

**Pre Bid Queries for "RC for SITC of Different type of network switches required in TPWODL and TPSODL" against
Tender Enquiry No. TPCODL/CCG/23-24/034**

Sl. No	RFP Page Number	Ref clause	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
1		1.7 Qualification Criteria	The BA must be CMMI level 3 Certified. In this case OEM certification will not be considered for SITC job.	we request TPCODL to remove this clause from qualification criteria	The OEM/Bidder must be CMMI level 3 Certified.
2		Technical Specifications for Spine Switches	The Switch should have thirty two (32x40/100) QSFP28 ports from day one.	The Switch should have thirty two or more (40/100G) QSFP28 ports from day one. Justification: Increasing the port count on spine switches to accommodate the growing network demands, facilitate connectivity ensuring the required scalability to support future growth	The clause stands updated as - "The Switch should have minimum thirty two (32x40/100) QSFP28 ports from day one. The 100G ports should be breakout capable and support mulirate speeds of 10/25/40/100G", bidder is free to quote switch with higher port count, however switch count in the BoQ stands as it is.
3		Technical Specifications for Spine Switches	Switch must support buffer of 32MB or more	Switch must support buffer of 80MB or more Justification: Higher buffer is always recommended in DC environments. Requesting an increase in the buffer size from 32MB to 80MB to enhance the switch's capacity to handle growing traffic demands within the core layer of data center	These are minimum specs required and anything better is acceptable
4		Technical Specifications for Spine Switches	Solution should support Non-Clos,3-Clos , 5-Clos architecture on BGP-EVPN IP Fabric	Solution should support Clos architecture on BGP-EVPN IP Fabric with VxLAN with Layer-3 gateway Capabilities. Justificaton- 'Benefits: -Non-Clos is not recommended in DC because Clos architecture offers superior scalability, reduced latency, and efficient traffic distribution, making it an ideal choice for optimizing data center network performance. - VxLAN, as it enhances network scalability, enables efficient multi-tenancy, and facilitates seamless workload mobility to support evolving business requirements. - Fabric should support Layer-3 gateway in VxLAN based fabric to fully leverage the benefits of VxLAN/SDN fabric	No Change, the solution should be open to support Non-Clos,3-Clos , 5-Clos architecture on BGP-EVPN IP Fabric/ However, bidder is free to propose switches which support additional capabilities.
5		Technical Specifications for Spine Switches	Solution must be optimized for automated fabric based deployment that is based on proven, open standard-based protocols	Solution must be optimized for automated fabric-based deployment and should support Multicast routing for underlay as well as overlay in VxLAN/SDN fabric, leveraging established protocols. The fabric should also have ability to assign more than one VNI to a virtual network in VxLAN Justification- Requesting to include established standard protocols from the RFP to streamline compatibility and security, promoting a more controlled and tailored network environment. -Capability of multiple VNIs is needed which can scale network more effectively. Each VNI can represent a separate network domain, allowing for better distribution of traffic and reducing the potential for congestion. -Requesting to add solution that must support Multicast protocol for the VxLAN based fabric to function in an efficient manner whereas VxLAN headend replication is suitable for small scale requirements	No Change, the Solution must be optimized for automated fabric based deployment that is based on proven, open standard-based protocols. However, bidder is free to propose switches which support additional capabilities.

