slots from day one.</b>	Tender clause stands.
50	21	Two Sockets CPU Server	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	4-hour resolution time shall depend on the actual site/location of deployment and it may not be possible for all locations to maintain 4-hour hardware resolution.	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
51	21	Two Sockets CPU Server	Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications (<=1100 W)	RPS to be considered as per actual requirements to meet 100% load and hence, request remove the power capping from the clause i.e. <=1100 W.	This clause is being omitted. However better energy efficient devices are preferred.
52	21	Two Sockets CPU Server	Request for Addition	"Kindly add the clause as: "Servers shall have security bezel with locking kit and chassis intrusion detection". This is to ensure adequate physical access security to Servers are ensured and auditable."	Tender clause stands and additional features are welcome.

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53	21	Two Sockets CPU Server	Request for Addition	<p>Kindly add the following clauses for enhanced cyber security in the servers:</p> <ul style="list-style-type: none"> <li># Support for Commercial National Security Algorithms (CNSA)</li> <li># Protection from PDOS and Splashing attacks</li> <li># Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation</li> <li># Should support managing multiple servers as one via Group Power Control, Group Power Capping, Group Firmware Update, Group Configuration, Group Virtual Media and Encrypted Virtual Media</li> <li># Security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration</li> <li>Lock features</li> <li># Should have dashboard for firmware baselines while performing minimum required firmware checks and highlighting out-of-compliance devices for updates with the selected firmware baseline.</li> </ul>	Tender clause stands and additional features are welcome.
54	21	Four Sockets CPU Server	Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinum with base clockspeed @ 3.0 GHz Processor or higher, i.e 96 cores	<p>Specification asked are of "Mission Critical" type of Scalable Servers available with leading Server OEMs. However, there is a need to clearly define the requirement from scalability and processor performance perspective. Considering the same, request to revise the clause as: "Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinum with base clockspeed @ 3.0 GHz Processor or higher and peak frequency of 4.3 Ghz or higher, i.e 96 cores. Server should be scalable to 8 processor and 192 cores with base clockspeed @ 3.0 Ghz or higher and peak frequency of 4.3 Ghz or higher with the addition of new chassis and CPUs/memory boards."</p>	<p><i>This clause is to be read as follows.</i></p> <p><i>"Processor Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Platinum @ 3.0 GHz Processor or higher Gen Intel® Xeon® Platinum 24 Cores or higher"</i></p>

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55	21	Four Sockets CPU Server	Server should be configured with 2 TB of ECC DDR4 Memory or higher and scalable up to 4 TB memory	RAM needs to be populated either as 1, 4, 6 or 12 per socket/CPU. With 2TB ask, distribution is 8 RAM modules per Socket/CPU which is unbalanced configuration. Kindly revise to balanced configuration. Clause may please be revised to: "Server should be configured with 3 TB of ECC DDR4 memory and scalable upto 6 TB of memory with the addition of new chassis and CPUs/memory boards or through empty DIMM slots.(either one of these)."	Tender clause stands and better features are acceptable.
56	21	Four Sockets CPU Server	Server should have minimum 6 PCIe slots from day one.	Very minimal ask for a four socket/CPU server. Please revise as "Should have 16 PCIe from day one scalabe to 32 PCIe slots with expansion; OR Should have 12 PCIe from day one scalabe to 24 PCIe slots with expansion"	Tender clause stands.
57	21	Two Sockets CPU Server	Should have integrated management controller with remote presence, Server should be supplied with Server Management software from same OEM with cryptographically signed firmware, TPM 1.2/2.0 or higher FIPS certification	TPM and FIPS are different and hence either one of them should not be accepted. Request pls consider both: TPM 2.0 and FIPS-140-2 or higher here.	Tender clause stands and better features are acceptable.
58	21	Two Sockets CPU Server	Offered hardware should support latest OS versions of Windows & Unix such as server 2016/2019/2022, RHEL 7/8, SUSE 12 / Ubuntu / Oracle Linux etc. & future versions	Understand, all mentioned versions are to be supported in the offered Server and the "/" mark is NOT to be considered as OR. Kindly confirm on the understanding.	Tender clause stands and the "/" mark is to be considered as AND.
