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Date: 19-11-2025

Corrigendum - I

Sub: Tender for "Selection of OEM/ Vendor for entering into Rate Contract for the Supply of Router, Fiber Switches and SFPs"

Ref: RailTel/Tender/OT/CO/TP/2025-26/Rate Contract-Router & Switches/05 dated 17.10.2025

In reference to the Tender for the "Selection of OEM/ Vendor for entering into Rate Contract for the Supply of Router, Fiber Switches and SFPs" against **E-Tender No RailTel/Tender/OT/CO/TP/2025-26/Rate Contract-Router & Switches/05 dated 17.10.2025**, following is issued with the approval of competent authority:

1: Corrigendum-I (Point 1- 20)

2: Response to Pre-bid queries (Point 1- 92)

3: Extension of Bid End Date/Time as mentioned below:

Present	Revised Tender closing/opening date and time
Bid End Date/Time 20-11-2025 15:00:00	Bid End Date/Time 04-12-2025 15:00:00
Bid Opening Date/Time 20-11-2025 15:30:00	Bid Opening Date/Time 04-12-2025 15:30:00

All other terms and conditions will remain unchanged.

19/11/25

(Himanshu Kumar)
GM/Technology Planning
(For and behalf of RailTel Corporation of India Ltd.)

Corrigendum-I of E-Tender No. Tender No. RailTel/Tender/OT/CO/TP/2025-26/Rate Contract-Router & switches/05 dated 17.10.2025

S.No.	Tender Clause No.	Sub-clause no./ Point no.	Original Clause	Modified clause
1	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1- (ix)	Bidder should propose a single unified system/Controller for fault management for all the active components.	Deleted
2	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type-I (SDN Category). Sr. no. 1	Minimum Ports (excluding /SFP/QSFP/QSFP28) from day one: 4x10/25G SFP28 & 8x1G SFP	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one: (4x10/25 G SFP28 & 8x1G SFP) OR (2x10/25G SFP28, 4x10SFP + & 8x1G SFP)
3	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 15(d)	Single Rate Three Color Policer RFC 2697	Deleted
4	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 29	Shall support Multi-chassis LAG or EVPN Multi-Homing	Shall support Multi-chassis LAG or Multi-Homing through L2VPN/VPLS/EVPN.
5	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 37 (i)	i) The system should support REST API for communication with third party tools and applications. In case of any software adaptor is required to support the same , same shall be provided along with Router.	The system should support REST API / NETCONF for communication with third party tools and applications. In case of any software adaptor is required to support the same , same must be provided along with Router.
6	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 43 (ii)	ii. Should support multiple Ring up to 8 ring (main and sub ring) protection failover with in 50 ms or ITU-T G.8032 v2.	Should support for multiple Rings, with Minimum 2 ring(main and sub ring) protection failover with in 50 ms or ITU-T G.8032 v2.
7	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 53 (i)	Router should have support of Ethernet VPN (EVPN with single homing, multi homing)	Router should have support of Ethernet VPN (with single homing & multi homing)."
8	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 53 (ii)	Router should have support of following features on EVPN: EVPN-IRB, EVPN VPWS, EVPN VPWS Preferred Path over SR-TE Policy	Router should have support of following features on EVPN: EVPN VPWS, EVPN VPWS Preferred Path over SR-TE Policy
9	Chapter-4 , 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 54	Should have power supply arrangement without any external adaptors with redundant/dual feeds power supply:Type-I & II & III -48 V DC supply (with the operating range of -48 to -60 VDC).	Router should have power supply arrangement without any external adaptors with 1+1 dual Power supply: Type-I & II & III -48 V DC supply (with the operating range of -48 to -60 VDC)

