

**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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
1		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		The Switch should have thirty two (32x40/100) QSFP28 ports from day one.	The Switch should have thirty two <b>or more</b> (40/100G) QSFP28 ports from day one. <b>Justification:</b> 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		Switch must support buffer of 32MB or more	Switch must support buffer of 80MB or more <b>Justification:</b> 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		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. <b>Justificaton- 'Benefits:</b> -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.

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5		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><b>Justification-</b> 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>	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.
6		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)	<p>Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS.</p> <p><b>Justification-</b> 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</p>	OK
7		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	<p>The product / solution proposed must be deployed in direct consultation with the OEM/Bidder technical team and validating &amp; auditing the configuration HLDs/LLDs during the implementation stage.</p> <p><b>Justification-</b> 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 &amp; support of the proposed hardware/solution.</p>	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

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8		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. <b>Justification-</b> 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		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 <b>6 or more</b> x 40/100G QSFP28 ports from day one. The 100G ports should be breakout capable and support mulirate speeds of 10/25/40/100G. <b>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.</b>	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		Switch must support buffer of 32MB or more	Switch must support buffer of 40MB or more <b>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</b>	No change, bidder is free to quote switch with higher buffer size.
11		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 Layer-3 gateway Capabilities <b>Justification-'Benefits:</b> -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	Refer point no.4 against SPINE Switch Pre-bid query

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12		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><b>Justification-Requesting to include established standard protocols from the RFP to streamline compatibility and security, promoting a more controlled and tailored network environment.</b></p> <p><b>-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.</b></p> <p><b>-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</b></p>	These are minimum specs required and anything better is acceptable
13		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><b>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.</b></p>	These are minimum specs required and anything better is acceptable
14		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><b>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</b></p>	These are minimum specs required and anything better is acceptable

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15		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.. <b>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</b>	No Change, this is a functional requirement, bidder can propose additional hardware/software/license to complete the solution requirement.
16		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. <b>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 &amp; support of the proposed hardware/solution.</b>	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		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. <b>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 &amp; support of the proposed hardware/solution from Day 2 standpoint. "</b>	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		The switch should support 1500 multicast entries / routes or more	The switch should support 1000 multicast entries / routes or more <b>Justification- 1000 Multicast entries support is sufficient as per the given ask. We request the authorities to amend this clause accordingly</b>	These are minimum specs required and anything better is acceptable
19		Should have 2500 user configurable active VLANs with 4K VLAN IDs	Should have 1000 user configurable active VLANs with 4K VLAN IDs <b>Justification-1000 Active VLAN's support is sufficient as per the given ask. We request the authorities to amend this clause accordingly</b>	accepted
20		The switch should support 1500 multicast entries / routes or more	The switch should support 1000 multicast entries / routes or more <b>Justification- 1000 Multicast entries support is sufficient as per the given ask. We request the authorities to amend this clause accordingly</b>	These are minimum specs required and anything better is acceptable

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21		Should have 2500 user configurable active VLANs with 4K VLAN IDs	Should have 1000 user configurable active VLANs with 4K VLAN IDs <b>Justification-1000 Active VLAN's support is sufficient as per the given ask. We request the authorities to amend this clause accordingly</b>	accpeted
22		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. <b>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</b>	NMS should be virtual / hardware-based appliance on-prem solution from the same OEM/Third party providing DC switching solution
23		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. <b>Justification-DC requirement is to have 36 Leaf switches management to start with and considering future scalability to 80 leaf switches should be sufficient.</b>	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		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 exsiting 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. <b>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</b>	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.

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25		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. <b>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.</b>	No Change. This is a functional requirement, not limited to data center switches.
26		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. <b>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.</b>	No Change. This is a functional requirement, not limited to data center switches.
27		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		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 <b>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 accomodate.</b>	No Change. This is a functional requirement, not limited to data center switches.
29		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 <b>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.</b>	No Change, This is a functional requirement for application visibility and insights, not limited to data center switches.

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30		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. <b>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.</b>	No Change, This is a functional requirement for application visibility and insights, not limited to data center switches.
31		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. <b>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.</b>	No Change, This is a functional requirement for application visibility and insights, not limited to data center switches.
32		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. <b>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 &amp; support of the proposed hardware/solution.</b>	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		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. <b>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 &amp; support of the proposed hardware/solution from Day 2 standpoint.</b>	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		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. <b>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.</b>	This clause stands removed



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35		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. <b>Justification-On DC fabric along with VLAN other parameters are also configured and hence should not be restricted to only VLANs.</b>	This clause stands updated as - "Must provide a system wide deployment of VLAN / Data Center Fabric configuration and monitoring capabilities."
36		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. <b>Justification-DC Fabric managed switches are API driven and not SNMP.</b>	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		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. <b>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.</b>	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."
38		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. <b>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.</b>	This clause stands deleted
39		Solution should be able to provide deep packet inspection and application visibility for the entire network	We request to remove this clause. <b>Justification - This is part of Security Architecture and not pertaining to DC Solutioning. Request to be removed</b>	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		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. <b>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.</b>	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."