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6		Technical Specifications for Spine Switches	Switch should be capable to use flows from analytics platform to provide security against DDOS mitigation (Additional hardware/software can be quoted to complete the solution)	Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS. Justification- Switch hardware and software are capable of protecting themselves against various types of security attacks. However, security measures related to endpoints or servers connected to switches should be handled by a dedicated firewall or intrusion prevention system (IPS). Having such capabilities on a switch will impact performance of a switch. Hence requesting for a change in the specification as mentioned	OK
7		Technical Specifications for Spine Switches	The product / solution proposed must be deployed in direct consultation with the OEM technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Bidder needs to submit the OEM authorized letter confirming the involvement of professional services for the proposed solution directly from the OEM	The product / solution proposed must be deployed in direct consultation with the OEM/Bidder technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Justification- The Solution is being designed with direct consultation with OEM, however, the implementation will lie in the bidder's scope because Bidder/SI are authorized implementation partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution.	No Change. OEM to propose along with their direct professional services to prepare HLD/LLD and validate & audit the configuration during the implementation stage along with the bidder in front end. This is required as per project criticality and based on previous experience by Tata Powe
8		Technical Specifications for Spine Switches	The support must include direct OEM proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Bidder needs to submit the OEM letter / document confirming the OEM services for Day2 operations.	The support must include OEM/Bidder proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Justification- Cisco TAC is available 24x7 and engages directly with customer for any troubleshooting activity and advisories. Bidder/SI are authorized partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution from Day 2 standpoint.	No Change. OEM to propose high touch support services along with SPOC for all coordination and facilitation of all TAC cases and technical support provided by OEM directly in consultation with bidder at front end. This is applicable for the duration of full 7years support.
9		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	The Switch should have forty Eight (48x1/10/25G SFP28) and 8x 40/100G QSFP28 ports from day one. The 100G ports should be breakout capable and support mulirate speeds of 10/25/40/100G	The Switch should have forty Eight (48x1/10/25G SFP28) and 6 or more x 40/100G QSFP28 ports from day one. The 100G ports should be breakout capable and support mulirate speeds of 10/25/40/100G. Justification: This is a single OEM/vendor-specific clause. In a data center, considering industry standard minimum ratio of 1:6 (uplink capacity:downlink capacity) for 48 ports of 1/10/25Gbps capacity, it is required to have uplinks of 2 or more ports with 40/100Gbps in a data center network switch. As per point No.9 - the uplink port count needed is 2.9 and as such 6-ports are sufficient.	No Change, this is a functional requirement and all major OEMs have products that support the required port count. Bidder is free to propose switches which have higher port count.
10		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	Switch must support buffer of 32MB or more	Switch must support buffer of 40MB or more Justification-Higher buffer is always recommended in DC environments. Requesting an increase in the buffer size from 32MB to 40MB to enhance the switch's capacity to handle growing traffic demands within the Access layer of data center	No change, bidder is free to quote switch with higher buffer size.

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11		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	Solution should support Non-Clos,3-Clos , 5-Clos architecture on BGP-EVPN IP Fabric	<p>Solution should support Clos architecture on BGP-EVPN IP Fabric with VxLAN with Layer-3 gateway Capabilities</p> <p>Justification-Benefits:</p> <p>-Non-Clos is not recommended in DC because Clos architecture offers superior scalability, reduced latency, and efficient traffic distribution, making it an ideal choice for optimizing data center network performance.</p> <p>- VxLAN, as it enhances network scalability, enables efficient multi-tenancy, and facilitates seamless workload mobility to support evolving business requirements.</p> <p>- Fabric should support Layer-3 gateway in VxLAN based fabric to fully leverage the benefits of VxLAN/SDN fabric</p>	Refer point no.4 against SPINE Switch Pre-bid query