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S.No.	Tender Clause No.	Sub-clause no./ Point no.	Original Clause	Modified clause
10	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-I & Type- IV Ethernet Fiber Switch. Sr. no. 2	The Switch shall be available with minimum Switching Fabric. 1.80 Gbps for Type-I 2.160 Gbps for Type-IV	The Switch shall be available with minimum Switching Fabric. 1.48 Gbps for Type-I 2.120 Gbps for Type-IV
11	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-III Ethernet Fiber Switch (MPLS), Sr. no. 1	The switch should have minimum ports: Uplink Port: 2x40G QSFP28 and Client Port 12x10/25G SFP28.	The switch should have minimum ports: Uplink Port: 2x40G QSFP28 and Client Port 8x10/25G SFP28+8*1G/10G SFP/SFP+
12	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-II Ethernet Fiber Switch (MPLS) Sr. no. 2	The Switch shall be available with minimum Switching Fabric. 400 Gbps	The Switch shall be available with minimum Switching Fabric. 300 Gbps
13	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 2	The switch should support RJ-45 management port	The switch should support RJ-45 management port or through traffic port
14	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. , Sr. no. 5 under Quality of Service (QoS) Features:	The switch should support QOS based on Switch port, 802.1p priority queues, vLAN ID, MAC addresses, IPv4/IPv6 addresses, DSCP, ToS, Protocol type, TCP/UDP ports,IPv6 traffic class	The switch should support QOS based on Switch port, 802.1p priority queues, vLAN ID, MAC addresses, IPv4/IPv6 addresses, DSCP, ToS, Protocol type, TCP/UDP ports,IPv6 traffic class" or "Virtual Output Queueing (VOQ), Multilevel priority queuing, Classification based on L2/L3/L4 fields "
15	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 5, under management	It shall support SNMPv1, SNMPv2c, SNMPv3 & SSH/Telnet interface support to deliver comprehensive in-band management, and a CLI-based management console to provide detailed out-of-band management.	It shall support SNMPv1 / SNMPv2c, SNMPv3 & SSH/Telnet interface support to deliver comprehensive in-band management, and a CLI- based management console to provide detailed out-of- band management.
16	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 13, under Other features	To check support for Standard and Extended Access Lists	Switches (Type-I,II,III & IV) should support firewall Access Lists / ACL
17	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Sr.No. 3	The Switch shall support minimum MAC address. Type-III Ethernet Fiber Switch (MPLS)-32K	The Switch shall support minimum MAC address. Type-III Ethernet Fiber Switch (MPLS)-16K
18	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs.	S.no 7 SFP+ ER- 10G- 10G ----------5.	Optical Power Budget: 24db on 1310nm	Optical Power Budget: 22 db on 1310nm

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S.No.	Tender Clause No.	Sub-clause no./ Point no.	Original Clause	Modified clause
19	Chapter 4 2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 59 (ii)	The offered product of same series (having same OS & ASIC) should be supplied (during last 3 FY and current FY) as on date of opening of tender, in India in Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.	The offered product of same series (having the same Operating System (OS) and same make ASIC) should be supplied (during last 3 FY and current FY) as on date of opening of tender, in India in Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.
20	Chapter-4 , 2. Technical Specification: 2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 43, under Other features	The offered product of same series (having same OS & ASIC) should be supplied (during last 3 FY and current FY) as on date of opening of tender, in India in Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.	The offered product of same series (having the same Operating System (OS) and same make ASIC) should be supplied (during last 3 FY and current FY) as on date of opening of tender, in India in Government /PSUs/Telecom Service Providers (NLD or Class-A ISP)/Public Listed Company. Documentary evidence for same should be submitted along with offer.

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Response to Pre-Bid queries received against Tender No. RailTel/Tender/OT/CO/TP/2025-26/Rate Contract-Router & switches/05 dated 17.10.2025

