

Response of Pre-Bid queries received against tender no. RailTel/Tender/OT/CO/Project/2024-25/ Store Imprest/015 dated 25.09.2024

SN	Clause No	Page Number	Clause/ Content of Clause	Query/Suggestion	Query response
1	2.4 (11)	63	System shall be built in such a manner that it should work with existing DWDM network based on above parameters and supplied SDN Controller should provide latest APIs, which shall further facilitate multivendor interoperability. System shall support configuration management, open APIs, and standards-based SNMP/YANG models. These management features should be available at no cost to RailTel.	SDN based networks are not of much benefits for DWDM based networks and that too without ASON/GMPLS. Also, big Tier-1 operators are struggling to make the full use of SDN based networks as interoperability is still an issue and deployed SDN networks need big engineering teams to continuously develop APIs. Latest TEC GR for NMS systems-TEC-SD-IT-EMT-001-01-MAR-16 does not refer to SDN at any level. Also, This clause is a restrictive clause and may impact the participation of Indian OEM's in the bid. Hence, request Railtel to remove the clause.	Query response: Please see Corrigendum-IV
2	2.4 (12)	64	The proposed system shall be managed by a single unified system/Controller with DC & DR (active and standby) for all the active components. Bidder shall also propose Open Controller (Multi-vendor) based Management System for managing system with DC & DR (active and standby). All licenses required for Northbound and Southbound interface (API) should be equipped with offered solution at no additional cost to RailTel. Bidder/OEM can also leverage existing Management system deployed in RailTel, if the OEM shall provide Undertaking for long term support for 8 years for all existing components irrespective of End of Life of the existing hardware/License/Software. Hardware/License/Software required for such up gradation shall be included in the price bid.	SDN based networks are not of much benefits for DWDM based networks and that too without ASON/GMPLS. Also, big Tier-1 operators are struggling to make the full use of SDN based networks as interoperability is still an issue and deployed SDN networks need big engineering teams to continuously develop APIs. Latest TEC GR for NMS systems-TEC-SD-IT-EMT-001-01-MAR-16 does not refer to SDN at any level. Also, This clause is a restrictive clause and may impact the participation of Indian OEM's in the bid. Hence, request Railtel to remove the clause.	Query response: Please see Corrigendum-IV
3	2.4 (16)	64	Proposed system should be rack mountable to fit into a standard 19-inch rack and 2 RU space. In case of Rack Space required is more in that case bidder should provide & install Smart Telecom Rack (42 RU) with inner air conditioning (Min 1 KW & external outdoor unit and SNMP monitoring of Temperature). In this case DCDB, MCBs, power cables (approx. 15 mtr per site) required for extending power from Power distribution point shall be provided by the bidder.	We understand that 2RU space is for equipment and additional 1 RU space will be provided for Mux/Demux as smallest equipment across OEM is of 2RU and all OEMs put mux/demux outside chassis of 1RU. So total space requirement is 3RU	Query response: Please see Corrigendum-IV
4	2.4 (17)	64	The proposed devices of OTN & Mux/Demux with Amplifier should be managed from a single system.	8 ch mux/demux are passive in nature and hence, cant be managed in NMS. Request railtel to remove mux/demux from the clause	Query response: All active components should be managed in NMS/EMS/SDN-Controller.
5				Please confirm if mux/demux/amplifier/OSC etc need to be part of BOQ for SOR-8	Query response: Yes ,OSC should be part of BOQ for SOR-10 only.
6	2.5 (11)	65	System shall be built in such a manner that it should work with existing DWDM network based on above parameters and supplied SDN Controller should provide latest APIs, which shall further facilitate multivendor interoperability. System shall support configuration management, open APIs, and standards-based SNMP/YANG models. These management features should be available at no cost to RailTel.	SDN based networks are not of much benefits for DWDM based networks and that too without ASON/GMPLS. Also, big Tier-1 operators are struggling to make the full use of SDN based networks as interoperability is still an issue and deployed SDN networks need big engineering teams to continuously develop APIs. Latest TEC GR for NMS systems-TEC-SD-IT-EMT-001-01-MAR-16 does not refer to SDN at any level. Also, This clause is a restrictive clause and may impact the participation of Indian OEM's in the bid. Hence, request Railtel to remove the clause.	Query response: Please see Corrigendum-IV

7	2.5 (12)	66	The proposed system shall be managed by a single unified system/Controller with DC & DR (active and standby) for all the active components. Bidder shall also propose Open Controller (Multi-vendor) based Management System for managing system with DC & DR (active and standby). All licenses required for Northbound and Southbound interface (API) should be equipped with offered solution at no additional cost to RailTel. Bidder/OEM can also leverage existing Management system deployed in RailTel, if the OEM shall provide Undertaking for long term support for 8 years for all existing components irrespective of End of Life of the existing hardware/License/Software. Hardware/License/Software required for such up gradation shall be included in the price bid.	SDN based networks are not of much benefits for DWDM based networks and that too without ASON/GMPLS. Also, big Tier-1 operators are struggling to make the full use of SDN based networks as interoperability is still an issue and deployed SDN networks need big engineering teams to continuously develop APIs. Latest TEC GR for NMS systems-TEC-SD-IT-EMT-001-01-MAR-16 does not refer to SDN at any level. Also, This clause is a restrictive clause and may impact the participation of Indian OEM's in the bid. Hence, request Railtel to remove the clause.	Query response: Please see Corrigendum-IV
8	2.5 (16)	66	Proposed system should be rack mountable to fit into a standard 19-inch rack and 2 RU space. In case of Rack Space required is more in that case bidder should provide & install Smart Telecom Rack (42 RU) with inner air conditioning (Min 1 KW & external outdoor unit and SNMP monitoring of Temperature). In this case DCDB, MCBs, power cables (approx. 15 mtr per site) required for extending power from Power distribution point shall be provided by the bidder.	We understand that 2RU space is for equipment and additional 1 RU space will be provided for Mux/Demux as smallest equipment across OEM is of 2RU and all OEMs put mux/demux outside chassis of 1RU. So total space requirement is 3RU	Query response: Please see Corrigendum-IV
9	2.5 (17)	66	The proposed devices of OTN & Mux/Demux with Amplifier should be managed from a single system.	8 ch mux/demux are passive in nature and hence, cant be managed in NMS. Request railtel to remove mux/demux from the clause	Query response:All active components should be managed in NMS/EMS/SDN-Controller.
10	2.3 (1)	52	The switch should support RJ-45 console port and industry standard CLI	Kindly allow USB console also as an alternative to RJ45 based console for wider participation. As we understand the console cable will be provided by the bidder/switch OEM. Kindly amend the clause as below: "The switch should support RJ-45 or USB console port and industry standard CLI"	Query response: Please see Corrigendum-IV
11				Please confirm if mux/demux/amplifier/OSC etc need to be part of BOQ for SOR-9	Query response: Yes ,OSC should be part of BOQ for SOR-10 only.
12	2.3 (2)	52	It shall support for Automatic Negotiation of link speed and duplex to help minimize the configuration & errors.	As we understand the autonegotiation is applicable to 1G Base-T Ports only. Kindly confirm	Query response: It will be applicable for 1G only.
13	2.3 (2)	56	It shall have Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination	Kindly allow layer-3 traceroute as a standard implementation for ease of troubleshooting. Request to amend the clause as below: "It shall have Layer 2 / Layer 3 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination"	Query response: No Change is proposed in clause.
14	2.3 (20)	59	Should have extensive support for IP SLA and best path selection for metrics like delay, latency, jitter, packet loss to assure business critical IP applications or similar technology.	Best path selection based based on delay, jitter metrics is part of MPLS router features and not typically the part of ethernet switching features. Kindly remove this clause for wider participation	Query response: No Change is proposed in clause.
15	2.3 (21)	59	It should support duplicate address inspection	Kindly allow the features such as <i>First Hop Security</i> and <i>uRPF</i> as alternative to duplicate address inspection. Request to amend the clause as below: "It should support duplicate address inspection/first hop security/uRPF"	Query response: No Change is proposed in clause.
16	2.3_1	34	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one. MPLS Router Type-I: 6x10G SFP+ & 8x1G SFP	Having 6x10G and 8x1G Interfaces on a 60G router will be a blocking/oversubscribed type of architecture. Moreover 4x10G Interfaces is sufficient in such category of router considering their use case in access layer. Hence we request to amend the Minimum Interfaces Requirement for MPLS Type-I Router as below: 4x10G SFP+, 12x1G SFP	Query response: No Change is proposed in clause.
17	2.3_1	34	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one. MPLS Router Type-II: (4x10/25 G SFP28 & 8x1G SFP) OR (2x10/25 G SFP28, 4x10G SFP + & 8x1G SFP)	As we understand and also discussed in the pre-bid, either of the 10G or 25G interface availability on the router is sufficient to meet the requirement. Kindly clarify.	Query response: No Change is proposed in clause.