12		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	Solution must be optimized for automated fabric based deployment that is based on proven, open standard-based protocols	<p>Solution must be optimized for automated fabric-based deployment and should support Multicast routing for underlay as well as overlay in VxLAN/SDN fabric, leveraging established protocols. The fabric should also have ability to assign more than one VNI to a virtual network in VxLAN</p> <p>Justification-Requesting to include established standard protocols from the RFP to streamline compatibility and security, promoting a more controlled and tailored network environment.</p> <p>-Capability of multiple VNIs is needed which can scale network more effectively. Each VNI can represent a separate network domain, allowing for better distribution of traffic and reducing the potential for congestion.</p> <p>-Requesting to add solution that must support Multicast protocol for the VxLAN based fabric to function in an efficient manner whereas VxLAN headend replication is suitable for small scale requirements</p>	These are minimum specs required and anything better is acceptable
13		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	The Leaf switches should be supplied with minimum 8 nos of 10G MM transceivers (specifically 10G SR supporting FCOE) and additionally should be supplied with 2 no. 40G DAC / AOC cable (20m) and 2no. 40G DAC / AOC cable (10m) for IP Fabric connectivity between spine B43 - leafs or leaf-leaf for cluster respectively from Day-1.	<p>The Leaf switches should be supplied with minimum 8 nos of 10G MM transceivers (specifically 10G SR supporting FCOE) and additionally should be supplied with 2 no. 40G DAC / AOC cable (20m) and 2no. 40G DAC / AOC cable (10m) for IP Fabric connectivity between spine B43 - leafs for cluster respectively from Day-1.</p> <p>Justification-Considering 2 Spine Switches, Leaf to Leaf connectivity for IP Fabric can be achieved by connecting Leafs to Spine and as such Leaf to Leaf physical connectivity is not needed which reduces number of 40/100 Optics required. Leveraging the fabric ports ensures optimal throughput and fault tolerance, aligning with the demand for efficient and resilient network connections.</p>	These are minimum specs required and anything better is acceptable
14		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	Switching Bandwidth: Should provide NonBlocking switch fabric capacity of 4 Tbps or more.	<p>Switching Bandwidth: Should provide NonBlocking switch fabric capacity of 3.6 Tbps or more.</p> <p>Justification-As per point No.2.9 - the uplink port count needed is 2 and as such 6-ports are sufficient. Requesting to match the throughput according to the changed uplink interfaces count. Calculation is as mentioned below: (48*25Gb*2)+(6*100Gb*2)=3.6Tb</p>	These are minimum specs required and anything better is acceptable

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15		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	Switch should be capable to use flows from analytics platform to provide security against DDOS mitigation (Additional hardware/software can be quoted to complete the solution)	Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS.. Justification-Switch hardware and software are capable of protecting themselves against various types of security attacks. However, security measures related to endpoints or servers connected to switches should be handled by a dedicated firewall or intrusion prevention system (IPS). Having such capabilities on a switch will impact performance of a switch. Hence requesting for a change in the specification as mentioned	No Change, this is a functional requirement, bidder can propose additional hardware/software/license to complete the solution requirement.
16		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	The product / solution proposed must be deployed in direct consultation with the OEM technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Bidder needs to submit the OEM authorized letter confirming the involvement of professional services for the proposed solution directly from the OEM	The product / solution proposed must be deployed in direct consultation with the OEM/Bidder technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Justification- The Solution is being designed with direct consultation with OEM, however, the implementation will lie in the bidder's scope because Bidder/SI are authorized implementation partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution.	No Change. OEM to propose along with their direct professional services to prepare HLD/LLD and validate & audit the configuration during the implementation stage along with the bidder in front end. This is required as per project criticality and based on previous experience by Tata Power.
17		Technical Specifications for Leaf Switch, with 48 x1/10/ 25G + 8 x QSFP28 Ports	The support must include direct OEM proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Bidder needs to submit the OEM letter / document confirming the OEM services for Day2 operations.	The support must include OEM/Bidder proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Justification-"Cisco TAC is available 24x7 and engages directly with customer for any troubleshooting activity and advisories. Bidder/SI are authorized partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution from Day 2 standpoint. "	No Change. OEM to propose high touch support services along with SPOC for all coordination and facilitation of all TAC cases and technical support provided by OEM directly in consultation with bidder at front end. This is applicable for the duration of full 7years support.