S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
1	Section-I, Chapter-1: SOR	SOR-7	SFP28-ER/ZR-25G: 1. Optical distance- 40KM 2. Ethernet capacity-25Gbps 3. Type of connector- LC 4. Fiber Type-Single/Dual fiber on Single mode fiber. 5. Optical Power Budget: 24db on 1310 nm.	ZR 25G is not available, Kindly clarify SFP28-ER 40KM is acceptable here.		Either ER or ZR SFP28 is needed to be supplied. The tender technical specifications are self-explanator.Accordingly, no modifications are proposed . Bidder/OEM shall quote the SFP based on technical specifications defined in Tender .
2	Section-I, Chapter-1: SOR	SOR-8	SFP28-LR/ER-25G	Kindly clarify quantity of ER SFP and LR SFP		Either LR or ER SFP28 to be supplied. The tender technical specifications are self-explanatory. Accordingly, no modifications are proposed . Bidder/OEM shall quote the SFP based on technical specifications defined in Tender .
3	Section-I, Chapter-1: SOR	SOR-9	QSFP+-ER- 40G	Kindly confirm the required SFP is QSFP-40G-ER4		The tender technical specifications are self-explanatory. Accordingly, no modifications are proposed . Bidder/OEM shall quote the SFP based on technical specifications defined in Tender .
4	Section-I, Chapter-1: SOR	SOR-11	QSFP+- LR4-40G	Kindly confirm the required SFP is QSFP-40G-LR4		The tender technical specifications are self-explanatory. Accordingly, no modifications are proposed . Bidder/OEM shall quote the SFP based on technical specifications defined in Tender .
5	Section-I, Chapter-1: SOR	SOR-12	SFP+ -LR/ER-10G	Kindly confirm the required SFP is SFP+ -LR. Kndly also clarify quantity of ER-10G, if any.		The tender technical specifications are self-explanatory. Accordingly, no modifications are proposed . Bidder/OEM shall quote the SFP based on technical specifications defined in Tender .
6	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1(i)	(i) With 3-year warranty & 5 years of Long-Term Maintenance Support.	(i) With 3-year warranty & 4 years of Long-Term Maintenance Support.		The tender conditions self-explanatory. Accordingly, no modifications are proposed .
7	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1(x)	(x) 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.	(x) Bidder/OEM can also leverage existing Management system deployed in RailTel, if the OEM shall provide undertaking for long term support for 7 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.		The tender conditions self-explanatory. Accordingly, no modifications are proposed .
8	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1(ix)	(ix) Bidder should propose a single unified system/Controller for fault management for all the active components.	We understand this is for switch and router asked in this RFP		May please see Corrigendum-I
9	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1 xi(a)	a. The relevant or applicable TEC GR specs for the equipment sought under this tender (Router Type-I & II) as below: "1.Router Category V for Type-1 TEC/GR/IT/TCP- 006/01 AUG 2016 or Latest" "2.Router Category VI for Type- II TEC/GR/IT/TCP- 006/01 AUG 2016 or Latest"	This category (outer Category VI for Type- II) of router is chassis based router, and fully redundant category, as per TEC GR. As per Technical specs here, we understand this is fixed one.		As per Tender Condition , In case of a mismatch between tender clause and TEC GR clause, tender clause will prevail and in case of deviation from the TEC specifications, the compliance to relevant ITU-T specification shall be submitted by tenderer.

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S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
10	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1 xi(c)	c. The following sections are Not Applicable or Optional of TEC GR no. TEC/GR/IT/TCP-006/01 AUG 2016 or Latest.	Kindly allow this clause as optional: 3.13.2.7 IPv6 over PPP, of TEC GR no. TEC/GR/IT/TCP-006/01 AUG 2016		As per Tender Condition ,Proposed equipment must have at least 70% compliance of TEC GR by considering each sub-clause as one clause.
11	CHAPTER-4 TECHNICAL REQUIREMENTS & SPECIFICATIONS	1 (xii)	**(xii) Proposed equipment's against Ether Fiber switches (Type-I, II,III & IV) shall be complied (at least 70% compliance) with RDSO Specifications (RDSO/SPN/TC/83/2020 Revision 2.1 or Latest). In case of a mismatch between tender clause and RDSO Specifications, tender clause will prevail and in case of deviation from the TEC specifications, the compliance to relevant ITU- T specification shall be submitted by tenderer.**	Kindly confirm the section for this RDSO GR to be referred is 4.0 LAYER 3 SWITCH (24 Ports) SUITABLE FOR NORMAL NETWORK or any other section.		RDSO GR shall be referred is 5.0 LAYER 2 SWITCH (24 Ports).
12	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type-I (SDN Category). Sr. no. 1	Minimum Ports (excluding /SFP/QSFP/QSFP28) from day one: 4x10/25G SFP28 & 8x1G SFP	Minimum Ports (excluding XFP/SFP/QSFP/QSFP28) from day one: (4x10/25 G SFP28 & 8x1G SFP) OR (2x10/25G SFP28, 4x10SFP + & 8x1G SFP)		May please see Corrigendum-I
13	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type-I (SDN Category). Sr. no. 2	Minimum Total throughput (Full duplex): 60 Gbps	As per port configuration non blocking capacity should be 100 Gbps (full duplex). Kindly confirm.		No Modification is proposed. Minimum throughput is 60Gbps. Devices with high throughput are also accepted.
14	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- II (SDN Category). Sr. no. 1	Minimum Ports (excluding /SFP/QSFP/QSFP28) from day one.: (4x40/100G QSFP28 & 24x10/25G SFP28)	Kindly clarify, how many port to be offered with 25G, 10G, 40G, 100G. Kindly also clarify whether 25G is mandatory?		The tender conditions self-explanatory. As per Tender clause: minimum 4 Ports having capacity 40G/100G with QSFP28 Slots, and 24 Ports of 25G/10G. SFP28 Slots. Accordingly, no modifications are proposed .
15	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- II (SDN Category). Sr. no. 2	Minimum Total throughput (Full duplex): 280 Gbps	As per port configuration non blocking capacity should be minimum 400 Gbps (full duplex) to 800 Gbps (for higher capacity port). Kindly confirm.		No Modification is proposed. Minimum throughput is 280Gbps. Devices with high throughput are also accepted.
16	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- II (SDN Category). Sr. no. 10	Minimum Number of VLAN support: 1000	Kindly reduce to 500 and Bridge domain / Bridged virtual interface / VLAN		The tender conditions self-explanatory. Accordingly, no modifications are proposed .
17	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I (SDN Category). Sr. no. 12	Minimum Number of Mvrf	Kindly specify, mVRF requirement for Type-I, if required		No Modification is proposed.