18	2.3_1	34	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one. MPLS Router Type-III: 4x40/100G QSFP28 & 24x10/25G SFP28	With 280G of capacity, 3x100G Interfaces are sufficient for the deployment use case. i.e. 2x100G for Ring/Uplinks and 1x100G for client or NNI with redundant router. Request to change the 100G interface requirement for MPLS Type-III Router from 4x100G to 3x100G.	Query response: No Change is proposed in clause.
19	2.3_1	34	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one. MPLS Router Type-III: 4x40/100G QSFP28 & 24x10/25G SFP28	As we understand and also discussed in the pre-bid: i) Either of the 10G or 25G interface availability on router is sufficient to meet the requirement. ii) Either of the 40G or 100G interface availability on router is sufficient to meet the requirement. Kindly clarify.	Query response: No Change is proposed in clause.
20	2.3_1	34	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one. MPLS Router Type-III: 4x40/100G QSFP28 & 24x10/25G SFP28	With 280G of throughput capacity, 3x100G Interfaces are sufficient for the deployment use case. i.e. 2x100G for Ring/Uplinks and 1x100G for client or NNI with redundant router. Request to change the 100G interface requirement for MPLS Type-III Router from 4x100G to 3x100G.	Query response: No Change is proposed in clause.
21	2.3_4&5	34	Minimum IPv4 RIB/FIB Minimum IPv6 RIB/FIB	The 60G routers usually deployed in Access layer and hence the routing scales of 1M is too big comparing the router capacity and other scales asked for this category of router like L2/L3 VRF etc as per the deployment use case. Kindly amend the routing scales as below: Minimum IPv4 RIB/FIB: 20K/10K Minimum IPv6 RIB/FIB: 5K/2.5K	Query response: Please see Corrigendum-IV
22	2.3_4&5	34	Minimum IPv4 RIB/FIB Minimum IPv6 RIB/FIB	The 80G routers usually deployed in Access layer and hence the routing scales of 1M is too big comparing the router capacity and other scales asked for this category of router like L2/L3 VRF etc as per the deployment use case. Kindly amend the routing scales as below: Minimum IPv4 RIB/FIB: 20K/10K Minimum IPv6 RIB/FIB: 5K/2.5K	Query response: Please see Corrigendum-IV
23	2.3_4&5	34	Minimum IPv4 RIB/FIB Minimum IPv6 RIB/FIB	The 280G routers usually deployed in Pre-Agg/Aggregation layer and hence the routing scales of 4M is too big comparing the router capacity and other scales asked for this category of router like L2/L3 VRF etc as per the deployment use case. Kindly amend the routing scales as below: Minimum IPv4 RIB/FIB: 64K/32K Minimum IPv6 RIB/FIB: 16K/8K	Query response: Please see Corrigendum-IV
24	2.3_37	44	TELEMETRY Function: It shall support following:	Request to allow SNMPv2/v3 or REST API as an alternative to telemetry.	Query response: No Change is proposed in clause.
25	2.3_32	41	The proposed router should be NEBS level 3 compliant. NEBS Certification is not required for PMA. However OEM has to produce certificate from standard lab approved or authorized by Govt. of India that the supplied Products are equivalent to NEBS and meet all standard and specification of NEBS.	Request to allow QM333 as an alternative to NEBS standard for MII OEMs.	Query response: No Change is proposed in clause.
26	2.3_3	34	Minimum MAC Table Size	Request to change the MAC address table size to 32K for MPLS Type-III Router	Query response: Please see Corrigendum-IV
27	2.3_52	48	Router should be able to support SRv6 standards whenever it is firmed upt without any cost to RCIL.	Some of the SRv6 implementations are yet in the form of IETF drafts and and not completely promoted as RFC. SRv6 adds the significant amount of layer 3 overheads on Control & Dataplane forcing the high-end processor capacity on semiconductor. It results in increased costing of semiconductor that is supported only by few OEMs globally. Hence we request the deletion of SRv6. Kindly confirm	Query response: No Change is proposed in clause.
28	2.3_1	51	The switch should have minimum ports. Ethernet Fiber Switch Type-II: (2x25G SFP28 OR 2x40G QSFP, 4x10SFP+ & 8x1G SFP) OR (6x1/10/25G SFP28)	Request to allow 100G as an alternative to 40G interface and 10G as an alternative to 25G for wider participation.	Query response: No Change is proposed in clause.