18		Technical Specifications for L2 Access Switch with 24x1G Rj45 POE+ Ports and 4 x 1G SFP	The switch should support 1500 multicast entries / routes or more	The switch should support 1000 multicast entries / routes or more Justification- 1000 Multicast entries support is sufficient as per the given ask. We request the authorities to amend this clause accordingly	These are minimum specs required and anything better is acceptable
19		Technical Specifications for L2 Access Switch with 24x1G Rj45 POE+ Ports	Should have 2500 user configurable active VLANs with 4K VLAN IDs	Should have 1000 user configurable active VLANs with 4K VLAN IDs Justification-1000 Active VLAN's support is sufficient as per the given ask. We request the authorities to amend this clause accordingly	Accepted
20		Technical Specifications for L2 Access Switch with 8x1G Rj45 POE+ Ports	The switch should support 1500 multicast entries / routes or more	The switch should support 1000 multicast entries / routes or more Justification- 1000 Multicast entries support is sufficient as per the given ask. We request the authorities to amend this clause accordingly	These are minimum specs required and anything better is acceptable
21		Technical Specifications for L2 Access Switch with 8x1G Rj45 POE+ Ports and 4 x 1G SFP slots	Should have 2500 user configurable active VLANs with 4K VLAN IDs	Should have 1000 user configurable active VLANs with 4K VLAN IDs Justification-1000 Active VLAN's support is sufficient as per the given ask. We request the authorities to amend this clause accordingly	Accepted

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22		Network Monitoring and Management System	NMS should be virtual / hardware-based appliance on-prem solution from the same OEM providing DC switching solution	Management tool should be virtual / hardware-based appliance on-prem solution for DC switching. Justification-Maintaining separate management platforms for data center networks and enterprise network switches allows for a dedicated and specialized approach to each domain's management needs. This separation ensures that the unique demands of data center networks, with their emphasis on high-performance applications, scalability, and automation, can be addressed with precision. Simultaneously, the enterprise network switches, catering to broader connectivity and user-focused requirements, can benefit from management strategies tailored specifically to their realm. By compartmentalizing management, we enhance the efficiency, agility, and adaptability of both environments, thereby optimizing their respective functionalities and overall performance	The clause stands updated as - "NMS should be virtual / hardware-based appliance on-prem solution from the same OEM providing DC switching solution. The requisite VM / server infra resources shall be provided by the user and pre-requisites for hosting the application shall be shared along with the technical bid submission by the bidder."
23		Network Monitoring and Management System	Must be able to support minimum 100 devices from day 1 and should be scalable to support minimum 2500 devices on the same virtual / physical appliance.	Must be able to support minimum 80 leaf switches from day 1 and should be scalable to support minimum 500 leaf switches. Justification-DC requirement is to have 36 Leaf switches management to start with and considering future scalability to 80 leaf switches should be sufficient.	No Change. This is to keep the scalability for network monitoring and management system to be able to manage multiple network devices from various 3rd party OEM switches not just limiting to the spine and leaf switches connected in the network.
24		Network Monitoring and Management System	The solution must integrate with Orchestration tool and must provide centralized management that should be able to manage, configure, troubleshoot wired components of Data Center as well as Enterprise network including 3rd party OEM's switches in the existing setup to provide single pane of glass manageability.	The solution must integrate with Orchestration tool that should be able to manage, configure, troubleshoot wired components of Data Center and Enterprise network switches separately. Justification-Maintaining separate management platforms for data center networks and enterprise network switches allows for a dedicated and specialized approach to each domain's management needs. This separation ensures that the unique demands of data center networks, with their emphasis on high-performance applications, scalability, and automation, can be addressed with precision. Simultaneously, the enterprise network switches, catering to broader connectivity and user-focused requirements, can benefit from management strategies tailored specifically to their realm. By compartmentalizing management, we enhance the efficiency, agility, and adaptability of both environments, thereby optimizing their respective functionalities and overall performance	No Change. This is to keep the scalability for network monitoring and management system to be able to manage multiple network devices from various 3rd party OEM switches not just limiting to the spine and leaf switches connected in the network.