S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
18	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 4	Proposed devices should be supported with STM-1,4,16 Smart optics or modules of 10km (Single mode). At least one Router in the proposed solution must support TSoP (Transport SDH over Packet) via STM-1,4,16 Smart SFP or modules and supported Router (anyone) should be equipped STM-4 Smart SFP (TSoP) or modules in day-1.	Proposed devices should be supported with STM-1,~~4,16~~ Smart optics or modules of 10km (Single mode). At least one Router in the proposed solution must support TSoP (Transport SDH over Packet) via STM-1,~~4,16~~ Smart SFP or modules and supported Router (anyone) should be equipped STM-1 4 Smart SFP (TSoP) or modules in day-1.		The tender conditions self-explanatory. Accordingly, no modifications are proposed . Third Party smart SFPs is also acceptable .
19	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 15)d)	d) Single Rate Three Color Policer RFC 2697	Kindly delete, as 2R3C is also asked in clause 15)e)		May please see Corrigendum-I
20	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 29	Shall support Multi-chassis LAG or EVPN Multi-Homing	Shall support Multi-chassis LAG or EVPN Multi-Homing or EVPN Single-Homing		May please see Corrigendum-I
21	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 37 (i)	i) The system should support REST API for communication with third party tools and applications. In case of any software adaptor is required to support the same , same shall be provided along with Router.	i) The system should support REST API / NETCONF for communication with third party tools and applications. In case of any software adaptor is required to support the same , same shall be provided along with Router.		May please see Corrigendum-I
22	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 43 (ii)	ii. Should support multiple Ring up to 8 ring(main and sub ring) protection failover with in 50 ms or ITU-T G.8032 v2.	ii. Should support multiple Ring up to 2 ring(main and sub ring) protection failover with in 50 ms or ITU-T G.8032 v2.		May please see Corrigendum-I
23	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 52 (i)	Router should be able to support SRv6 standards whenever it is firmed upt without any cost to RCIL.	SRv6 is a released standard and kindly clarify that SRv6 should be supported from day-1		The tender conditions self-explanatory. Accordingly, no modifications are proposed .
24	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 53 (i)	Router should have support of Ethernet VPN (EVPN with single homing, multi homing)	Router should have support of Ethernet VPN (EVPN with single homing / multi homing)		May please see Corrigendum-I
25	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 53 (ii)	Router should have support of following features on EVPN: EVPN-IRB, EVPN VPWS, EVPN VPWS Preferred Path over SR-TE Policy	Router should have support of following features on EVPN: ~~EVPN-IRB~~, EVPN VPWS, EVPN VPWS Preferred Path over SR-TE Policy		May please see Corrigendum-I