59	21	Four Sockets CPU Server	Server should be configured with 1 x Quad Port Network adapter, which has dual port x 10/25 Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)	This is unusual NIC configuration and not supported across leading server OEMs. Network adaptors (NIC) usually come as Dual-ported and that can easily meet the ask here. Kind request to revise as "Server should be configured with dual ported 10/25Gb SFP28 and dual ported 1GbE RJ-45 (along with compatible transceivers)".	This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)"
60	21	Technical Specifications For 'Two Sockets CPU',	Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications (<=1100 W)	Request limit on power supply wattage (<=1100 W) to be removed as power threshold are different for different servers. So, change the clause as below, <b>"Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications "</b>	This clause is being omitted. However better energy efficient devices are preferred.

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61	21	2 Socket Specs Redundant Power Supply	Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications (<=1100 W)	Kindly read "Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications"  Kindly remove <=1100 W as PS depned upon asked configuration which has paltinum proc and 1TB RAM.	This clause is being omitted. However better energy efficient devices are preferred.
62	21	2 Socket Specs Warranty	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	Kindly read "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 8 hrs. resolution time"  Kindly request to choose available support service based on delivery locations.	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
63	21	4 Socket Specs Processor	Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Plantinum @ 3.0 GHz Processor or higher	kindly read "Server should be configured with four in numbers <b>minimum of 28c latest 4th generation Intel Xeon Planitum processor 2.0 GHz or higher</b> " OR "Server should be configured with four in numbers minimum of <b>24c latest 4th generation Intel Xeon Gold processor 2.4 GHz or higher</b> "  <b>Kindly Request to consider latest Intel processor Saphire rapid with higher perfomance &amp; support of DDR5-4800 speed. Ask processor is Intel Cooper lake processor which available with Single Vendor proprietry launch with 4 scoket server. Server vendor like DELL,Cisco,Lenovo,Hitachi &amp; Other does not qualify with same processor. Ask processor is N-1 generation with high power and less perfomance.</b>	<i>This clause is to be read as follows.</i> <i>"Processor Server should be configured with four in numbers minimum of 24 Cores 3rd Gen Intel® Xeon® Plantinum @ 3.0 GHz Processor or higher Gen Intel® Xeon® Plantinum 24 Cores or higher"</i>
64	21	4 Socket Specs Gigabit Ethernet Ports	Server should be configured with 1 x Quad Port Network adapter, has dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)	Kindly read "Server should be configured with has Dual port x 10Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers). Kindly confirm the requirement of 10G Optics or 25G optics with 10/25Gb Adapter  Industry OEM server does not support any Quad card which has 10/25Gb & 1G on same card.pls consider 2x10G card & 1G card separatey for redundancy & availability. Kindly confirm the requirement of 10G Optics or 25G optics with 10/25Gb Adapter	This clause to be read as follows. "Server should be configured with dual port x 10/25Gb SFP+ and dual port x 1GbE RJ-45 (along with compatible transceivers)"

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65	22	Technical Specifications For Tape Library	All the slots in the tape library should be accessible by a Dual robot and not by means of any pass through mechanism or elevator action	Dual Robotics option only comes in Highend Enterprise grade class Tape Library. Hence, request you to remove "Dual Robotic" from the small capacity Library. Small Library's Robotic arm works only either with Pass through mechanism or elevator action.  Hence, Request you to kindly remove Dual Robot option for this Library.	<i>This clause is to be read as follows. "All the slots in the tape library should be accessible by single robot and not by means of any pass through mechanism or elevator action" Selected bidder shall provide a spare robot to be kept at DC which can be mounted on demand.</i>
66	22	Technical Specifications For Tape Library	Should compatible with current and future versions of all standard backup software, like Veem ,Net vault, Commvault, Networker, , etc. Along with associated key of OEM - on perpetual basis.	Backup Software's future version are only controlled with Backup OEM, any Tape Library OEM can't controll those furure version whether they will be compatible to this generation Drives or not. Request you to remove the future comapatibility support from Tape OEMs.  Clarification required- What is the meaning of Associated Keys of OEM?	<i>Tender clause stands. Selected party shall ensure that if any key/license is required for the existing backup software, bidder will provide the same on perpetual basis. In the current environment, existing backup software are as follows. 1. Veeam 2. Commvault 3. HPDP 4. Veritas NetBackup Bidders may carry out further due-dilgence in this regard.</i>