25		Network Monitoring and Management System	Must be able to create correlated topology based on LLDP , SNMP , STP connectivity hierarchy and Ability to group devices into sites or by other criteria and perform operations on the group	Must be able to create correlated topology based on LLDP , SNMP , STP connectivity hierarchy and Ability to group Data Centre devices into sites or by other criteria and perform operations on the group. Justification-Maintaining separate management platforms for data center networks and enterprise network switches allows for a dedicated and specialized approach to each domain's management needs and hence separate grouping of Data Centre devices and Network Switches is strongly recommended.	No Change. This is a functional requirement, not limited to data center switches.

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26		Network Monitoring and Management System	Must be able to provide history of device attributes, and reports any changes made to the device and also have ability to download firmware to single or multiple devices simultaneously including 3rd party switches.	Must be able to provide history of Data Centre device attributes, and reports any changes made to the Data Centre device and also have ability to download firmware to single or multiple devices simultaneously for proposed Data Centre Switches Only. Justification-Maintaining separate management platforms for data center networks and enterprise network switches allows for a dedicated and specialized approach to each domain's management needs and hence NMS of Data Centre will provide reports and attributed with regards to proposed Data Centre devices only.	No Change. This is a functional requirement, not limited to data center switches.
27		Network Monitoring and Management System	Must have ability to deploy configuration through scripts. custom scripts & Built-in scripts for VLAN Management should be supported, facility to Pre-provision a device connect in network through ZTP.	Must have ability to deploy configuration through scripts, custom scripts for Data Centre Fabric Management to Pre-provision a device connect in network through ZTP/Auto-Provision.	No Change. This is a functional requirement, not limited to data center switches.
28		Network Monitoring and Management System	Must provide the capabilities to modify, filter, and create your own flexible views of the network, Must allow for graphing or viewing in table format and multiple MIBs that are user selectable	Must provide the capabilities to modify, filter, and create your own flexible views of the Enterprise Networking switches platform. Must allow for graphing or viewing in table format and multiple MIBs that are user selectable Justification-Part of Enterprise Network architecture management tool (DNAC). ACI as a platform is DC centric and performance oriented which will provide visibility and reports in its own shape and form. Asked features are more part of Campus LAN requirement. Kindly change to accommodate.	No Change. This is a functional requirement, not limited to data center switches.
29		Network Monitoring and Management System	Must provide application visibility, efficient root cause analysis, shadow IT preventio, Real-Time application insights, application fingerprinting, rich contextual data etc.	Must provide application visibility, efficient root cause analysis, shadow IT preventio, Real-Time application insights, application fingerprinting, rich contextual data etc. for Enterprise Networking Switches platform Justification-Enterprise Network architecture management tool (DNAC) provides application visibility, insights and rich contextual data. ACI as a platform is DC centric and performance oriented which will provide visibility and reports in its own shape and form. However, asked features are more part of Security framework.	No Change, This is a functional requirement for application visibility and insights, not limited to data center switches.
30		Network Monitoring and Management System	Solution should be able to provide deep packet inspection and application visibility for the entire network	Solution should be able to provide deep packet inspection and application visibility for the entire Enterprise Networking Switches platform. Justification-Enterprise Network architecture management tool (DNAC) provides application visibility, insights and rich contextual data. ACI as a platform is DC centric and performance oriented which will provide visibility and reports in its own shape and form. However, asked features are more part of Security framework.	No Change, This is a functional requirement for application visibility and insights, not limited to data center switches.
31		Network Monitoring and Management System	Solution should support to gain Layer 4-7 application visibility using Network-based Application Recognition	Solution should support to gain Layer 4-7 application visibility using Network-based Application Recognition for Enterprise Networking Switches platform. Justification-Part of Enterprise Network architecture management tool. ACI as a platform in DC centric and performance oriented. Asked features are more part of Campus LAN requirement.	No Change, This is a functional requirement for application visibility and insights, not limited to data center switches.