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S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
26	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 54	Should have power supply arrangement without any external adaptors with redundant/dual feeds power supply:Type-I & II & III -48 V DC supply (with the operating range of -48 to -60 VDC).	We would recommend to have 1+1 dual power supply for this type of high capacity, high port density router, instead of dual feed, as dual feed power supply generally internal single power supply with two feed. Whereas, 1+1 dual power supply is internal two separate power supply with two feed.		May please see Corrigendum-I
27	2. Technical Specification: 2.1 SOR-1 & 2: Router Type-I, II (SDN Category):	Router Type- I and II (SDN Category). Sr. no. 57	Bidder/OEM has to provide Training and OEM certification of at least 20 employees of RailTel for those devices (same series/family) which are not deployed in RailTel existing Network.	We understand training would be through OEM or OEM certified training partner. Also kindly clarify that OEM certification or participation certificate from OEM or OEM certified training partner		The tender conditions self-explanatory.
28	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-I & Type- IV Ethernet Fiber Switch. Sr. no. 1 and 2	1. Uplink Port: 4x10G SFP+ and Client Port :8x1G SFP for Type-I. 2. The Switch shall be available with minimum Switching Fabric. 1. 80 Gbps for Type-I	1. Uplink Port: 4x10G SFP+ and Client Port :8x1G SFP for Type-I. 2. The Switch shall be available with minimum Switching Fabric. 1. 48 Gbps for Type-I		May please see Corrigendum-I
29	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-I & Type- IV Ethernet Fiber Switch. Sr. no. 1 and 2	1. The switch should have minimum ports 2. Uplink Port: 4x10G SFP+ and Client Port :8x10G SFP+ for Type-IV. 2. The Switch shall be available with minimum Switching Fabric. 2. 160 Gbps for Type-IV	1. The switch should have minimum ports 2. Uplink Port: 4x10G SFP+ and Client Port :8x10G SFP+ for Type-IV. 2. The Switch shall be available with minimum Switching Fabric. 2. 120 Gbps for Type-IV Kindly clarify, as per port requirement, throughput is 120Gbps full duplex		May please see Corrigendum-I
30	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-III Ethernet Fiber Switch (MPLS), Sr. no. 1	1. The switch should have minimum ports Uplink Port: 2x40G QSFP28 and Client Port 12x10/25G SFP28.	Kindly reduce to 8 number of 10/25G ports from 12 numbers for larger participation. Uplink Port: 2x40G QSFP28 and Client Port 8x10/25G SFP28+8x10G.		May please see Corrigendum-I
31	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-II Ethernet Fiber Switch (MPLS) Sr. no. 2	2. The Switch shall be available with minimum Switching Fabric. 400 Gbps	Kindly reduce capacity from 400Gbps to 300 Gbps 2. The Switch shall be available with minimum Switching Fabric. 300 Gbps		May please see Corrigendum-I
32	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-III Ethernet Fiber Switch (MPLS) Sr. no. 2	2. The Switch shall be available with minimum Switching Fabric. 200 Gbps	Kindly increase capacity from 200Gbps to 300 Gbps, as there are multiple 40G and 25G ports are asked in the RFP. 2. The Switch shall be available with minimum Switching Fabric. 300 Gbps		The tender conditions self-explanatory.