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41		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	accpeted
42		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. <b>Justification-Orchestration tools does not tell about types and names of applications used.</b>	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		Helps orchestrate and visualize BGP-EVPN-based 3-stage and5-stage IP Clos and Non-Clos fabrics.	Same as point in Spine/Leaf. <b>Justification-'Benefits:</b> -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.
44		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. <b>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 &amp; support of the proposed hardware/solution.</b>	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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
45		<p>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.</p>	<p>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. <b>Justification-Cisco TAC is available 24x7 and engages directly with customer for any troubleshooting activity and advisories. Bidder/Sl are authorized partner of Cisco and they are capable to do the installation &amp; support of the proposed hardware/solution from Day 2 standpoint.</b></p>	<p>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.</p>
46		<p>The Switch should have thirty two <b>or more</b> (40/100G) QSFP28 ports from day one.</p>	<p>Increasing the port count on spine switches to accommodate the growing network demands, facilitate connectivity ensuring the required scalability to support future growth</p>	<p>The clause stands updated as - "The Switch should have 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.</p>
47		<p>Switch must support buffer of 80MB or more</p>	<p>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</p>	<p>These are minimum specs required and anything better is acceptable</p>

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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
48		Solution should support Clos architecture on BGP-EVPN IP Fabric with VxLAN with Layer-3 gateway Capabilities	Benefits: <b>-Non-Clos is not recommended in DC because</b> 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	These are minimum specs required and anything better is acceptable
49		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	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	These are minimum specs required and anything better is acceptable
50		Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS.	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.
51		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.	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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
52		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.	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.
53		The Switch should have fourty Eight ( 48x1/10/25G SFP28) and <b>6 or more</b> x 40/100G QSFP28 ports from day one. The 100G ports should be breakout capable and support mulirate speeds of 10/25/40/100G	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.	query is not clear
54		Switch must support buffer of 40MB or more	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	These are minimum specs required and anything better is acceptable
55		Solution should support Clos architecture on BGP-EVPN IP Fabric with VxLAN with Layer-3 gateway Capabilities	<b>Benefits:</b> <b>-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.</b> <b>- VxLAN, as it enhances network scalability, enables efficient multi-tenancy, and facilitates seamless workload mobility to support evolving business requirements.</b> <b>- Fabric should support Layer-3 gateway in VxLAN based fabric to fully leverage the benefits of VxLAN/SDN fabric</b>	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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
56		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	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.
57		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.	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.	The clause stands updated as - "The Leaf switches should be supplied with minimum 8 nos of 10G MM transceivers (specifically 10G SR supporting FCOE or equivalent / data center interconnects) 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-leafs or leaf-leaf for cluster respectively from Day-1."
58		Switching Bandwidth: Should provide NonBlocking switch fabric capacity of 3.6 Tbps or more.	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: $(48*25Gb*2)+(6*100Gb*2)=3.6Tb$	No Change, this is a functional requirement and all major OEMs have products that support the required port count / fabric capacity. Bidder is free to propose switches which have higher port count / fabric capacity.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
59		Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS.	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.
60		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.	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
61		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.	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.
62		The switch should support 1000 multicast entries / routes or more	1000 Multicast entries support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
63		Should have 1000 user configurable active VLANs with 4K VLAN IDs	1000 Active VLAN's support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable
64		The switch should support 1000 multicast entries / routes or more	1000 Multicast entries support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable
65		Should have 1000 user configurable active VLANs with 4K VLAN IDs	1000 Active VLAN's support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable
66		Management tool should be virtual / hardware-based appliance on-prem solution for DC switching	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."
67		Must be able to support minimum 80 leaf switches from day 1 and should be scalable to support minimum 500 leaf switches.	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.



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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
68		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.	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.
69		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.	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.
70		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.	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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
71		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.		query is not clear
72		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	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.
73		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	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.
74		Solution should be able to provide deep packet inspection and application visibility for the entire Enterprise Networking Switches platform	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. Howeve, 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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
75		Solution should support to gain Layer 4-7 application visibility using Network-based Application Recognition for Enterprise Networking Switches platform.	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.
76		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.	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.
77		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 proactively along with any technical recommendations.	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.
78		Must allow for graphing or viewing in table format and multiple OIDs that are user selectable in Enterprise Network Switches.	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 deleted

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
79		Must provide a system wide deployment of VLAN / Data Center Fabric configuration and monitoring capabilities.	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."
80		Must provide comprehensive remote management support for all proposed Data Centre switches.	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."
81		Must support features to forward the traffic to 3rd party network security devices for security analytics.	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."
82		Need to remove.	This is part of Security Architecture and not pertaining to DC Switching alone. This is part of NAC framework and hence should be excluded.	query is not clear
83		Need to remove.	This is part of Security Architecture and not pertaining to DC Solutioning. Request to be removed	query is not clear

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
84		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.	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."
85		Kindly remove	Security feature	query is not clear
86		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.	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."
87		Same as point in Spine/Leaf	Benefits: - <b>Non-Clos is not recommended in DC because</b> 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.
88		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.	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