67	22	Technical Specifications For Tape Library	Must support speed of Up to 300 MBps native with LTO Ultrium 8	LTO-8 Gen Drive speed is 360 MBps if using a Full height Dual ported drives or else Half Height drives provides lesser speed by 20% and that is equals to older generation LTO-7 drives. Hence request you to pls change it to 360 MBps native speed as per LTO-8 drive generation speed.	<i>This clause is to be read as follows. "Must support speed of more than 300 MBps per drive native with LTO Ultrium 8"</i>
68	22	Technical Specifications For Tape Library	Tape Library should have Embedded Hardware encryption and Compression from day one	Suggestion & Clarification- To manage Encryption Keys, we recommend you to include Encryption Key Manager. Encryption Key Manager always should be in High availability pair either as a Virtual or hardware appliance to store the encryption keys in redundant fashion. Virtual appliance required virtual infra to be provided by the end customer in the same premises and redundant hardware comes as physical HA appliance, If encryption management to be done at Library level.	<i>This clause is to be read as follows. "Tape Library should have Embedded Hardware/ Software encryption and Compression from day one"</i>
69	22	Technical Specifications For Tape Library	Tape Library must have support for Path Failure for High Redundancy from day one	Clarification - Path Fail-over is for Data & Control path failover (Control Path failover is for Robotic arm control & Data Path failover is for Data Path Redundancy). Request you to kindly mention as "Tape Library must have Data Path Failure & Control Path Failover for High Redundancy from day one.	<i>This is to be read as follows. "Tape Library must have support for Path( drive as well as robot) Failure for High Redundancy from day one"</i>

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70	22	Technical Specifications For Tape Library	Must have for Dual 8Gb FC port and 6 GB SAS port along with suitable cables, without additional cost to TPCODL/TPNODL/TPWODL/TPSODL	Any LTO Drives comes either with FC connectivity or SAS Connectivity. Request you to pls specify singly type of Interface connectivity for LTO drives as per the available Network or HBAs to the Backup server or FC network. Also specify Dual 8GB FC and 6GB port means , shall each drive have dual port?	<i>This clause is to be read as follows. "Must have for Dual 8Gb FC port for each drive along with suitable cables, without additional cost to TPCODL/TPNODL/TPWODL/TPSODL"</i>
71	22	Technical Specifications For Tape Library	Library Should support all standard operating systems Like , Ms windows , IBM aix , Red Hat & SUSE Linux, UBANTU, Oracle Linux and other Linux flavors in TPCODL/TPNODL/TPWODL/TPSODL environment	Generally the Tape Library connectivity happens thru the FC HBA either using direct or via Network and any Operating systems need that HBA card drivers to be detected so that the HBA can recognise the Tape Library.	Tender clause stands.
72	22	Technical Specifications For 'Four Sockets CPU'	<b>OS Support:</b> Offered hardware should support latest OS versions of Windows & Unix such as server 2016/2019/2022, RHEL 7/8, SUSE 12 / Ubuntu / Oracle Linux etc. & future versions	The requirement of compute infrastructure is on 'x86 intel' platform, which does not support a 'Unix' Operating system. Hence request you to kindly reconsider the compliance & modify the same to -  "Offered hardware should support latest OS versions of Windows & LINUX such as server 2016/2019/2022, RHEL 7/8, SUSE 12 / Ubuntu / Oracle Linux etc. & future versions"	Tender clause stands and the "/" mark is to be considered as AND.
73	22	Technical Specifications For 'Four Sockets CPU'	<b>Warranty:</b> 7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	Since the location of Infrastructure Setup (DR) is at a distant site from the main city, Hence request you to kindly reconsider the compliance & modify the same to -  '7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 4 hr response & Next Business Day resolution'	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
74	22	Technical Specifications For Tape Library	<b>Accessibility:</b> All the slots in the tape library should be accessible by a Dual robot and not by means of any pass through mechanism or elevator action	Request to modify the compliance as below- All the slots in the tape library should be accessible by Single or Dual robot and not by means of any pass through mechanism or elevator action	<i>This clause is to be read as follows. "All the slots in the tape library should be accessible by single robot and not by means of any pass through mechanism or elevator action" Selected bidder shall provide a spare robot to be kept at DC which can be mounted on demand.</i>

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75	22	Four Sockets CPU Server	Should have RAS features such as Hot swappable disks, Hot pluggable Power Supplies, Cooling fans etc.	Four Socket mission critical servers have usually better Enhanced RAS features. Kindly revise as "Should have RAS features such as Hot swappable disks, Hot pluggable Power Supplies, Cooling fans etc in addition to MCA Gen2 recovery ADDDC memory options, Automatic deconfiguration of DIMMs. Processor deconfiguration, I/O Advanced Error Recovery, and Live Error Recovery."	Tender clause stands and better features are acceptable.
76	22	Four Sockets CPU Server	Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications (< = 1800 W)	RPS to be considered as per actual requirements to meet 100% load and hence, request remove the power capping from the clause i.e. <=1800 W.	This clause is being omitted. However better energy efficient devices are preferred.