S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
33	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-I & Type- IV Ethernet Fiber Switch. Sr. no. 4	Power supply arrangement of AC (100 to 240 V AC with 50 to 60 Hz) or DC (with the operating range of -48 to -60 VDC): Both AC & DC power supply option from Day-1	Kindly clarify that AC or DC single power is asked here. Also, kindly clarify, On Type-I and Type-IV, kindly clarify whether different device for AC model and different device for DC model is asked here.		The tender conditions self-explanatory.
34	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-II Ethernet Fiber Switch (MPLS) and Type-III Ethernet Fiber Switch (MPLS). Sr. no. 4	Power supply arrangement of AC (100 to 240 V AC with 50 to 60 Hz) or DC (with the operating range of -48 to -60 VDC): Redundant/dual feeds DC power supply	We would recommend to have 1+1 dual power supply for this type of high capacity, high port density router for Type-II&III.		The tender conditions self-explanatory.
35	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Type-I & Type- IV Ethernet Fiber Switch, Type-II and Type-III Ethernet Fiber Switch (MPLS). Sr. no. 6	Proposed devices should be supported with STM-1,4,16 Smart optics or modules of 10km (Single mode) in case required in future. At least one switch in the proposed solution must support TSoP (Transport SDH over Packet) via STM- 1,4,16 Smart SFP or modules in case required in future.	Proposed devices should be supported with STM-1,~~4,16~~ Smart optics or modules of 10km (Single mode). At least one Router in the proposed solution must support TSoP (Transport SDH over Packet) via STM-1,~~4,16~~ Smart SFP or modules and supported Router (anyone) should be equipped STM-1 4 Smart SFP (TSoP) or modules in day-1.		The tender conditions self-explanatory. Accordingly, no modifications are proposed . Third Party smart SFPs is also acceptable However proposed equipment should support the same .
36	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 2	The switch should support RJ-45 management port	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch or Traffic port with RJ45 SFP		May please see Corrigendum-I
37	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 2	The switch should support QOS based on Switch port, 802.1p priority queues, vLAN ID, MAC addresses, IPv4/IPv6 addresses, DSCP, ToS, Protocol type, TCP/UDP ports,IPv6 traffic class	"The switch should support QOS based on Switch port, 802.1p priority queues, vLAN ID, MAC addresses, IPv4/IPv6 addresses, DSCP, ToS, Protocol type, TCP/UDP ports,IPv6 traffic class" or "Virtual Output Queueing (VOQ), Multilevel priority queuing, Classification based on L2/L3/L4 fields"		May please see Corrigendum-I
38	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 5, under **management**	It shall support SNMPv1, SNMPv2c, SNMPv3 & SSH/Telnet interface support to deliver comprehensive in-band management, and a CLI-based management console to provide detailed out-of- band management.	It shall support SNMPv1 or SNMPv2c, SNMPv3 & SSH/Telnet interface support to deliver comprehensive in-band management, and a CLI- based management console to provide detailed out-of- band management.		May please see Corrigendum-I

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39	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 1, under **Other features**	Switch should support Surge Protection on power input and DDOS and Virus attack protection.	Switch should support Surge Protection on power input and "DDOS" Or Control-plane and management plane protection and Virus attack protection or "secure boot, image signing, run-time defense"		May please see Corrigendum-I
40	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 2, under **Other features**	Loopback Detection (LBD) & Flex-Link or any other industry equivalent protocol			The tender conditions self-explanatory.
41	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 3, under **Other features**	It should support 63 IP interface, 8 loopback interfaces and Intervlan routing For Type-I & IV, It should support 32 IP interface, 8 loopback interfaces and Inter vlan routing	Too less compared to industry standard, recomend to have IP interface: 12K in Type-I, IV.. 32K for Type-II, 128K for Type-III		No Changed is Proposed
42	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 6, under **Other features**	Switch must support Zero Touch Deployment feature so that it can automatically obtain IP address and configuration file from remote server	generally ZTP feature require additional set-up for deployment. Whether ZTP setup is required to be deployed from day-1?		The tender conditions self-explanatory.
43	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 13, under **Other features**	To check support for Standard and Extended Access Lists	To check support for Standard and Extended Access Lists / ACL		May please see Corrigendum-I
44	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 42, under **Other features**	Bidder/OEM has to provide Training and OEM certification of at least 20 employees of RailTel for those devices (same series/family) which are not deployed in RailTel existing Network.	We understand training would be through OEM or OEM certified training partner. Also kindly clarify that OEM certification or participation certificate from OEM or OEM certified training partner		The tender conditions self-explanatory.
45	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS)	Features Required for Type-I, Type-II and Type-III Ethernet Fiber Switch. Sr. no. 42, under **Other features**	Bidder can propose Router based solution against requirement of ethernet fiber switch of Type- I, Type-II ,III & IV.	We understand that router based solution can offer equivalent feature based on router which are specific to switch		The tender conditions self-explanatory.