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
89		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.	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.	Already replied
90		Orchestration and Management solution must be from the same OEM providing data center switching solution.		No query
91		Solution should be virtual appliance based or hardware based on-prem solution (no cloud based solution to be offered)		No query
92		Must be able to support minimum 50 devices and should be scalable to support minimum 250 switches on the same virtual/hardware appliance.		No query
93		Must be able to create correlated topology based on LLDP/SNMP/STP connectivity hierarchy		No query
94		Must provide centralized management that should be able to manage wired components		No query
95		Must allow system-level operations such as device discovery, event management, logging and application maintenance to be performed centrally.		No query
96		Must provide the capabilities to modify, filter, and create your own flexible views of the network.		No query
97		Must allow for graphing or viewing in table format and multiple OIDs that are user selectable.	SNMP OIDs is legacy and have limitations. Nokia solution uses Open standard, programmable & scalable YANG models. Nokia recommend to remove this clause	This clause stands deleted
98		Must allow scheduled events or tasks that the user can perform behind the scenes or schedule an event for another time in the future.		No query
99		Must provide a system wide deployment of VLAN configuration and monitoring capabilities.		No query

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
100		Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II manageable devices.	SNMP OIDs is legacy and have limitations. Nokia solution uses Open standard, programmable & scalable YANG models. Nokia recommend to change this clause as below to allow alternative "Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II or equivalent manageable devices."	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."
101		Must have SNMP MIB compile capability to integrate any snmp compliant device	SNMP OIDs is legacy and have limitations. Nokia solution uses Open standard, programmable & scalable YANG models. Nokia recommend to remove this clause	No query
102		Must be able to define policies to rate-limit bandwidth, prioritize based on Layer 2 or Layer 3 QoS mechanisms, trigger pre-defined actions		No query
103		Must support features to interact with 3rd party network security devices to provide automated response to security events and thus remediating real time threats	We request to share the more details on use case and Interface using which orchastrator expect to interact	The clause stands updated as - "The solution must support integration with 3rd party network security devices and provide centralized automated response to remidiate in real time. This is a functional requirement and should be supported via network orchestation / management tool."
104		Must provide an audit trail (event log).		No query
105		Must allow IT administrators to easily define a number of preconfigured network policies, and designate select personnel to activate/deactivate these policies as appropriate		No query
106		Must provide a detailed inventory of products organized by device type.		No query
107		Must provide the ability to track device attributes such as serial number, firmware version, CPU type, and memory.		No query
108		Must support the ability to present detailed configuration information including date and time of configuration saves, firmware version, and file size.		No query
109		Must record a history of device attributes, and reports any changes made to the device.		No query
110		Must be able to provide a history of firmware and configuration changes made to a device.		No query

**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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
111		Must provide a centralized history of inventory management operations.		No query
112		Must be able to generate valuable, in-depth reports for network inventory for planning purposes.		No query
113		Must support the ability to download firmware to single or multiple devices simultaneously.		No query
114		Must be able to schedule routine device configuration back-ups.		No query
115		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).		No query
116		Must provide information on Device Statistics and Characteristics		No query
117		Must provide information on successful packet deliver and latency in the network		No query
118		Must provide information on interface activity and packet loss		No query
119		Must provide a web interface that contains reporting, dashboards, troubleshooting and monitoring tools.		No query
120		Must provide web-based flexible view, device views, and event logs for DC fabric		No query
121		Must provide port level analysis capability	Need more details	The clause stands updated as - Solution must provide port level analysis capability using network orchestration / management tool."
122		Must provide customizable reports		No query
123		Must be able to write Python scripts/TCL scripts	Need more details on use case	The clause stands updated as- "Solution must be able to write Python scripts/TCL scripts using network orchestration / management tool."
124		Should have the ability to get actionable business insights and speeding up troubleshooting by separating network from application performance so you can quickly identify root-causes, reports malicious or unwanted applications, and assesses security compliance		No query



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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
125		Solution should be supplied with appliance supporting necessary hardware/ sensors to fulfil the requirement		No query
126		Solution should be based on unsampled flow/Application telemetry and data collection so as to give accurate reports and stat analysis.		No query
127		Solution should be able to provide deep packet inspection and application visibility for the entire network.	The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, this is a functional requirement, bidder can propose additional hardware/software to complete the solution requirement.
128		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	The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, this is a functional requirement, bidder can propose additional hardware/software to complete the solution requirement.
129		Solution should troubleshoot performance problems consistently using application telemetry	The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, this is a functional requirement, bidder can propose additional hardware/software to complete the solution requirement.
130		Solution must be equipped with prepackaged dashboards, interactive and customizable reports to enhance operational efficiency		No query
131		Solution must be able to recognize minimum 10000 + fingerprints and 6000+ applications. Should also support option to add signature for customized inhouse application.	The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, This is a functional requirement for orchestration / management tool - bidder to provide appropriate solution to meet the functional requirement.
132		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.		No query
133		Fabric solution should provides the secure credential store and deep discovery of physical and logical assets of the managed devices, and publishes the Asset refresh and change events to other services		No query
134		Helps orchestrate and visualize BGP-EVPN-based 3-stage and5-stage IP Clos and Non-Clos fabrics.		No query