77	22	Four Sockets CPU Server	Offered hardware should support latest OS versions of Windows & Unix such as server 2016/2019/2022, RHEL 7/8, SUSE 12 / Ubuntu / Oracle Linux etc. & future versions	Understand, all mentioned versions are to be supported in the offered Server and the "/" mark is NOT to be considered as OR. Kindly confirm on the understanding. Aside, kindly consider the detailed list to ensure investment protection: "Offered hardware should support latest OS versions of Red Hat Enterprise Linux (RHEL) including KVM support, SUSE Linux Enterprise Server (SLES) including KVM Support, Oracle Linux/Oracle UEK, VMware, Microsoft Windows Server 2016 Standard and Datacenter including Hyper-V Support, Microsoft Windows Server 2019 Standard and Datacenter including Hyper-V Support, Microsoft Windows Server 2022 Standard and Datacenter including Hyper-V Support"	Tender clause stands and the "/" mark is to be considered as AND.
78	22	Four Sockets CPU Server	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	4-hour resolution time shall depend on the actual site/location of deployment and it may not be possible for all locations to maintain 4-hour hardware resolution. Kindly reconsider the clause.	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
79	22	Four Sockets CPU Server	Request for Addition	"Kindly add the clause as: "Servers shall have security bezel with locking kit and chassis intrusion detection". This is to ensure adequate physical access security to Servers are ensured and auditable."	Tender clause stands and additional features are welcome.
80	22	Tape Library	All the slots in the tape library should be accessible by a Dual robot and not by means of any pass through mechanism or elevator action	Please remove this clause as 40 slot , 2 drive tape drives are asked , dual robotics for the 2 Drives is not inline. This is specific to an OEM offering and providing undue advantage to the OEM.	<i>This clause is to be read as follows. "All the slots in the tape library should be accessible by single robot and not by means of any pass through mechanism or elevator action" Selected bidder shall provide a spare robot to be kept at DC which can be mounted on demand.</i>

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81	22	Tape Library	Tape Library should have Embedded Hardware encryption and Compression from day one	Request relax the clause as: "Tape Library should have Embedded Hardware encryption and Compression from day one OR Encryption and compression shall be provided at the solution level."	<i>This clause is to be read as follows. "Tape Library should have Embedded Hardware/ Software encryption and Compression from day one"</i>
82	22	Tape Library	Must have for Dual 8Gb FC port and 6 GB SAS port along with suitable cables, without additional cost to TPCODL/TPNODL/TPWODL/TPSODL	Please remove "SAS" from this clause as RFP has asked for FC interconnect switch	<i>This clause is to be read as follows. "Must have for Dual 8Gb FC port for each drive along with suitable cables, without additional cost to TPCODL/TPNODL/TPWODL/TPSODL"</i>
83	22	Clause No: <b>Annexure I</b>	All the slots in the tape library should be accessible by a Dual robot and not by means of any pass through mechanism or elevator action	We request you to change this specifications to Single Robot/Accessor in place of Dual Robot	<i>This clause is to be read as follows. "All the slots in the tape library should be accessible by single robot and not by means of any pass through mechanism or elevator action" Selected bidder shall provide a spare robot to be kept at DC which can be mounted on demand.</i>
84	22	Four Sockets CPU Server	Server should have 1 Number of USB 3.0 ports and 2 Number of USB 2.0. Also, it should support one Video port and a dedicated Ethernet Management port	USB 3.0 is latest and hence, request pls consider all USB 3.0 ports only.	Tender clause stands and better features are acceptable.
85	22	Four Sockets CPU Server	Should have integrated management controller with remote presence, Server should be supplied with Server Management software from same OEM with cryptographically signed firmware, TPM 1.2/2.0 or higher FIPS certification	TPM and FIPS are different and hence either one of them should not be accepted. Request pls consider both: TPM 2.0 and FIPS-140-2 or higher here.	Tender clause stands and better features are acceptable.
86	22	Power Supply	Tape Library must be Rack Mountable. shall be configure with redundant power supply form day 1 with required power cable to connect with the rack PDU's (Indian Sockets).	Data center Power connector are standard as NEMA or IEC, Request you to include those standard Power connectors for the Data centre.	Tender clause stands.
87	22	Management	Library Should have Web Base remote Management a) Can predict and prevent failures through early warning and shall also suggest the required service action. b) Has the capability to determine when to retire the tape cartridges and what compression ratio is being achieved	LTO-8 gen has standard max. compression ratio i.e. 2.5:1 and Cartridge health can be seen on the Media health for user to determine its health. It is always a user to determine whether they can discard / retire the cartridge or no, as it has data on it. Request you to kindly amend the clause accordingly.	Tender clause stands and better features are acceptable.