29	2.3_1	51	The switch should have minimum ports. Ethernet Fiber Switch Type-II: 2x40/100G QSFP28 & 8x10G SFP+	As we understand and also discussed in the pre-bid, either of the 40G or 100G interface availability on the switch is sufficient to meet the requirement. Kindly clarify.	Query response: No Change is proposed in clause.
30	2.3_5	52	Proposed devices should be equipped with uplink optics in pair (BX U & D) for single fiber (40 km on single mode)	Request to make it applicable only for 10G/25G interfaces in case of Ethernet Fiber Switch-II & III	Query response: No Change is proposed in clause.
31	2.3_14	54	It shall support Optical Transceiver Digital Diagnostic Monitoring and support 802.3ah link layer remote loopback and discovery	For remote loopback and link status check, kindly allow BFD as alternative. Hence request to ammend the clause as below: It shall support Optical Transceiver Digital Diagnostic Monitoring and support 802.3ah/BFD link layer remote loopback and discovery	Query response: No Change is proposed in clause.
32	2.3_36	61	Bidder can propose Router based solution against requirement of ethernet fiber switch of Type-I, Type-II & III.	Request to remove remove this clause as Switching and MPLS are different solutions and have commercial implications. Not all switching functions may be supported in IP/MPLS router.	Query response: No Change is proposed in clause.
33	2.3_4	57	L3 features support Static Routing, OSPF, ISIS, BGP, BGP-LU, LDP and LFA/rLFA.	Kindly remove MPLS features: BGP-LU, LDP and LFA/rLFA for Ethernet Fiber Switches	Query response: No Change is proposed in clause.
34	2.3_7&8	57	It should support Ethernet Ring Protection Switching ERPS v2 for main ring and sub rings: G.8032 ERPS Ring Protection Switching provides loop avoidance with redundancy in Layer-2 Ethernet networks using concept of RPL (Ring Protection Link). The switch completion time (transfer time) for a failure on a ring link shall be less than 50ms. It should support Layer-2 VPN (100 Nos) & VPLS (dual homing) ethernet circuits using concept of IP-MPLS (LDP). The switching completion time (transfer time) for a failure on a ring Network of IP-MPLS shall be less than 50ms. Layer-2 VPN should support pseudowire redundancy to provides the ability to recover from a failure either of the remote provider edge (PE) device or of the link between the PE and customer edge (CE) device.	Kindly remove the MPLS features: LDP, L2VPN and VPLS for Ethernet Fiber Switches	Query response: No Change is proposed in clause.
35	2.3_9	58	It should support Minimum Label Stack: 5 and Minimum MPLS Labels:10K.	Kindly remove the MPLS features for Ethernet Fiber Switches	Query response: No Change is proposed in clause.
36	3.7.2	21	The tenderer shall arrange formal class room training as per approved course structure for 20 men-weeks at each RailTel region and shall also include hands on practical experience at the manufacturer's/bidder's premises. Set of Documents related to training to each of the trainees shall be provided. All expenses of Training shall be borne by the tenderer however expenses for travel to and from the place of training, boarding and lodging of the trainees shall be borne by RailTel.	Specify the no. of regions to be consider for Training	Query response: 10 Person per Bach at any One Location
37	3.18	26	replace the faulty equipment Within a week	Replacement Services kindly extend for the month	Query response: No Change is proposed in clause.
38	2.1 (viii)	31	Should support IPv6 & IPv4 Network address Translation (NAT 66, NAT 46, NAT 64 & NAT 44) and TUNNEL (manual, automatic, GRE).	We understand CPE passes the traffic of IPv4 & Ipv6 and translation is not required. Hence, we request RailTel to relax the requirement of Translation (NAT 66, NAT 46, NAT 64 & NAT 44) from CPE.	Query response: No Change is proposed in clause.
39	2.1 (ix)	31	Should have regulatory compliance like UL & FCC/CE and The equipment (OS)/Series/Family should have EAL-4/NDPP or higher under common criteria programme for security related functions or under Indian common criteria certification scheme (IC3S) by STQC, DEIT, Government of India.	As the products are MTCTE certified and complying to regulatory compliance. We request RailTel to relax requirement of EAL-4/NDPP or higher under Common Criteria Certification	Query response: No Change is proposed in clause.
40	2.1 (xiii)	31	The offered product of same series/family should have Satisfactorily working for at least 6 months (during last 3 FY and current FY) as on date of opening of tender, in India in at least two Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.	As we are a global OEM, we would request RailTel to allow and consider global experience to meet this requirement.	Query response: No Change is proposed in clause.