**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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
135		Helps manage the Tenants, Tenant Networks, and end points, fully leveraging the knowledge of Assets and the under lying fabric.		No query
136		Notification Service-Sends events, alerts, and task updates to external entities.		No query
137		system utilities such as support-save, backup, and restore		No query
138		Acts as an inventory of all the necessary physical and logical assets of the fabric devices. All other EFA services rely on inventory service asset data for their respective configuration automation.	Need more details on use case	The clause stands updated as - "The orchestration tool must act as an inventory of all the necessary physical and logical assets of the fabric devices. All other fabric services rely on inventory service asset data for their respective configuration automation."
139		Fabric provisioning for Day 0 infrastructure - BGP underlay, BGP/EVPN overlay with VXLAN; create, update and delete switches within the fabric and Day N for provisioning vlans, port channel, VRF etc.		No query
140		All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 5 years and support contract must be shared/Submit with the Bid.		No query
141		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		query is not clear

**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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
142		<p>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 proactively along with any technical recommendations. Bidder needs to submit the OEM letter / document co</p>		query is not clear
143		<p>Hope this is Maximum IGMP and PIM Replications in Multicast VPRN, we support 8K. And Maximum unique IPv4 multicast groups per node 1K.</p>		These are minimum specs required and anything better is acceptable
144			<p>If all 24 RJ45 ports need to support POE, PoE power output should be 720 Watts.</p>	These are minimum specs required and anything better is acceptable

**Pre Bid Queries for "RC for SITC of Different type of network switches required in TPWODL and TPSODL" against  
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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
145			We are not in Gartner Magic Quadrant. Insdead we are on "Dell'oro" and leader in Edge Routing market globally. We do have our TAC centre in India AND ALSO 24X7 tac SUPPORT WITH Indian Toll-free number -reflected in official website/documents.	removed
146			We are not in Gartner Magic Quadrant. Insdead we are on "Dell'oro" and leader in Edge Routing market globally. We do have our TAC centre in India AND ALSO 24X7 tac SUPPORT WITH Indian Toll-free number -reflected in official website/documents.	removed
147	<b>1.7 Qualificaion Criteria</b>		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 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 / or the bidder having MSME registered in Odisha shall have 20% of existing criteria for work experiense clause.	Will be as per NIT.
148	<b>New Point</b>		The devices installation is one time activity, in case the reinstallation is required it will be done on charagable basis.	accepted

**Pre Bid Queries for "RC for SITC of Different type of network switches required in TPWODL and TPSODL" against  
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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
149	7.3 Delivery Terms		Kindly amend this clause as " The devices should be delivered with in 14-16 weeks from order issuance date and installation of the same should be done in 2 week from the date of intimation. Due to globally Shortage of Components device Manufacturing is Impact Badly. We request you to change this clause.	12 Week from the Date of Release of RO
150	Payment Terms		Kindly amend as " 80% Payment shall be release within 45days against delivery and rest 20% will be released after complete installation.	" 60% Payment shall be released within 45days against delivery and rest 40% will be released after complete installation.
151	Scope of Work (K)		here we only consider Switches end SFP or fiber cable/ Cat 6 cable for interconnecting Switch to Switches, for Server to Switches connectivity cables & SFP of Server end will be provided by client.	Server SFP will be provided by TP odisha discoms any OFC, Cat 6 and power cables to be supplied by Bidder
152	30 of 293	The Switch should have thirty two (32x40/100) QSFP28 ports from day one. The 100G ports should be	The complete specs are missing, Please amend the clause as - "The Switch should have 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"	The clause stands updated as - "The Switch should have 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"
153	31 of 293	NETCONF API	For meeting the functional requirement - Please amend the clause as- "NETCONF / REST API/YANG Model/ Python Scripting"	The clause stands updated as - "NETCONF / REST API/YANG Model/ Python Scripting"
154	31 of 293	REST API with YANG data model	For meeting the functional requirement - Please amend the clause as- "NETCONF / REST API/YANG Model/ Python Scripting"	The clause stands updated as - "NETCONF / REST API/YANG Model/ Python Scripting"