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88	22	Tapes & Bar Codes	Vender to supply 40 Media tapes, 40 Bar codes(in duplicate) and 4 cleaning tapes without any additional cost to TPCODL/TPNODL/TPWODL/TPSODL	Any Items required in the Tape Library as LTO Drives, Slots, Power supply, Cables, consumable like Media, Barcodes, Cleaning Media would have its own cost. Request you to pls amend the clause accordingly.	<i>Tender clause stands and bidder must include these minor items as part of delivery along with the Tape Library.</i>
89	22	4 Socket Specs Redundant Power Supply	Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications (< = 1800 W)	Kindly read "Server should be configured with Dual hot-pluggable redundant power supplies with 80 PLUS Platinum certification or similar energy efficient certifications"  Kindly remove <=1800 W as PS depned upon asked configuration which has paltinum proc and 2TB RAM.	This clause is being omitted. However better energy efficient devices are preferred.
90	22	4 Socket Specs Warranty	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	Kindly read "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 8 hrs. resolution time"  Kindly request to choose available support service based on delivery locations.	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
91	22	Tape Library Drive slots	Tape Library with 2 LTO 8 drives from days one . Drive slots - Scalable to one more drive within same controller; LTO-7(Read and write), LTO-8(Read and write)	Kindly read" Tape Library with 2 LTO 8 drives from days one. LTO-7(Read and write), LTO-8( Read and write)"  Every OEM can scale to min 22 Tape drive slot in a single tape library ,then why we are restricted to single slot. Kindly consider total scalability.	Tender clause stands.
92	22	Tape Library Accessibility	All the slots in the tape library should be accessible by a Dual robot and not by means of any pass through mechanism or elevator action	Kindly read as " All the slots in the tape library should be accessible by a robot and not by means of any pass through mechanism or elevator action. Every OEM has different motion of accessabilites. robot should be shared and access all the max modules on a set of rails within tape library.	<i>This clause is to be read as follows. "All the slots in the tape library should be accessible by single robot and not by means of any pass through mechanism or elevator action" Selected bidder shall provide a spare robot to be kept at DC which can be mounted on demand.</i>
93	23	Technical Specifications For Tape Library	Library Should have Web Base remote Management a) Can predict and prevent failures through early warning and shall also suggest the required service action. b) Has the capability to determine when to retire the tape cartridges and what compression ratio is being achieved	Kindly read" Library Should have Web Base remote Management"	Tender clause stands and better features are acceptable.
94	23	Technical Specification for 'External Storage Array'	Should support minimum 250 K IOPS for 150TB usable, 8k block	If you going for 250 k IOPS and Better performance by NvMe drives, please mention response time below 1 ms as it will directly relate to application performance and latency. Anything higher than this will affect the access to the application.	<i>Tender clause to be read as follows "Should have minimum 250 K IOPS from Day-1 for 250TB usable, 8k/16k block"</i>

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95	23	Technical Specification for 'External Storage Array'		Please specify the Read Write percentage for the workload?	Storage to deliver 250K IOPS FE for 70:30 Read Write (Random Read 50%, Sequential Read 20%, Random Write 20%, and Sequential Write 10%) .
96	23	Technical Specification for 'External Storage Array'	Storage should support Raid 0, 1, 10, 5 and Raid 6 ( User may advice for any RAID configuration as per business need)	If you asking for reliable and advance technology like NvMe then why do you require dual drive failure with RAID 6. With such high reliable technology single drive failure with RAID 5 is good and will be economically beneficial for you.	<i>This clause is amended as "Storage should support Raid 10, 5 and Raid 6 ( User may advice for any RAID configuration as per business need)"</i>
97	23	Technical Specification for 'External Storage Array'	Minimum of 32 GB cache per controller in a single unit.	To meet 250 K IOPS 32 GB cache is too less. Please increase it 128 GB or higher because you need snapshot/replications and 150 TB Capacity for this 32 GB is too less.	<i>This clause is to be read as follows. "Minimum of 128 GB cache per controller in a single unit"</i>
98	23	Technical Specification for 'External Storage Array'		Do you want us to size using De duplication and compression ? Yes then whats the ratio.	No such requirement has been mentioned in the tender specification.