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46	5	Section-I, Chapter-1	Schedule of Requirements	We kindly request confirmation on the scope of work. As per our understanding based on the Price Bid, the scope is limited to the supply of equipment, along with installation and commissioning under RailTel's purview. Please confirm if this understanding is correct.	Please confirm if our understanding is correct	The tender conditions self-explanatory.
47	59	2.3 SOR-7 to 13 SFPs	**SN 1) SFP28-ER/ZR -25G** 1.Optical distance-40KM 2.Ethernet capacity-25Gbps 3.Type of connector-LC 4.Fiber Type-Single/Dual fiber on Single mode fiber. 5. Optical Power Budget: 24db on 1310 nm.	**1. Optical distance- 40KM----------** **--Please clarify requirement is of ER (40km) or ZR(80km), as in description both ER and ZR variants is mentioned . Also ER and ZR has different commercial value** **4. Fiber Type-Single/Dual fiber on Single mode fiber.------ ----------** **Please clarify requirement is of Single fiber or dual fiber as bothhas different commercial value, also Single fiber is available only in ER not in ZR** **5. Optical Power Budget: 24db on 1310 nm.----------Power budget is ok for ZR but for ER it will be 18db**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
48	59	2.3 SOR-7 to 13 SFPs	**SFP28-LR/ER-25G** 1.Optical distance-10KM to 40KM 2.Ethernet capacity-25Gbps 3.Type of connector-LC 4.Fiber Type-single fiber on Single mode fiber. 5.Optical Power Budget: 18db on 1310nm.	**1. Optical distance-10KM to 40KM--------- Please clarify requirement is of LR (10km) or ER(40km), as in description both LR and ER variants is mentioned . Also LR and ER has different commercial value**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
				4.Fiber Type-single fiber on Single mode fiber.-------- Please clarify requirement is of Single fiber or dual fiber as both has different commercial value	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
				5 .Optical Power Budget: 18db on 1310nm.-------- Power budget is ok for ER but for LR it will be 7db	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
49	59-60	2.3 SOR-7 to 13 SFPs	**QSFP+-ER 40G** 1.Optical distance-40KM 2.Ethernet capacity-40Gbps 3.Type of connector-LC 4.Fiber Type-single/Dual fiber on Single mode fiber. 5.Optical Power Budget: 18db on 1310nm.	**4. Fiber Type-single/Dual fiber on Single mode fiber.-------- .------- in 40G only dual fiber available**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
				4.Fiber Type-single/Dual fiber on Single mode fiber-------- Please clarify requirement is of Single fiber or dual fiber as both has different commercial value	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .

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50	60	2.3 SOR-7 to 13 SFPs	**QSFP+ LR4-40G** 1.Optical distance-10KM 2.Ethernet capacity-40Gbps 3.Type of connector LC 4.Fiber Type-single/Dual fiber on Single mode fiber.	**8. Fiber Type-single/Dual fiber on Single mode fiber.---------- in 40G only dual fiber available**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
51	60	2.3 SOR-7 to 13 SFPs	**SFP+-LR/ER- 10G** 1.Optical distance-10 to 40 KM 2.Ethernet capacity-10Gbps 3.Type of connector-LC 4.Fiber Type-single fiber on Single mode fiber. 5.Optical Power Budget: 18db on 1310nm. 6. Should provide SFPs in Pair (BX U & D) against each SOR-12 qty.	**1. Optical distance-10 to 40 KM---------- Please clarify requirement is of LR (10km) or ER(40km), as in description both LR and ER variants is mentioned . Also LR and ER has different commercial value**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
				5. Optical Power Budget: 18db on 1310nm.-------- Power budget is ok for ER but for LR it will be 14db and also wavelength for Single fiber will 1270NM/1330NM	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
				6. Should provide SFPs in Pair (BX U & D) against each SOR-12 qty.---------Please confirm requirement is of 1326 pair or 663 pair	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
52	60	2.3 SOR-7 to 13 SFPs	**SFP+ ER- 10G** 1.Optical distance-40 TO 60KM 2.Ethernet capacity :10 Gbps 3.Type of connector-LC 4.Fiber Type-single fiber on Single mode fiber 5.Optical Power Budget: 24db on 1310nm. 6. Should provide SFPs in Pair (BX U & D) against each SOR-13 qty.	**1. Optical distance-40 TO 60KM ---------Please clarify requirement is of 40km or 60km, as in description both 40 km and 60 variation is mentioned . Also 40km and 60km has different commercial value**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
53	60			**7. Optical Power Budget: 24db on 1310nm.---------- Power budget is for 60km should be 22 db and for 40km it will be 18db and also wavelength for Single fiber will 1270NM/1330NM**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .
54	60			**5. Should provide SFPs in Pair (BX U & D) against each SOR-13 qty.---------- Please confirm requirement is of 1748 pair or 874 pair**	Kindly clarify and Confirm for further considertaion and finalise the product	Type of SFPs shall be quoted based on Technical Specfications defined in Tender .