41	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III>Layer-2 Features:	52	5.It shall support spanning tree root guard and loop guard to prevent other edge switches becoming the root bridge.	We request Railtel to allow RSTP as an alternate solution. Kindly confirm.	Query response: Please see Corrigendum-IV
42	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III>Network Security Features:	54	2.It shall support Spanning-Tree Root Guard (STRG) to prevent edge devices not in the network administrator's control from becoming Spanning Tree Protocol root nodes.	We request Railtel to allow RSTP as an alternate solution. Kindly confirm.	Query response: Please see Corrigendum-IV
43	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III	35	12. The router should support Netflow/Jflow or equivalent	We understand that, Jflow and Netflow are optional in MPLS TX network, kindly confirm.	Query response: No Change is proposed in clause.
44	1. Minimum Ports (excluding XFP/SFP/QSFP/QSP28) from day one. Type-3	33	Type 3: 4x40/100 G QSFP28 & 24x10/25G SFP28	We understand that, 40G line rate is optional, kindly confirm.	Query response: Router should support both 100G and 40G.
45	3.2	15	Material is required to be delivered by the supplier at the location/consignee within 60 days from the date of issue of each Sub-PO issued against Advance Purchase order	We request to allow material delivery by the supplier at the locations within 120 days from the date of PO. Kindly confirm	Query response: Please see Corrigendum-IV
46	2.5 SOR-9	64	9. Line ports of 100/200G System shall support minimum back-to-back OSNR sensitivity of -16 db or better at 100G line rate on 40 Channel system	We understand that the proposed transponder shall have back to back OSNR tolerance value of 17dB or lower at 100G line rate on 40Ch system. Kindly confirm	Query response: Please see Corrigendum-IV
47	2.5 SOR-9 100G-OTN Device	65	1. The OTN system shall have physical Line interface 2x100 or 1x200G from day-1 and shall have the capability to support additional 400G (2x100G/200G) line traffic capacity by adding additional proposed traffic cards. The Proposed Traffic Cards solution shall also be supported over the existing DWDM System (mix of 10G wavelength and 100G coherent wavelength) by using Alien wavelength.	We understand that bidder can propose two box/card/module solution to support additional traffic capacity required in future. Kindly confirm	Query response: Bidder can propose single or Multi box solution against this requirement.
48	2.5 (SOR-9: 100G-OTN Device)	64	The OTN System should be equipped with protection system/module/card for Line side ports and protection switching (50 ms). System should also support Client Protection if required in future by upgradation License/additional card.	As we understood, there is mandatory requirement is for clien side protection require if working path fails, please confirm	Query response: Line Protection (with equipped cards) is day one mandatory requirement and Client Protection is also mandatory requirement in case required in future by upgradation License/additional card.
49	2.5 (SOR-9: 100G-OTN Device)	64	Line ports of 100/200G System shall support minimum back-to-back OSNR sensitivity of -16 db or better at 100G line rate on 40 Channel system.	As we understood, OSNR sensitivity -16 db is mentioned for the 100G line rate, please confirm	Query response: Please see Corrigendum-IV
50	2.6 (SOR-10: DWDM Mux/De-Mux (8 Channel) with pre-Amplifier)	66	Proposed Amplifiers of system (A to B Locations) at both sides for sections (0 to 50 Km distance) should be capable to cater 30 db fiber section loss for 8 DWDM Channel system design.	As we understood all the links are P2P (poin to point), traffic will be in between point A to B (0 to 50 KM). For that span loss including EOL (end of Life) is 30db. needs to considered. Please confirm.	Query response: Yes , It is included EOL (end of Life).
51	3.7.2 (Training:)	22	The tenderer shall arrange formal class room training as per approved course structure for 20 men-weeks at each RailTel region and shall also include hands on practical experience at the manufacturer's/bidder's premises	Recommends to have batch size of max. 8 person with max. 5days training plan to have an effective training delivery to the required participants . For hands on practical experience, will provision remote access to test labs to max. 8 participants.	Query response: 10 Person per Bach at any One Location
52	3.8 Long Term Maintenance Support/AMC:)	22	Bidder shall provide maintenance support for a minimum period of 5 years after successful completion of warranty obligations. The long term maintenance support shall be comprehensive and include all hardware and software equipment supplied against this contract. RailTel should be extended the benefits of software update/up-grades made by OEM on the system from time to time to improve performance. During this period the scope of work as mentioned in clause 2 of tender document & its sub clauses will be applicable.	Please confirm the spare management requirements/scope and target SLA for hadware services support.	Query response: No Change is proposed in clause.

53	7.5.7 (Inspection:)	81	Finished products shall be tested 100% by the factory QC personnel before being offered to RailTel for acceptance to ensure that it meets all quality requirements as per the relevant specifications. Duly filled in test formats indicating the results of such tests shall be submitted along with material offered for inspection to RailTel.	Will provide standard test documents. Will this suffice the said requirement.	Query response: No Change is proposed in clause.
54	2.2 (2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III (2))	34	Minimum Total throughput (Full duplex) = 280Gbps	Considering 4x100G QSFP28 =400Gbps OR 24x25G SFP28 =400Gbps, kindly revise the router throughput: Minimum Total throughput (Full duplex) = 400Gbps	Query response: No Change is proposed in clause.
55	2.2 2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III (35))	42	Devices shall support following natively or through EMS for Provisioning. If it is supported through NMS, NMS should be provided without additional cost to RailTel	If EMS from the same OEM is already available with RailTel, same EMS can be utilized for subject requirement.	Query response: No Change is proposed in clause.
56	3.8.1	21	Bidder shall provide maintenance support for a minimum period of 5 years after successful completion of warranty obligations. The long term maintenance support shall be comprehensive and include all hardware and software equipment supplied against this contract. RailTel should be extended the benefits of software update/up-grades made by OEM on the system from time to time to improve performance. During this period the scope of work as mentioned in clause 2 of tender document & its sub clauses will be applicable.	What is the total support period required in the tender? 1. In page no. 30 it is mentioned that the required support need to be 3+5. 2. In page number 4 , the total cost of AMC is considered to be 1year + 5 years.	Query response: Bidder shall provide maintenance support for a minimum period of 5 years after successful completion of warranty obligations. In SOR cost of AMC bidder has to quote Unit Price for 1 Year withTax (In Rs.) and Total Price for 5 Years with Tax (In Rs.). AMC is for 5 years after after successful completion of warranty obligations
57		30	TECHNICAL REQUIREMENTS & SPECIFICATIONS 1. All Equipment should be: (i) With 3-year warranty & 5 years of Long-Term Maintenance Support.		
58		4	Schedule of Requirements		
59	2.3 Pt.16	58	It shall support new tools such as Remote Defect Indication, Alarm Report, one-way or two-way Delay Measurement, Packet Loss measurement, and in-service diagnostics tools.	Need more clarity	Query response: Please see Corrigendum-IV
60	2.3 Pt. 3	56	It should support 63 IP interface, 8 loopback interfaces and Inter vlan routing	for type 1 switch can it be 32 IP interface , 32 loopback interfaces and Inter vlan routing	Query response: Please see Corrigendum-IV
61	2.5 Pt.8	64	The OTN System should be equipped with protection system/module/card for Line side ports and protection switching (50 ms). System should also support Client Protection if required in future by upgradation License/additional card	Can OLP card solution be proposed for Line side protection with different fiber path?	Query response: Line Protection (with equipped cards) is day one mandatory requirement and Client Protection is also mandatory requirement in case required in future by upgradation License/additional card.
62	TECHNICAL REQUIREMENTS & SPECIFICATIONS 1. All Equipment should be:	31	The offered products for router and switched should be registered on Trusted Telecom Portal (Authority: DOT notification No. 20-1263/2021-AS-I Dated: 30.03.2021, https://trustedtelecom.gov.in) and should have MTCTE (Mandatory Testing and Certification of Telecom Equipments) certificate at the time of delivery. (Authority: DOT circular No. 5-2/2021-TC/TEC/112 dated 31.01.2022, https://www.mtcte.tec.gov.in).	Under evaluation companies by TTP should also be allowed to participate. Most of the company's certification is being pending for long long time by TTP even after 10-12 months. It is delayed by department.	Query response: No Change is proposed in clause.
63	2.3 – S.N. 1	50	(2x25G SFP28 OR 2x40G QSFP, 4x10SFP+ & 8x1G SFP) OR (6x1/10/25G SFP28)	Uplink must be defined as either 25G or 40G. It can not be optional as this will have huge cost difference in both kind of switches. For uniformity among all prospective OEMs and better price analysis. It has to be 100G uplink port requierement same like Type III switch.	Query response: No Change is proposed in clause.