99	23	Technical Specification for 'External Storage Array'	*NVMe SSD, 2.5inch drives *Required 150TB usable should be delivered through NVMe drives *Encryption feature through native software or drives	You have asked for only NvMe drives but back plane asked in tender is SAS for Storage as mentioned in Point No 7. It Doesnt make sense technically to have front end of NvMe but backplane of SAS. Ideally if you want to harness latest technology then front end drives along with back end plane should end to end NvMe to get the benefits.	<i>This clause is to be read as follows **SAS SSD, 2.5inch drives *Required 250TIB usable should be delivered through SAS SSD drives *Encryption feature through native software or drives"</i>
100	23	External Storage Array	Should support minimum 250 K IOPS for 150TB usable, 8k block	Please revise to mention the desired response time such as "Should support minimum 250 K IOPS for 150TB usable, 8k block with less than 1 ms of response time at all times."	<i>Tender clause to be read as follows "Should have minimum 250 K IOPS from Day-1 for 250TB usable, 8k/16k block"</i>
101	23	External Storage Array	Minimum of 32 GB cache per controller in a single unit.	32GB cache per controller is very minimal and hence, request revise to ensure sustained performance - "Minimum of 256 GB cache per controller in a single unit."	<i>This clause is to be read as follows. "Minimum of 128 GB cache per controller in a single unit"</i>
102	23	External Storage Array	Cache protection should be available in case of power failure	Please relax the clause and revise as "Cache protection should be available in case of power failure OR storage shall be provided with an mechanism to protect the write data for all the write I/O."	Tender clause stands.
103	23	External Storage Array	Cache protection either using batteries or capacitors	Please relax the clause and revise as "Cache protection either using batteries or capacitors or disc OR storage shall be provided with an mechanism to protect the write data for all the write I/O."	Tender clause stands.
104	23	External Storage Array	NVMe SSD, 2.5inch drives	Please mention the SSD type as well and revise as "NVMe SSD, 2.5inch drives (non QLC NVMe SSD)"	<i>This clause is to be read as follows **SAS SSD, 2.5inch drives *Required 250TB usable should be delivered through SSD drives *Encryption feature through native software or drives"</i>

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105	23	External Storage Array	Required 150TB usable should be delivered through NVMe drives	Please mention the SSD type as well and revise as "Required 150TB usable should be delivered through NVMe drives (non QLC NVMe SSD)"	This clause is to be read as follows  **SAS SSD, 2.5inch drives *Required 250TB usable should be delivered through SSD drives *Encryption feature through native software or drives"
106	23	External Storage Array	Min. 1Gbe port per controller for management	Please relax the clause as "Min. 1Gbe port per controller for management) OR management shall be provided via Web/GUI."	<i>This clause is to be read as follows. "Min. 1Gbe port per controller for management OR management shall be provided via Web/GUI"</i>
107	23	External Storage Array	12G SAS Back-end connectivity for storage expansion	Storage asked here is NVMe and hence, revise to remove ambiguity as "Storage should have backend on NVMe , proposed array shall be end to end NVMe array."	This clause is to be read as follows. "12G or higher SAS Back-end connectivity for storage expansion "
108	23	External Storage Array	Storage should support Raid 0, 1, 10, 5 and Raid 6 ( User may advice for any	Latest generation storage have no legacy RAID support and hence, request to revise as "Storage should support RAID5 or RAID6"	Tender Clause stands
109	23	Technical Specification for 'External Storage Array,	Minimum of 32 GB cache per controller in a single unit.	Since high performance NVMe storage is asked in the RFP, 32 GB cache per controller is very less to handle the workload. Modern NVMe based storage system requires more cache and starts with minimum of 384 GB cache. Therefore requesting to change the clause as below, <b>"Minimum of 192 GB cache per controller in a single unit."</b>	This clause is to be read as follows. "Minimum of 128 GB cache per controller in a single unit"
110	23	Technical Specification for 'External Storage Array,	Storage should support Raid 0, 1, 10, 5 and Raid 6 ( User may advice for any AID configuration as per business need)	Raid 0 is never used on any production storage system as it does not provide any protection from disk failure. Similarly Raid 1 is subset of Raid 10. Therefore, requesting to change the clause as below, <b>"Storage should support Raid 1/10, 5 and Raid 6 ( User may advice for any AID configuration as per business need)"</b>	Tender Clause stands
111	23	External Storage Array, Array Architecture, Point 3	All Flash Storage array Dual active-active HA array controllers Load balancing capability native to storage	Dear Technical Committee, Requesting you to kindly ammend and change the same as load balancing is OEM specific and QoS would be better as it will ensure that performance of critical workloads is not degraded:  All Flash Storage array Dual active-active HA array controllers Load balancing capability native to storage	Tender clause stands