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32		Network Monitoring and Management System	The product / solution proposed must be deployed in direct consultation with the OEM technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Bidder needs to submit the OEM authorized letter confirming the involvement of professional services for the proposed solution directly from the OEM	The product / solution proposed must be deployed in direct consultation with the OEM/Bidder technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Justification- The Solution is being designed with direct consultation with OEM, however, the implementation will lie in the bidder's scope because Bidder/SI are authorized implementation partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution.	No Change. OEM to propose along with their direct professional services to prepare HLD/LLD and validate & audit the configuration during the implementation stage along with the bidder in front end. This is required as per project criticality and based on previous experience by Tata Power.
33		Network Monitoring and Management System	The support must include direct OEM proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Bidder needs to submit the OEM letter / document confirming the OEM services for Day2 operations.	The support must include OEM/Bidder proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Justification- Cisco TAC is available 24x7 and engages directly with customer for any troubleshooting activity and advisories. Bidder/SI are authorized partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution from Day 2 standpoint.	No Change. OEM to propose high touch support services along with SPOC for all coordination and facilitation of all TAC cases and technical support provided by OEM directly in consultation with bidder at front end. This is applicable for the duration of full 7years support.
34		Technical Specifications for Orchestration and Management Tools	Must allow for graphing or viewing in table format and multiple OIDs that are user selectable.	Must allow for graphing or viewing in table format and multiple OIDs that are user selectable in Enterprise Network Switches. Justification-This is usually part of Enterprise Networking Switches solution and hence Orchestration tool for Enterprise Networking Switches will address this but not possible under Data Centre switches.	This clause stands removed
35		Technical Specifications for Orchestration and Management Tools	Must provide a system wide deployment of VLAN configuration and monitoring capabilities.	Must provide a system wide deployment of VLAN / Data Center Fabric configuration and monitoring capabilities. Justification-On DC fabric along with VLAN other parameters are also configured and hence should not be restricted to only VLANs.	This clause stands updated as - "Must provide a system wide deployment of VLAN / Data Center Fabric configuration and monitoring capabilities."
36		Technical Specifications for Orchestration and Management Tools	Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II manageable devices.	Must provide comprehensive remote management support for all proposed Data Centre switches. Justification-DC Fabric managed switches are API driven and not SNMP.	The clause stands updated as - "Solution Must provide comprehensive remote management support for all proposed Data Center devices as well as any SNMP MIB-I or MIB-II manageable devices using Network Orchestration / management tool."
37		Technical Specifications for Orchestration and Management Tools	Must support features to interact with 3rd party network security devices to provide automated response to security events and thus remediating real time threats	Must support features to forward the traffic to 3rd party network security devices for security analytics. Justification-This is part of Security Architecture and not pertaining to DC Switching alone. This is part of NAC framework and hence should be excluded.	The clause stands updated as - "The solution must support integration with 3rd party network security devices and provide centralized automated response to remediate in real time. This is a functional requirement and should be supported via network orchestration / management tool."

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38		Technical Specifications for Orchestration and Management Tools	Must be able to take action based on a predefined security policy, including the ability to notify the intrusion detection system of the actions taken via a SNMPv3 trap (inform)	We request to remove this clause. Justification-This is part of Security Architecture and not pertaining to DC Switching alone. This is part of NAC framework and hence should be excluded.	This clause stands deleted
39		Technical Specifications for Orchestration and Management Tools	Solution should be able to provide deep packet inspection and application visibility for the entire network	We request to remove this clause. Justification - This is part of Security Architecture and not pertaining to DC Solutioning. Request to be removed	This is a functional requirement - This clause stands updated as - "Solution should be able to provide deep packet inspection and application visibility for the entire network via network orchestration / management tool"
40		Technical Specifications for Orchestration and Management Tools	Solution should be able to Gain Layer 4-7 application visibility using Network-based Application Recognition to help identify and improve the performance of business-critical applications	Solution should support to gain Layer 4-7 application visibility using Network-based Application Recognition to help identify and improve the performance of business-critical applications for Enterprise Networking Switches platform. Justification-This is usually part of Enterprise Networking Switching solution and hence Orchestration tool for Enterprise Networking Switches will address this but not possible under Data Centre switches.	This is a functional requirement - this clause stands updated as - "The overall solution for orchestration / management tool must have ability to provide application visibility using NBAR. Bidder to provide appropriate solution to meet the functional requirement along with necessary hardware/software/licenses."