64	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III	51	Proposed devices should be equipped with uplink optics in pair (BX U & D) for single fiber (40 km on single mode)	<p>What is the Uplink Port requirements in Type II switch? 25G / 40G. Please specify the Uplink Port requirements in Type II switch? Type III also asked for 40G/ 100G uplink port. So Type II switch can also be 100G uplink port Switch. For uniformity among all prospective OEMs and better price analysis. It has to be 100G uplink port requirement same like Type III switch.</p> <p>Generally 40G Bi Di 40 KMs is not available with most of the OEM. In case available than there is a Huge Price Difference in the price of 25G v/s 40G for Single Mode Single Fiber Bi Di 40 KMs SFP. Reference in 10x (10 Times)</p> <p>So Type II switch should have 100G uplink port Switch.</p>	Query response: No Change is proposed in clause.
65	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III	51	Proposed devices should be equipped with uplink optics in pair (BX U & D) for single fiber (40 km on single mode)	<p>SFP to be supplied along with switch. There are 2 Uplink Port asked in the switch. You are asking Bi Di SFP on the uplink port. Supply by bidder has to be 1 Pair or 2 Pair. 1 Pair can populate 02 Port of the switch. Kindly confirm supply should be 1 Pair or 2 Pair.</p>	Query response : Proposed devices should be equipped with uplink optics in one pair (BX U & D) for single fiber (40 km on single mode)
66	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III	51	2x40/100G QSFP28 & 8x10G SFP+	<p>Asked uplink port in the switch is 40G/ 100G. 100G port is fall back to 40G. As bidder has to supply the SFP as well along with Switch. Generally 40G Bi Di 40 KMs is not available with most of the OEMs. In case available than there is a Huge Price Difference in the price of 25G v/s 40G for Single Mode Single Fiber Bi Di 40 KMs SFP. Reference in 10x (10 Times)</p> <p>So Type II switch should ask 100G uplink port in the Switch. Query 2: Supply by bidder has to be 1 Pair or 2 Pair. 1 Pair can populate 02 Port of the switch. Kindly confirm supply should be 1 Pair or 2 Pair.</p>	Query response : Proposed devices should be equipped with uplink optics in one pair (BX U & D) for single fiber (40 km on single mode)
67	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III	61	34. Switch should comply to following Temperature performance parameters:	i) Operating Temperature - min 0 to 55 °C Ideally 0~55 Degree is the standard followed for the commercial grade Network Switch.	Query response: No Change is proposed in clause.
68	Features Required for all type of SFPs	70	Should provide the cost in Pair (BX U & D) for BIDI SFPs	<p>In the Main SOR (11 & 18) Page no 5 & 6, quantities are mentioned in Nos. Please confirm, should the bidder supply 800 nos SFP (400 Pair) or 800 Pair (for SOR 11) 20 nos SFP (10 Pair) or 20 Pair (for SOR 18)</p>	Query response: Please see Corrigendum-IV
69	2.5 SOR-9	64	Traffic card should support SDFEC or equivalent.	We understand that proposed traffic card shall support SDFEC/OFEC or equivalent. Kindly confirm	Query response: OFEC is also acceptable
70	2.5 SOR-9	65	The offered product of same series/family should have Satisfactorily working for at least 6 months (during last 3 FY and current FY) as on date of opening of tender, in India in at least two Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.	We understand that OEM can propose product from the same series/family of muxponder/transponder solutions deployed in DWDM networks in India or abroad in two Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. . Kindly confirm	Query response: No Change is proposed in clause.

71	3.2 of chapter 3	16	Material is required to be delivered by the supplier at the location/consignee within 60 days from the date of issue of each Sub-PO issued against Advance Purchase order	Given the involvement of multiple OEMs, each with their own delivery timelines, and the ongoing instability in the global supply chain due to current events, Considering these factors and the anticipated delays for first-time inspections compared to subsequent Sub POs, we kindly request an extension of the delivery period to 180 days without liquidated damages.	Query response: Please see Corrigendum-IV
72	Clause 3.2	16	Material is required to be delivered by the supplier at the location/ consignee within 60 days from the date of issue of each Sub-PO issued against Advance Purchase order.	Material is required to be delivered by the supplier at the location/ consignee within 6 months from the date of issue of each Sub-PO issued against Advance Purchase order.	Query response: Please see Corrigendum-IV
73	2.2, point no. 1	32	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-III: Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one.: 4x40/100 G QSFP28 & 24x10/25 G SFP28	Our recommended change requeest that Out of four 100G ports, minimum Two 100G port should be Upgradable to 400G interface. 4x40/100 G QSFP28/Q-DD & 24x10/25G SFP28. Due to IPoDWDM with 400G Q-DD optics, our recommendation is to keep upgradability option for at least two ports.	Query response: No Change is proposed in clause.
74	2.2, point no. 2		2. Minimum Total throughput (Full duplex): 280 Gbps	2. Minimum Total throughput (Full duplex): 500 Gbps As per router port requirements	Query response: No Change is proposed in clause.
75	2.2, point no. 4	33	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-II: 4. Minimum IPv4 RIB/FIB: 1M/64K	Our recommended change requeest: MPLS Router Type-II: 4. Minimum IPv4 RIB/FIB: 1M/32K Type-I and Type-II are in the same layer in the network architecture and kindly keep similar scale for number of routes.	Query response: Please see Corrigendum-IV
76	2.2, point no. 5	33	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-II: 4. Minimum IPv6 RIB/FIB: 512K/16 K	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-II: 4. Minimum IPv6 RIB/FIB: 512K/8 K Type-I and Type-II are in the same layer in the network architecture and kindly keep similar scale for number of routes.	
77	2.2, point no. 4	33	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-III: 4. Minimum IPv4 RIB/FIB: 4M/1M	Our recommended change requeest: MPLS Router Type-III: 4. Minimum IPv4 RIB/FIB: 4M/128K Larger participation	
78	2.2, point no. 5	33	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-III: 4. Minimum IPv6 RIB/FIB: 1M/500K	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III: MPLS Router Type-III: 4. Minimum IPv6 RIB/FIB: 1M/32K Larger participation	
79	2.2, point no. 59	50	iii.The proposed devices of MPLS Router Type-I,II &III should be managed from a single system.	Kindly allow Bidder can use existing Deployed NMS/Manager/SDN Controller to manage these devices Use of existing platform with minimal integration effort, single dashboard	Query response: Yes , Bidder can use existing Deployed NMS/Manager/SDN Controller to manage these devices
80	2.3	50	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-III: The switch should have minimum ports: 2x40/100G QSFP28 & 8x10G SFP+	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-III: The switch should have minimum ports: 4x40/100G QSFP28 & 8x10G SFP+ Kindly consider this with two additional ports of 40G/100G for multiple uplink for branch	Query response: No Change is proposed in clause.