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112	23	External Storage Array, Capacity and performance, Point 4	Storage should be scalable to 300TB usable capacity in RAID 6 with existing enclosure.	Dear Technical Committee, Requesting you to kindly ammend and change the same to multi-petabyte in order to safeguard the investment for future growth:  Storage should be scalable to atleast 3 Petabyte usable capacity in RAID 6 with existing enclosure.	<i>This clause is to be read as follows Storage should be scalable to 3 times in RAID 5,6,10 with existing enclosure.</i>
113	23	External Storage Array, Cache/memory, Point 5	Minimum of 32 GB cache per controller in a single unit.	Dear Technical Committee, Requesting you to kindly ammend and change the same as 32GB Cache would not have enough performance enhancement and I/O Optimization, To:  Minimum of 384 GB cache should be provided for the same on Day 1.	<i>This clause is to be read as follows. "Minimum of 128 GB cache per controller in a single unit"</i>
114	23	External Storage Array, Drives, Point 6	NVMe SSD, 2.5inch drives	Dear Technical Committee, Requesting you to kindly ammend the same to safeguard future investment, To:  NVMe SSD, SSD, SAS and NLSAS	This clause is to be read as follows  **SAS SSD, 2.5inch drives *Required 250TB usable should be delivered through SSD drives *Encryption feature through native software or drives"
115	23	External Storage Array, Drives, Point 6	Encryption feature through native software or drives	Dear Technical Committee, Requesting you to kindly seek Hardware Based Encryption and not Disk based encryption as Data gets encrypted and is then written to Disk in Hardware Based Encryption and Data Gets writted to disk and then gets encrypted giving an open end to Data which can be targeted.  Encryption feature through hardware based encryption.	Tender clause stands
116	23	External Storage Array, Adapter & Port, Point 7	Supplied with 8 x 32 Gbps FC ports, 4 ports per controller	Dear Technical Committee, Requesting you to kindly seek for Copper Ports instead of all FC ports for redundancy purpose, Also 8 x 32GB FC ports can deliver 250K IOPS, hence requesting you to kindly ammend and change the same to:  Supplied with 8 x 32 Gbps FC ports and 4 x 10G Copper Ports.	Tender clause stands and additional features are welcome.
117	23	External Storage Array, RAID Support, Point 9	Storage should support Raid 0, 1, 10, 5 and Raid 6	Dear Technical Committee, Requesting you to kindly ammend and seek RAID 10, RAID 5 and RAID 6:  Storage should support Raid 10, RAID 5 and RAID 6	Tender Clause stands

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118	23	External Storage Array, OS Support, Point 12	The storage array should support industry-leading Operating System platforms including: Windows 2016 / 2019 / 2022, VMware and Redhat Linux, Suse Linux, KVM, OLVM, Ubuntu etc.	Dear Technical Committee, Requesting you to kindly change the same as few of the said Operating Systems are not industry recommended production clusters like KVM.  The storage array should support industry-leading Operating System platforms including: Windows 2016 / 2019 / 2022, VMware and Redhat Linux, AIX, HP-UX , Solaris, OLVM, Ubuntu, VIOS, etc.	Tender clause stands and better features are acceptable.
119	23	External Storage Array, Warranty, Point 13	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	Dear Technical Committee, Requesting you to kindly change the same to 5 Years Comprehensive Onsite Hardware as technology changes are frequent after 4 years and to safeguard investment and no vendor lockin kindly change the same to :  5 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time in Tier 1 City	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
120	24	Technical Specification for 'SAN Switch'	Should have auto-sensing 4, 8, 16Gbps capabilities	Should have auto-sensing 4, 8, 16Gbps capabilities. The Auto sensing can support till 8 Gbps, 4 Gb wont be supported	<i>This clause to be read as "Should have auto-sensing 8, 16Gbps capabilities with 32 Gb FC SFPs"</i>
121	24	Technical Specification for 'SAN Switch'	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	Request you to change to 24*7 with 4 Hr response time and 8 Hrs resolution.	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
122	24	Technical Specification for 'External Storage Array'	Storage should have replication and Migration	We request you to kindly provide clarity on Storage should have replication and Migration- Please provide further clarification on data migration source?	<i>"Storage should have replication and Migration" means storage should be able to migrate data from existing storage and in future data from the new storage should also be migratable to any other storage which must be enabled from Day-1. Further, replication of data from existing storage to the storage to be proposed by selected bidder and vice-versa must be enabled from Day-1. Such enablement should not have separate cost implication to the owner within the Warranty period irrespective of data volume to be replicated / migrated. Data migration from existing to new storage may be required as per need during the support phase.</i>

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123	24	External Storage Array	The storage array should support industry-leading Operating System platforms including: Windows 2016 / 2019 / 2022, VMware and Redhat Linux, Suse Linux, KVM, OLVM, Ubuntu etc	Please relax and revise the clause as: "The storage array should support industry-leading Operating System platforms including: Windows 2016 / 2019 / 2022, VMware and Redhat Linux, Suse Linux etc."	Tender clause stands.