41		Technical Specifications for Orchestration and Management Tools	Solution must be able to recognize minimum 10000 + fingerprints and 6000+ applications. Should also support option to add signature for customized inhouse application.	We request to remove this clause as this is a security feature	No Change, This is a functional requirement for orchestration / management tool - bidder to provide appropriate solution to meet the functional requirement.
42		Technical Specifications for Orchestration and Management Tools	Solution Should be able to categorise usage pattern for individual network locations (eg Storage / DMZ / Data Center / Business Units) in terms of bandwidth, types & name s of application used , network and application performance in real time as well historical output.	Solution Should be able to categorise usage pattern for individual network locations (eg Storage / DMZ / Data Center / Business Units) in terms of bandwidth performance in real time as well historical output. Justification-Orchestration tools does not tell about types and names of applications used.	No Change, This is a functional requirement for orchestration / management tool - bidder to provide appropriate solution to meet the functional requirement along with necessary hardware/software/licenses."
43		Technical Specifications for Orchestration and Management Tools	Helps orchestrate and visualize BGP-EVPN-based 3-stage and5-stage IP Clos and Non-Clos fabrics.	Same as point in Spine/Leaf. Justification-'Benefits: -Non-Clos is not recommended in DC because Clos architecture offers superior scalability, reduced latency, and efficient traffic distribution, making it an ideal choice for optimizing data center network performance. - VxLAN, as it enhances network scalability, enables efficient multi-tenancy, and facilitates seamless workload mobility to support evolving business requirements. - Fabric should support Layer-3 gateway in VxLAN based fabric to fully leverage the benefits of VxLAN/SDN fabric	No Change, the solution should be open to support Non-Clos,3-Clos , 5-Clos architecture on BGP-EVPN IP Fabric, However, bidder is free to propose switches which support additional capabilities.

**Pre Bid Queries for "RC for SITC of Different type of network switches required in TPWODL and TPSODL" against
Tender Enquiry No. TPCODL/CCG/23-24/034**

Sl. No	RFP Page Number	Ref clause	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
44		Technical Specifications for Orchestration and Management Tools	The product / solution proposed must be deployed in direct consultation with the OEM technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Bidder needs to submit the OEM authorized letter confirming the involvement of professional services for the proposed solution directly from the OEM	The product / solution proposed must be deployed in direct consultation with the OEM/Bidder technical team and validating & auditing the configuration HLDs/LLDs during the implementation stage. Justification-The Solution is being designed with direct consultation with OEM, however, the implementation will lie in the bidder's scope because Bidder/SI are authorized implementation partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution.	No Change. OEM to propose along with their direct professional services to prepare HLD/LLD and validate & audit the configuration during the implementation stage along with the bidder in front end. This is required as per project criticality and based on previous experience by Tata Power.
45		Technical Specifications for Orchestration and Management Tools	The support must include direct OEM proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Bidder needs to submit the OEM letter / document confirming the OEM services for Day2 operations.	The support must include OEM/Bidder proactive high touch post sales support services that can support TPWODL for day-to-day technical needs, provide analysis, single point of contact for coordination and facilitation of all TAC cases and technical support. The support team should engage with the TPWODL technical team proactively and reactively during issues for troubleshooting task management, providing root cause and failure analysis and advising on any known product issues and release notes pro-actively along with any technical recommendations. Justification-Cisco TAC is available 24x7 and engages directly with customer for any troubleshooting activity and advisories. Bidder/SI are authorized partner of Cisco and they are capable to do the installation & support of the proposed hardware/solution from Day 2 standpoint.	No Change. OEM to propose high touch support services along with SPOC for all coordination and facilitation of all TAC cases and technical support provided by OEM directly in consultation with bidder at front end. This is applicable for the duration of full 7years support.