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
155	32 of 293	Random Early Discard	For meeting the functional requirement - Please amend the clause as - "WRED/Random Early Discard"	The clause stands updated as - "WRED/Random Early Discard"
156	32 of 293	Switch should be quoted with TAC Support and Warranty for 7 years	Request you to please confirm if necessary support is required for licenses as well. If Yes, Please amend the clause as - "Switch along with all licenses should be quoted with TAC Support and Warranty for 7 years with NBD Hardware Replacement."	The clause stands updated as - "Switch along with all licenses should be quoted with TAC Support and Warranty for 7 years with NBD Hardware Replacement."
157	36 of 293	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	For meeting the functional requirement and making the clause generic - Please amend the clause as - "The Leaf switches should be supplied with minimum 8 nos of 10G MM transceivers (specifically 10G SR supporting FCOE or equivalent / data center interconnects) 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 leafs or leaf-leaf for cluster respectively from Day 1	The clause stands updated as - The Leaf switches should be supplied with minimum 8 nos of 10G MM transceivers (specifically 10G SR supporting FCOE or equivalent / data center interconnects) and additionally should be supplied with 2 no. 40G DAC / AOC cable (20m] and 2no. 40G DAC / AOC cable (10m] and 2no.
158	37 of 293	NETCONF API	For meeting the functional requirement - Please amend the clause as - "NETCONF / REST API/YANG Model/ Python Scripting"	The clause stands updated as - "NETCONF / REST API/YANG Model/ Python Scripting"
159	37 of 293	REST API with YANG data model	For meeting the functional requirement - Please amend the clause as - "NETCONF / REST API/YANG Model/ Python Scripting"	The clause stands updated as - "NETCONF / REST API/YANG Model/ Python Scripting"
160	38 of 293	Random Early Discard	For meeting the functional requirement - Please amend the clause as - "WRED/Random Early Discard"	The clause stands updated as - "WRED/Random Early Discard"
161	38 of 293	Switch should be quoted with TAC Support and Warranty for 7 years	Request you to please confirm if necessary support is required for licenses as well. If Yes, Please amend the clause as - "Switch along with all licenses should be quoted with TAC Support and Warranty for 7 years with NBD Hardware Replacement."	The clause stands updated as - "Switch along with all licenses should be quoted with TAC Support and Warranty for 7 years with NBD Hardware Replacement."
162	46 of 293	NMS should be virtual / hardware-based appliance on-prem solution from the same OEM providing DC switching solution	We understand - the requisite VM / server infra resources shall be provided by the client and pre-requisites for hosting the application shall be shared along with the technical bid submission. Please confirm.	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 client and pre-requisites for hosting the application shall be shared along with the technical bid submission by the partner / bidder."

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
163	46 of 293	All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 5 years and support contract must be shared/Submit with the Bid.	The RFP mentions the support warranty as 7 years, Please amend the clause as - "All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 7 years (including associated licenses) and support contract must be shared/Submit with the Bid."	The clause stands updated as - "All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 7 years (including associated licenses) and support contract must be shared/Submit with the Bid."
164	47 of 293	Orchestration and Management solution must be from the same OEM providing data center switching solution.	Since every vendor will have their own sizing requirement and hardware, software needs to host required orchestration application, it is important that the required hardware, software, licenses to come along as part of the bidders solution & scope.  Please amend the clause as - "Orchestration/ Management solution must be from the same OEM providing data center switching solution including all necessary underlying hardware, software, licenses with support to be provided by the bidder / OEM as part of on-prem solution."	The clause stands updated as - "Orchestration/ Management solution must be from the same OEM providing data center switching solution including all necessary underlying hardware, software, licenses with support to be provided by the bidder / OEM as part of on-prem solution."
165	47 of 293	Must be able to support minimum 50 devices and should be scalable to support minimum 250 switches on the same virtual/hardware appliance.	To meet the functional and scalability requirement and integration with other discoms, please confirm if bidder need to propose the complete solution day-1, If Yes, Please amend the clause as- "Must be able to support minimum 50 switches/nodes and should be scalable to support upto 250 switches/nodes on the same virtual/hardware cluster. The necessary underlying infrastructure for meeting the scalability requirement to be provided by OEM day1."	The clause stands updated as - "Must be able to support minimum 50 switches/nodes and should be scalable to support upto 250 switches/nodes on the same virtual/hardware cluster. The necessary underlying infrastructure for meeting the scalability requirement to be provided by OEM day1."
166	47 of 293	Must provide centralized management that should be able to manage wired components	To meet the functional requirement and manage DC fabric and other switching infra - Please amend the clause as- "Must provide centralized management via Fabric that should be able to manage Spine and Leaf switches for Multiple sites in various PODs. Should provide remote DC integration or switches / fabric extension to multiple remote locations across geographical boundaries using BGP/EVPN."	The clause stands updated as - "Must provide centralized management via Fabric that should be able to manage Spine and Leaf switches for Multiple sites in various PODs. Should provide remote DC integration or switches / fabric extension to multiple remote locations across geographical boundaries using BGP/EVPN."