124	24	External Storage Array	7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time	4-hour resolution time shall depend on the actual site/location of deployment and it may not be possible for all locations to maintain 4-hour hardware resolution. Kindly reconsider the clause.	Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"
125	24	SAN Switch	Should have auto-sensing 4, 8, 16Gbps capabilities	Please relax and revise as "Should have auto-sensing 8, 16Gbps capabilities." 4Gb FC is no more supportable.	<i>This clause to be read as "Should have auto-sensing 8, 16Gbps capabilities with 32 Gb FC SFPs"</i>
126		Technical Specification for 'External Storage Array'	Additional Clause	Since you are going for latest technology and in today's world security is of paramount, you should ask vendors to provide ransomware protection in storage from day 1 because it is impacting most of the enterprise in current times even if you are working on a overall security strategy.	Tender clause stands and additional features are welcome.
127		New Point		The devices installation is one time activity, in case the reinstallation is required it will be done on chargeable basis.	<i>This is to clarify that reinstallation of upto 15% device rounded up to next whole sum for each device type should be considered during product support phase.</i>
128			Installation completion and/or Sign-off Criteria	Request you to elaborate the criteria for considering installation completion OR sign-off of all items in RFP, i.e Servers, SAN Storage, SAN Switches, Backup Devices (Tape Library) one line item.	Please refer to the SOW clauses.

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129		GENERAL	Storage	The proposed SAN should be combine with existing SAN storage solutions as datastore and volumes with Microsoft or VMware or linux. Want to understand how will you integrate existing storage (880F) with new proposed SAN as we understand the existing storage will be working and will not be in isolation and data will be replicated to new SAN. How do you plan replicate the data ? If you base your replication on software then you need skillset of all different kind of databases, Operating systems and applications which will increase the cost and service delivery and cost of operations. Hardware based Storage has advantages of (1- Consolidated replication of data irrespective of application , OS and its versions etc.) ( 2- Capacity and linked optimized data replication ) – The hardware based replication point is <b>only for E Square understanding. Remove it when submitting as a query.</b>	<i>"Storage should have replication and Migration" means storage should be able to migrate data from existing storage and in future data from the new storage should also be migratable to any other storage which must be enabled from Day-1. Further, replication of data from existing storage to the storage to be proposed by seleted bidder and vice-versa must be enabled from Day-1. Such enablement should not have separate cost implication to the owner within the Warranty period irrespective of data volume to be replicated / migrated.</i>
130		GENERAL	Storage	What you mean by Storage should have replication and Migration- Please provide further clarification on data migration source?	<i>"Storage should have replication and Migration" means storage should be able to migrate data from existing storage and in future data from the new storage should also be migratable to any other storage which must be enabled from Day-1. Further, replication of data from existing storage to the storage to be proposed by seleted bidder and vice-versa must be enabled from Day-1. Such enablement should not have separate cost implication to the owner within the Warranty period irrespective of data volume to be replicated / migrated.</i>
131		GENERAL	Sanswitch	Warranty 7 Years Comprehensive Onsite Hardware & software OEM Warranty 24*7 with 1 hr. response time & 4 hrs. resolution time- Request you to change to 24*7 with 4 Hr response time and 8 Hrs resolution.	<i>Tender clause is to be read as follows "7 Years Comprehensive Onsite Hardware &amp; software OEM Warranty 24*7 with 1 hr. response time &amp; 4 hrs. resolution time and selected party must plan accordingly to meet the SLA"</i>
132			"Bidder has to mandatorily quote against each item of Schedule of Items [Annexure I]. Failing to do so, TPCODL/TPNODL/TPSODL/TPWODL may reject the bids"	bidders can quote for single individual line wise as mentioned in the Schedule of Items [Annexure I].	<i>This Clause is amended as "Bidder may quote against any lot as mentioned in the query reply sl no 4. However, EMD value to be submitted as per Tender Document."</i>