81	2.3	51	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I: The Switch shall be available with minimum Switching Fabric: 80 Gbps	Type-I: The Switch shall be available with minimum Switching Fabric: 64 Gbps Kindly consider after calculating total number of ports	Query response: No Change is proposed in clause.
82	2.3	51	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-II: The Switch shall be available with minimum Switching Fabric: 160 Gbps	2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-II: The Switch shall be available with minimum Switching Fabric: 120 Gbps Kindly consider after calculating total number of ports	Query response: No Change is proposed in clause.
83	2.3		1 The LAN switch shall support IEEE 802.1Q VLAN up to 200 Active VLANs and 4094 VLAN ID.	The LAN switch shall support IEEE 802.1Q VLAN up to 200 Active VLANs and 500 VLAN ID. Larger participation	Query response: Please see Corrigendum-IV
84	2.1 SOR-1: CPE Router: 1(xi)	31	Should support stateful firewall functionality with New Sessions/Second (TCP) 10k & Concurrent Sessions (TCP) 2 Lac.	Should support stateful/Zone based firewall functionality with New Sessions/Second (TCP) 10k & Concurrent Sessions (TCP) 2 Lac. Router based solution generally available with Zone based Firewalling. Session are related to pure Firewall parameter, not applicable for SDWAN architecture	Query response: Please see Corrigendum-IV
85	2.1 SOR-1: CPE Router: 1 (xii)	31	The offered product should support min 10 Mbps (Duplex) SD WAN throughput from day 1 and should be scalable to support 50 Mbps (Duplex) by upgrading the license whenever required in the future without replacing the hardware. Bidders need to provide required SD WAN license from day 1.	The offered product should support min 20 Mbps (Duplex) SD WAN throughput from day 1 and should be scalable to support 200 Mbps (Duplex) by upgrading the license whenever required in the future without replacing the hardware. Bidders need to provide required SD WAN license from day 1.	Query response: No Change is proposed in clause.
86	2.1 SOR-1: CPE Router: 5(a)	32	(a) Should have dual input or dual AC Power Supply 100 to 240V AC with 50/60Hz & equipped with power adapters/cords.	(a) Should have dual input or field replaceable hot swappable dual AC Power Supply 100 to 240V AC with 50/60Hz & equipped with power adapters/cords. This router would be deployed at central site	Query response: No Change is proposed in clause.
87	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III	33	Minimum IPv4 RIB/FIB	Request RIB scale to be 128K for IPv4 and 32K for IPv6, considering 4 times the FIB scale. For 32K IPv4/8K IPv6 FIB scale, 1M v4/512K v6 RIB scale is disproportional.	Query response: Please see Corrigendum-IV
88	2.2 SOR-2, 3 & 4: MPLS Router Type-I, II, III	33	Minimum IPv6 RIB/FIB	Request RIB scale to be 128K for IPv4 and 32K for IPv6, considering 4 times the FIB scale. For 32K IPv4/8K IPv6 FIB scale, 1M v4/512K v6 RIB scale is disproportional.	Query response: Please see Corrigendum-IV
89	Clause no- 3.3.2 (S.No-1) Eligibility Criteria for OEM's (Routers, Switches and OTNs) :	18	The Equipment offered by the OEM or equipment/software of the same series/family from the same OEM should have been satisfactorily working in Government/PSUs/Telecom Service Providers/ Public Listed Company for at least 12 months as on date of opening of tender, in India or Abroad.	We kindly request your consideration to provide an exemption on the previous work experience requirement for Make in India OEMs in order to promote and support the local manufacturing industry. This exemption will allow local manufacturers, who may otherwise be unable to participate in the bidding process, to offer their products and contribute to the growth of domestic manufacturing. In place of the experience requirement, a comprehensive Proof of Concept (PoC) may be requested from local OEMs to demonstrate their capability to meet all the tender specifications. This approach will ensure that qualified domestic players have a fair opportunity to compete and contribute to national objectives. Many local OEMs with technically compliant products are unable to meet the eligibility criteria for OEMs, as this requirement often serves as a persistent entry barrier, preventing their participation.	Query response: No Change is proposed in clause.

90	Clause no- 3.3.2 Eligibility Criteria for OEM's (Routers, Switches and OTNs) :	18	OEM should have supplied the equipment offered or equipment/software of the same series/family at least 35% of the tendered value during last preceding 3 financial years (i.e. current year and three previous financial years) as on opening date of bid to Government/PSUs /Telecom Service Providers / Public Listed Company in India or Abroad or 35% of their offered equipment cost by respective OEM against SOR.	<p>We kindly request your consideration to provide an exemption on the previous work experience requirement for Make in India OEMs in order to promote and support the local manufacturing industry. This exemption will allow local manufacturers, who may otherwise be unable to participate in the bidding process, to offer their products and contribute to the growth of domestic manufacturing.</p> <p>In place of the experience requirement, a comprehensive Proof of Concept (PoC) may be requested from local OEMs to demonstrate their capability to meet all the tender specifications. This approach will ensure that qualified domestic players have a fair opportunity to compete and contribute to national objectives.</p> <p>Many local OEMs with technically compliant products are unable to meet the eligibility criteria for OEMs, as this requirement often serves as a persistent entry barrier, preventing their participation.</p>	Query response: No Change is proposed in clause.
91	Clause 6.4, Chapter-6	9	Earnest Money Deposit (EMD)/ Bid Security: Rs. 24,17,500/- through envida Portal	1. Bidder has to select the payment option as "Online Payment" to pay the tender fee / EMD as applicable and enter details of the instrument. we request you that please also consider EMD in the form of BG	Query response: No Change is proposed in clause.
92	Chapter 3, 3.2+C7:F8	16	Material is required to be delivered by the supplier at the location/consignee within 60 days from the date of issue of each Sub-PO issued against Advance Purchase order.	<p>We request for Delivery period to 6 months period from Advance PO issued.</p> <p>The quantity asked is in large nos, and its not available ready in stock always. The material is manufactured only against the PO received. It involves parts assembly, production, movement from factory , customs clearance, and further delivery to sites. so we request you to amend the delivery period to 6 months instead of 2 months.</p>	Query response: Please see Corrigendum-IV
93	Chapter 3, 3.14	26	100% of the value of the part supply of Equipment on receipt by the consignee at site duly inspected and accompanied with above mentioned documents.	<p>Please allow Partial delivery and Partial Payment for the sites material delivery.</p> <p>In case the partial material is available for particular site(e.g. if 5 out of 10 items are ready for shipment), we would request to please allow partial delivery and Partial Payments .</p>	Query response: No Change is proposed in clause. It is already allowed
94	CHAPTER-3 3.3.1.3 Technical Capability	Page-15	For MSE: One similar work# each costing not less than the amount equal to 35% of advertised value of the tender, (OR) Two similar work# each costing not less than the amount equal to 20% of advertised value of the tender, (OR) Three similar work# each costing not less than the amount equal to 15% of advertised value of the tender,	<p>Requested clause: Request to relax this clause for MSE</p> <p>Justification: As per Government of India recommendation to all Central Ministries/ Departments, relaxation can be given of prior turnover and prior experience in public procurement to all Start-ups [whether Micro & Small Enterprises (MSEs) or otherwise] subject to meeting of quality and technical specification</p>	Query response: No Change is proposed in clause.
95	CHAPTER-3 3.3.2.1 Technical Capability	Page-19	The Equipment offered by the OEM or equipment/software of the same series/family from the same OEM should have been satisfactorily working in Government/PSUs/Telecom Service Providers/ Public Listed Company for at least 12 months as on date of opening of tender, in India or Abroad.	<p>Requested clause: Request to relax this clause for indigenous company</p> <p>Justification: As per Government of India recommendation to all Central Ministries/ Departments, relaxation can be given of prior experience in public procurement to all Class I local supplier indigenous company subject to meeting of quality and technical specification</p>	Query response: No Change is proposed in clause.