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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
167	47 of 293	Must allow system-level operations such as device discovery, event management, logging and application maintenance to be performed centrally.	To make the requirement generic - Please amend the clause as - "The overall management / orchestration solution must allow system-level operations such as device discovery, event management, logging and application maintenance to be performed centrally."	The clause stands updated as - "The overall management / orchestration solution must allow system-level operations such as device discovery, event management, logging and application maintenance to be performed centrally."
168	47 of 293	Must allow for graphing or viewing in table format and multiple OIDs that are user selectable.	For wider participation from multiple OEMs, Request to kindly remove this clause. No OEM will have this format.	removed
169	47 of 293	Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II manageable devices.	To meet the functional requirement - Please amend the clause as - "Solution Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II manageable devices using Network Orchestration / management tool."	The clause stands updated as - "Solution Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II manageable devices using Network Orchestration / management tool."
170	47 of 293	Must have SNMP MIB compile capability to integrate any snmp compliant device	To meet the functional requirement - Please amend the clause as - "Solution must have SNMP MIB compile capability to integrate any snmp compliant device using Network Orchestration / management tool."	The clause stands updated as - "Solution must have SNMP MIB compile capability to integrate any snmp compliant device using Network Orchestration / management tool."
171	47 of 293	Must be able to define policies to rate-limit bandwidth, prioritize based on Layer 2 or Layer 3 QoS mechanisms, trigger pre-defined actions	To meet the functional requirement - Please amend the clause as - "Solution must be able to define policies to rate-limit bandwidth, prioritize based on Layer 2 or Layer 3 QoS mechanisms, trigger pre-defined actions using Network Orchestration / management tool."	The clause stands updated as - "Solution must be able to define policies to rate-limit bandwidth, prioritize based on Layer 2 or Layer 3 QoS mechanisms, trigger pre-defined actions using Network Orchestration / management tool."
172	47 of 293	Must allow IT administrators to easily define a number of preconfigured network policies, and designate select personnel to activate/deactivate these policies as appropriate	To meet the functional requirement - Please amend the clause as - "Solution must allow IT administrators to easily define a number of preconfigured network policies, and designate select personnel to activate/deactivate these policies as appropriate using Network Orchestration / management tool."	The clause stands updated as - "Solution must allow IT administrators to easily define a number of preconfigured network policies, and designate select personnel to activate/deactivate these policies as appropriate using Network Orchestration / management tool."



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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
173	47 of 293	Must provide the ability to track device attributes such as serial number, firmware version, CPU type, and memory.	To meet the functional requirement - Please amend the clause as - "Solution Must provide the ability to track device attributes such as serial number/ firmware version/ CPU type/ memory using Network orchestration / management tool."	The clause stand updated as - "Solution Must provide the ability to track device attributes such as serial number/ firmware version/ CPU type/ memory using Network orchestration / management tool."
174	47 of 293	Must support the ability to present detailed configuration information including date and time of configuration saves, firmware version, and file size.	To meet the functional requirement - Please amend the clause as - "Solution must support the ability to present detailed configuration information including date and time of configuration saves, firmware version, and file size using Network orchestration / management tool."	The clause stands updated as - "Solution must support the ability to present detailed configuration information including date and time of configuration saves, firmware version, and file size using Network orchestration / management tool."
175	47 of 293	Must record a history of device attributes, and reports any changes made to the device.	To meet the functional requirement - Please amend the clause as - "solution must record a history of device attributes, and reports any changes made to the device using Network orchestration / management tool"	The clause stands updated as - "solution must record a history of device attributes, and reports any changes made to the device using Network orchestration / management tool"
176	47 of 293	Must be able to provide a history of firmware and configuration changes made to a device.	To meet the functional requirement - Please amend the clause as - "Soltuion must be able to provide a history of firmware and configuration changes made to a device using Network orchestration / management tool."	The clause stands updated as - "Soltuion must be able to provide a history of firmware and configuration changes made to a device using Network orchestration / management tool."
177	47 of 293	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-).	Since Intrusion detection is primarily from security side on Firewall / IPS, there is no relevance of putting this clause in orchestration /switch layer. This Clause is not part of All Switch OEM . Request to kindly remove this clause for wider participation from all OEMs.	removed
178	48 of 293	Must provide information on successful packet deliver and latency in the network	To meet the functional requirement - Please amend the clause as - "Solution must provide information on successful packet deliver and latency in the network using network orchestration / management tool."	The clause stands updated as - "Solution must provide information on successful packet deliver and latency in the network using network orchestration / management tool."
179	48 of 293	Must provide a web interface that contains reporting, dashboards, troubleshooting and monitoring tools.	To meet the functional requirement - Please amend the clause as - "Solution must provide a web interface that contains reporting, dashboards, troubleshooting and monitoring tools using Network orchestration / management tool."	The clause stands updated as - "Solution must provide a web interface that contains reporting, dashboards, troubleshooting and monitoring tools using Network orchestration / management tool."

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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
180	48 of 293	Must provide web-based flexible view, device views, and event logs for DC fabric	To meet the functional requirement - Please amend the clause as - "Solution must provide web-based flexible view, device views, and event logs for DC fabric using network orchestration / management tool."	The clause stands updated as - "Solution must provide web-based flexible view, device views, and event logs for DC fabric using network orchestration / management tool."
181	48 of 293	Must provide port level analysis capability	To meet the functional requirement - Please amend the clause as - "Solution must provide port level analysis capability using network orchestration / management tool."	The clause stands updated as - "Solution must provide port level analysis capability using network orchestration / management tool."
182	48 of 293	Must provide customizable reports	To meet the functional requirement - Please amend the clause as - "Solution must provide customizable reports using network orchestration / management tool."	The clause stands updated as - "Solution must provide customizable reports using network orchestration / management tool."
183	48 of 293	Must be able to write Python scripts/TCL scripts	To meet the functional requirement - Please amend the clause as - "Solution must be able to write Python scripts/TCL scripts using network orchestration / management tool."	The clause stands updated as - "Solution must be able to write Python scripts/TCL scripts using network orchestration / management tool."
184	48 of 293	Should have the ability to get actionable business insights and speeding up troubleshooting by separating network from application performance so you can quickly identify root-causes, reports malicious or unwanted applications, and assesses security compliance	As this is a functional requirement as part of solution to ensure root-causes and assess security compliances and application visibility. Please allow the bidder to provide the functionality which can be achieved via NMS or even 3rd party solution can be quoted along with licenses and support and it shall be is acceptable.	The clause stands updated as - "Should have the ability to get actionable business insights and speeding up troubleshooting by separating network from application performance so you can quickly identify root-causes, reports malicious or unwanted applications, and assesses security compliance. Bidder can provide solution which can meet the functional requirement via NMS or even 3rd party solution along with licenses and support and it shall be is acceptable."
185	48 of 293	Solution should be supplied with appliance supporting necessary hardware/ sensors to fulfil the requirement	The sensors / hardware are not relevant in the data center solution, it is primarily for the security scope, Request to kindly remove this clause for wider participation from all OEMs.	removed
186	48 of 293	Helps manage the Tenants, Tenant Networks, and end points, fully leveraging the knowledge of Assets and the under lying fabric.	This is the typical requirement of hypervisor management suite, and not part of the network infrastructure or management, Request to kindly remove this clause for wider participation from all OEMs. No Network OEM will have this feature which is not relevant as per Switch Vendor / OEM.	removed

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
187	48 of 293	Acts as an inventory of all the necessary physical and logical assets of the fabric devices. All other EFA services rely on inventory service asset data for their respective configuration automation.	To make the clause generic - Please amend the clause as - "The orchestration tool must act as an inventory of all the necessary physical and logical assets of the fabric devices. All other fabric services rely on inventory service asset data for their respective configuration automation."	The clause stands updated as - "The orchestration tool must act as an inventory of all the necessary physical and logical assets of the fabric devices. All other fabric services rely on inventory service asset data for their respective configuration automation."
188	49 of 293	All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 5 years and support contract must be shared/Submit with the Bid.	The RFP mentions the support warranty as 7 years, Please amend the clause as - "All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 7 years (including associated licenses) and support contract must be shared/Submit with the Bid."	The clause stands updated as - "All categories of Switches, Transceivers, AOC & DAC cables, Switch OS and Fabric orchestration and Management tool should be from same OEM for better integration and should be quoted with 24x7 OEM TAC Support and Warranty for 7 years (including associated licenses) and support contract must be shared/Submit with the Bid."
189	1.7		We request you to kindly reduce the order value to 1 order of 10 Cr , 2 orders of 5 Cr and 3 orders of 2.5 Cr.	Will be as per NIT.
190	1.7		By looking at the SLAs & Timeline mentioned in scope of work, we request you to kindly remove the local tie up clause & request you to kindly amend it as bidders must have atleast 15 manpower present in the company payroll & must be deployed in the end customer location / state.	No change

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Tender Enquiry No. TPCODL/CCG/23-24/034**

Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
191	Delivery Time		We request you to kindly amend it as devices should be delivered within 14 to 16 weeks from order issuance date and installation of the same should be done in 3 weeks from the date of intimaion.	12 Week from the Date of Release of RO
192			We Request you to kindly give relaxation to MSME vendors of Odisha on experience criteria.	Will be as per NIT.
193			SNMP OIDs is legacy and have limitations. Nokia solution uses Open standard, programmable & scalable YANG models. Nokia recommend to remove this clause	removed
194		SNMP OIDs is legacy and have limitations. Nokia solution uses Open standard, programmable & scalable YANG models. Nokia recommend to change this clause as below to allow alternative "Must provide comprehensive remote management support for all proposed network devices as well as any SNMP MIB-I or MIB-II or equivalent manageable devices."		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."

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
195			SNMP OIDs is legacy and have limitations. Nokia solution uses Open standard, programmable & scalable YANG models. Nokia recommend to remove this clause	removed
196			We request to share the more details on use case and Interface using which orchastrator expect to interact	The clause stands updated as - "The solution must support integration with 3rd party network security devices and provide centralized automated response to remidiate in real time. This is a functional requirement and should be supported via network orchestation /
197		Need more details		query is not clear
198		Need more details on use case		query is not clear
199			The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, this is a functional requirement, bidder can propose additional hardware/software to complete the solution requirement.
200			The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, this is a functional requirement, bidder can propose additional hardware/software to complete the solution requirement.