96	CHAPTER-3 3.3.2.2 Technical Capability	Page-19	OEM should have supplied the equipment offered or equipment/software of the same series/family at least 35% of the tendered value during last preceding 3 financial years (i.e. current year and three previous financial years) as on opening date of bid to Government/PSUs /Telecom Service Providers / Public Listed Company in India or Abroad or 35% of their offered equipment cost by respective OEM against SOR.	<p>Requested clause: Request to relax this clause for indigenous company</p> <p>Justification: As per Government of India recommendation to all Central Ministries/ Departments, relax condition can be given of prior experience in public procurement to all Class I local supplier indigenous company subject to meeting of quality and technical specification</p>	Query response: No Change is proposed in clause.
97	CHAPTER-3 3.11 For MSE	Page-24	Eligible MSEs are exempted from cost of tender document. However, MSEs are required to meet the eligibility criteria as specified in tender clause 3.3.1 and 3.3.2 above as the case may be. Further, the subject work being a works contract having scope of integrating various IT products and applications, the purchase preference criteria for MSME will also be not applicable in the tender	<p>Requested clause: Request to relax this clause for MSE</p> <p>Justification: As per Government of India recommendation to all Central Ministries/ Departments, relax condition can be given of prior turnover and prior experience in public procurement to all Start-ups [whether Micro & Small Enterprises (MSEs) or otherwise] subject to meeting of quality and technical specification</p>	Query response: No Change is proposed in clause.
98	CHAPTER-4 2.1 SOR-I CPE Router Technical Specification	Page-32	The offered product of same series/family should have Satisfactorily working for at least 6 months (during last 3 FY and current FY) as on date of opening of tender, in India in at least two Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.	<p>Requested clause: Request to relax this clause for indigenous company</p> <p>Justification: As per Government of India recommendation to all Central Ministries/ Departments, relax condition can be given of prior experience in public procurement to all Class I local supplier indigenous company subject to meeting of quality and technical specification</p>	Query response: No Change is proposed in clause.
99	CHAPTER-4 2.1 SOR-1: CPE Router S.NO. 1 Features ii	Page-31	Tender Clause: Should support the console, SSH and Telnet mode	<p>Requested clause: Should support the console, SSH / Telnet mode</p> <p>Justification: Telnet is a non-secure protocol and rarely used in current networks as a result we have obsolete the telnet support for security purpose. Hence requesting to change the clause as mentioned above for the larger OEM participation.</p>	Query response: Please see Corrigendum-IV
100	CHAPTER-4 2.1 SOR-1: CPE Router S.NO. 1 Features viii	Page-31	Tender Clause: Should support IPv6 & IPv4 Network address Translation (NAT 66, NAT 46, NAT 64 & NAT 44) and TUNNEL (manual, automatic, GRE).	<p>Requested clause: Should support IPv6 & IPv4 Network address Translation (NAT 46, NAT 64 & NAT 44) and TUNNEL (manual, automatic, GRE).</p> <p>Justification: NAT66 is not ideally required as we have enough IPv6 addresses available. Hence requesting you to relax the NAT66 requirement.</p>	Query response: Please see Corrigendum-IV
101	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch S.NO. 4	Page-51	Tender Clause: The Switch shall have 1K IGMP and 500 MLD snooping groups.	<p>Requested clause: The Switch shall have 1K IGMP and 500 MLD snooping / MLD groups.</p> <p>Justification: Requesting to change the clause as mentioned above to let larger OEM participate.</p>	Query response: Please see Corrigendum-IV

102	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Layer-2 Features: S,NO. 4	Page-52	Tender Clause: It shall support 802.1d, 802.1p, 802.1Q, 802.1s, 802.1w, , 802.1ab.	Requested clause: It shall support 802.1d, 802.1p, 802.1Q, 802.1ab. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to change the clause as mentioned above to let larger OEM participate.	Query response: Please see Corrigendum-IV
103	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Layer-2 Features: S,NO. 5	Page-52	Tender Clause: It shall support spanning- tree root guard and loop guard to prevent other edge switches becoming the root bridge.	Requesting to relax the clause. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to relax the clause to let larger OEM participation.	Query response: No Change is proposed in clause.
104	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Layer-2 Features: S,NO. 6	Page-52	Tender Clause: It shall support IGMP snooping.	Requested clause: It shall support IGMP / IGMP snooping. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to change the clause as mentioned above for the larger OEM participation.	Query response: Please see Corrigendum-IV
105	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Layer-2 Features: S,NO. 10	Page-52	Tender Clause: It shall support unknown unicast and multicast port blocking to allow tight control by filtering packets that the switch has not already learned how to forward.	Requesting to relax the clause. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to relax the clause to let larger OEM participation.	Query response: No Change is proposed in clause.
106	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Layer-2 Features: S,NO. 14	Page-53	Tender Clause: It shall support Optical Transceiver Digital Diagnostic Monitoring and support 802.3ah link layer remote loopback and discovery	Requesting to relax the clause. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to relax the clause to let larger OEM participation.	Query response: No Change is proposed in clause.