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	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
201			The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, this is a functional requirement, bidder can propose additional hardware/software to complete the solution requirement.
202			The standard Leaf & Spine provides visibility upto layer2-4 traffic. We request to remove this clause	No Change, This is a functional requirement for orchestration / management tool - bidder to provide appropriate solution to meet the functional requirement.
203			Need more details on use case	query is not clear
204			Hope this is Maximum IGMP and PIM Replications in Multicast VPRN, we support 8K. And Maximum unique IPv4 multicast groups per node 1K.	query is not clear
205			If all 24 RJ45 ports need to support POE, PoE power output should be 720 Watts.	These are minimum specs required and anything better is acceptable
206			We are not in Gartner Magic Quadrant. Instead we are on "Dell'oro" and leader in Edge Routing market globally. We do have our TAC centre in India AND ALSO 24X7 tac SUPPORT WITH Indian Toll-free number -reflected in official website/documents.	removed

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
207			We are not in Gartner Magic Quadrant. Instead we are on "Dell'oro" and leader in Edge Routing market globally. We do have our TAC centre in India AND ALSO 24X7 tac SUPPORT WITH Indian Toll-free number -reflected in official website/documents.	removed
208	Page - 30	The Switch should have thirty two or more (40/100G) QSFP28 ports from day one.	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 thirty two (32x40/100) QSFP28 ports from day one. The 100G ports should be breakout capable and support multiple 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.
209	Page - 30	Switch must support buffer of 80MB or more	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	No change, bidder is free to quote switch with higher buffer size.
210	Page - 30	Solution should support Clos architecture on BGP-EVPN IP Fabric with VxLAN with Layer-3 gateway Capabilities	Benefits: <b>-Non-Clos is not recommended in DC because</b> 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.
211	Page - 30	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	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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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
212	Page - 31	Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS.	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.
213	Page - 32	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.	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.
214	Page - 32	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.	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.
215	Page -36	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	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.



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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
216	Page -36	Switch must support buffer of 40MB or more	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.
217	Page -36	Solution should support Clos architecture on BGP-EVPN IP Fabric with VxLAN with Layer-3 gateway Capabilities	Benefits: <b>-Non-Clos is not recommended in DC because</b> 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.
218	Page -36	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	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.
219		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.	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.	The clause stands updated as - "The Leaf switches should be supplied with minimum 8 nos of 10G MM transceivers (specifically 10G SR supporting FCOE or equivalent / data center interconnects) 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-leafs or leaf-leaf for cluster respectively from Day-1."
220	Page -36	Switching Bandwidth: Should provide NonBlocking switch fabric capacity of 3.6 Tbps or more.	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: $(48*25Gb*2)+(6*100Gb*2)=3.6Tb$	No Change, this is a functional requirement and all major OEMs have products that support the required port count / fabric capacity. Bidder is free to propose switches which have higher port count / fabric capacity.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
221	Page -37	Proposed switch should have capabilities to secure itself against various security attacks like DoS/DDOS.	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.
222	Page -38	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.	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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
223	Page -38	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.	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.
224	Page -43	The switch should support 1000 multicast entries / routes or more	1000 Multicast entries support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable
225	Page -43	Should have 1000 user configurable active VLANs with 4K VLAN IDs	1000 Active VLAN's support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable.
226	Page -43	The switch should support 1000 multicast entries / routes or more	1000 Multicast entries support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable
227	Page -43	Should have 1000 user configurable active VLANs with 4K VLAN IDs	1000 Active VLAN's support is sufficient as per the given ask. Plz modify	These are minimum specs required and anything better is acceptable

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
228	Page 46	Management tool should be virtual / hardware-based appliance on-prem solution for DC switching	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."
229	Page 46	Must be able to support minimum 80 leaf switches from day 1 and should be scalable to support minimum 500 leaf switches.	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.
230	Page 46	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.	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.
231	Page 46	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.	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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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
232	Page 46	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.	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.
233	Page 46	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.
234	Page 46	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	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.
235	Page 46	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	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.
236	Page 46	Solution should be able to provide deep packet inspection and application visibility for the entire Enterprise Networking Switches platform	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. Howeve, 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.

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
237	Page 46	Solution should support to gain Layer 4-7 application visibility using Network-based Application Recognition for Enterprise Networking Switches platform.	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.
238	Page 46	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.	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.
239	Page 46	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.	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.
240	Page 47	Must allow for graphing or viewing in table format and multiple OIDs that are user selectable in Enterprise Network Switches.	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 deleted
241	Page 47	Must provide a system wide deployment of VLAN / Data Center Fabric configuration and monitoring capabilities.	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."

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
242	Page 47	Must provide comprehensive remote management support for all proposed Data Centre switches.	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."
243	Page 47	Must support features to forward the traffic to 3rd party network security devices for security analytics.	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."
244	Page 47	Need to remove.	This is part of Security Architecture and not pertaining to DC Switching alone. This is part of NAC framework and hence should be excluded.	query is not clear
245	Page 48	Need to remove.	This is part of Security Architecture and not pertaining to DC Solutioning. Request to be removed	query is not clear
246	Page 48	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.	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."

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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
247	Page 48	Kindly remove	Security feature	query is not clear
248	Page 48	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.	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."
249	Page 48	Same as point in Spine/Leaf	Benefits: <b>-Non-Clos is not recommended in DC because</b> 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.
250	Page 49	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.	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.



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Sl. No	RFP Page Number	Description as per Bid Document	Remarks - Query / Clarification	TP ODISHA Response
251	Page 49	<p>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.</p>	<p>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 &amp; support of the proposed hardware/solution from Day 2 standpoint.</p>	<p>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.</p>