107	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Quality of Service (QoS) Features: S.NO. 1	Page-53	Tender Clause: The LAN switch shall have per-port broadcast, multicast, and unicast storm control.	Requesting to relax the clause. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to relax the clause to let larger OEM participation.	Query response: No Change is proposed in clause.
108	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Network Security Features: S.NO. 1	Page-54	Tender Clause: It shall support BPDU filtering feature, to shut down Spanning Tree Protocol Port Fast enabled interfaces when BPDUs are received to avoid accidental topology loops.	Requesting to relax the clause. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to relax the clause to let larger OEM participation.	Query response: No Change is proposed in clause.
109	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Network Security Features: S.NO. 2	Page-54	Tender Clause: It shall support Spanning-Tree Root Guard (STRG) to prevent edge devices not in the network administrator's control from becoming Spanning Tree Protocol root nodes.	Requesting to relax the clause. Justification: As mentioned in the tender these are the L3 switches and most L3 functionality being asked hence requesting to relax the clause to let larger OEM participation.	Query response: No Change is proposed in clause.
110	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Management: S.NO. 2	Page-55	Tender Clause: It shall have Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination	Requesting to relax the clause. Justification: Requesting to relax the clause as mentioned above to let larger OEM participate.	Query response: No Change is proposed in clause.

111	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 7	Page-56	Tender Clause: It should support Ethernet Ring Protection Switching ERPS v2 for main ring and sub rings: G.8032 ERPS Ring Protection Switching provides loop avoidance with redundancy in Layer-2 Ethernet networks using concept of RPL (Ring Protection Link). The switch completion time (transfer time) for a failure on a ring link shall be less than 50ms.	Requesting to relax the clause. Justification: Requesting to relax the clause as mentioned above to let larger OEM participate.	Query response: No Change is proposed in clause.
112	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 8	Page-56	Tender Clause: It should support Layer-2 VPN (100 Nos) & VPLS (dual homing) ethernet circuits using concept of IP-MPLS (LDP). The switching completion time (transfer time) for a failure on a ring Network of IP-MPLS shall be less than 50ms. Layer-2 VPN should support pseudowire redundancy to provides the ability to recover from a failure either of the remote provider edge (PE) device or of the link between the PE and customer edge (CE) device.	Requested clause: It should support Layer-2 VPN (100 Nos) & VPLS (dual homing) ethernet circuits using concept of IP-MPLS (LDP) / EVPN-VxLAN. The switching completion time (transfer time) for a failure on a ring Network of IP-MPLS shall be less than 50ms. Layer-2 VPN should support pseudowire redundancy to provides the ability to recover from a failure either of the remote provider edge (PE) device or of the link between the PE and customer edge (CE) device or switch should support EVPN-VxLAN for the L2VPN & L3 functionality. Justification: EVPN-VxLAN is a latest technology over the traditional L2 & L3 functionality, it has the different types of route types that support L2, L3 & multicast functionality. hence requesting to change the clause as mentioned above to let larger OEM participate.	Query response: Please see Corrigendum-IV
113	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 9	Page-57	Tender Clause: It should support Minimum Label Stack: 5 and Minimum MPLS Labels:10K.	Requesting to relax the clause. Justification: Requesting to relax the clause as mentioned above to let larger OEM participate.	Query response: Please see Corrigendum-IV
114	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 10	Page-57	Tender Clause: It should support VPLS/L2-VPN instances on subinterfaces of one physical port and also support multiple VPLS/L2-VPN instances on one physical port.	Requested clause: It should support VPLS/L2-VPN instances on subinterfaces of one physical port and also support multiple VPLS/L2-VPN instances on one physical port or switch should support EVPN-VXLAN to achieve L2 functionality. Justification: EVPN-VxLAN is a latest technology over the traditional L2 & L3 functionality, it has the different types of route types that support L2, L3 & multicast functionality. hence requesting to change the clause as mentioned above to let larger OEM participate.	Query response: Please see Corrigendum-IV

115	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 14	Page-57	Tender Clause: It shall support access list based on IPv4/v6 address Protocol type IPv6 flow label VLAN-ID MAC-ID DSCP IPv6 traffic class TCP/UDP Port and User-defined packet content	Requested clause: It shall support access list based on IPv4/v6 address Protocol type IPv6 flow label DSCP IPv6 traffic class TCP/UDP Port and User-defined packet content Justification: EVPN-VxLAN is a latest technology over the traditional L2 & L3 functionality, it has the different types of route types that support L2, L3 & multicast functionality. hence requesting to change the clause as mentioned above to let larger OEM participate.	Query response: No Change is proposed in clause.
116	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 22	Page-59	Tender Clause: Support multiple privilege level to provide different level of access on console port and telnet sessions	Requested clause: Support multiple privilege level to provide different level of access on console port and telnet / SSH sessions Justification: Telnet is a non-secure protocol and reraly used in current networks as a result we have obsolete the telnet support for security purpose. Hence requesting to change the clause asmentioned above for the larger OEM participation.	Query response: Please see Corrigendum-IV
117	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 25	Page-59	Tender Clause: It should support IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs)	Requesting to relax the clause. Justification: Requesting to relax the clause as mentioned above to let larger OEM participate.	Query response: No Change is proposed in clause.
118	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 26	Page-59	Tender Clause: It should support Ethernet OAM compliant with IEEE 802.3ah/Y.1731	Requesting to relax the clause. Justification: Requesting to relax the clause as mentioned above to let larger OEM participate.	Query response: No Change is proposed in clause.
119	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 28	Page-59	Tender Clause: It should support L2 Protocol Tunneling for STP and LACP.	Requesting to relax the clause. Justification: Requesting to relax the clause as mentioned above to let larger OEM participate.	Query response: No Change is proposed in clause.

120	CHAPTER-4 2.3 SOR-5, 6 & 7: Ethernet Fiber Switch Type-I, II, III Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch Other features S,NO. 33	Page-60	Tender Clause: v)Threshold alarms for Temperature. vi)Ethernet OAM SNMP alarms.	Requested clause: v)Threshold alarms for Temperature or should support telemetry. vi)Ethernet OAM SNMP alarms or should support telemetry Justification: Similar things can be achieved through telemetry interfaces too hence requesting to change the clause for the larger OEM participation.	Query response: Please see Corrigendum-IV
121	General	Correige ndum-II	Submission date of Tender: 08/11/2024 @ 15:00 hours	Requested clause: Request you to postpone to 15 days from date of receipt of clarifications as mentioned above Justification: Telnet is a non-secure protocol and reraly used in current networks as a result we have obsolete the telent support for security purpose. Hence requesting to change the clause asmentioned above for the larger OEM participation.	Tender reschedule to open on 18.12.2024
122	2.3 (9)	58	It should support Minimum Label Stack: 5 and Minimum MPLS Labels:10K.	As we understand from the use case requirement for Type 2 and Type 3 Fiber switch, requirement of 10K MPLS Labels is on higher side which increases the cost of the product very significantly with no additional advantage on the use case. We request RailTel to consider the the MPLS Labels to maximum as 8K for Type 2 and Type 3 category switch.	Query response: Please see Corrigendum-IV