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55	72	7.5 Inspection:	7.5.1 The supplier/manufacturer shall give a call for inspection within six weeks of issue of Sub PO when the material is ready to be supplied and ready for inspection. The Inspection shall be carried out at supplier's/Manufacturer's facility in India by the Inspecting Authority. The supplier shall make available for inspection all types of equipment's in sufficient numbers so as to create a test setup for carrying out various tests as per the approved test plan and test setup. If equipment is imported, equipment required for test setup only shall be brought to India in the first lot. Balance material shall be dispatched only after inspected material has been cleared and inspection certificate issued. 7.5.2 The supplier/manufacturer shall submit along with inspection call the details of test procedures, test programs, test parameters together with permitted values, etc., and their Quality Assurance Plan. 7.5.3 In case material/equipment fails during inspection, the fresh lot of same material/ equipment shall be offered without any extra cost,	7.5.1 The supplier/manufacturer shall give a call for inspection within **ten** weeks of issue of Sub PO when the material is ready to be supplied and ready for inspection. The Inspection shall be carried out at supplier's/Manufacturer's facility in India by the Inspecting Authority. The supplier shall make available for inspection all types of equipment's in sufficient numbers so as to create a test setup for carrying out various tests as per the approved test plan and test setup. If equipment is imported, equipment required for test setup only shall be brought to India in the first lot. Balance material shall be dispatched only after inspected material has been cleared and inspection certificate issued. 7.5.2 The supplier/manufacturer shall submit along with inspection call the	Since due to ongoing Geographical Tensions, there is huge gap between demand and supply, therefore request you to please consider our request for extending the delivery and project timelines.	No Changed is Proposed
			7.5.5 The material should be offered for inspection within six weeks of issue of purchase order. Travelling, lodging and boarding expenses of RailTel representative and charges for third party inspection if any shall be borne by RailTel, but necessary facilities to carry out test /witness inspection shall be provided by the manufacturer/supplier, free of cost 7.5.6 The manufacturer shall maintain stock register (receipt, issue and balance) and defect records for the raw material. The defect records shall be in standard formats and it shall be complied on a daily/ weekly/ monthly basis and it shall be analyzed. "NIL" Report shall be segregated from the accepted material. First-in First-out concept shall be implemented in foolproof manner. The batches of the raw material	7.5.5 The material should be offered for inspection within **ten** weeks of issue of purchase order. Travelling, lodging and boarding expenses of RailTel representative and charges for third party inspection if any shall be borne by RailTel, but necessary facilities to carry out test /witness inspection shall be provided by the manufacturer/supplier, free of cost. 7.5.6 The manufacturer shall maintain stock register (receipt, issue and balance) and defect records for the raw material. The defect records shall be in standard formats and it shall be complied on a daily/ weekly/ monthly basis and it shall be analyzed. "NIL"		no Changed is Proposed
56	17	3.2 Delivery Period:	Material is required to be delivered by the supplier at the location/consignee within 120 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 **180 days** from the date of issue of each Sub-PO issued against Advance Purchase order.	Since due to ongoing Geographical Tensions, there is huge gap between demand and supply, therefore request you to please consider our request for extending the delivery and project timelines.	No Changed is Proposed
57	36	2.1 SOR-1 & 2: Router Type-I, II (SDN Category) (4)	Proposed devices should be supported with STM- 1,4,16 Smart optics or modules of 10km (Single mode). At least one Router in the proposed solution must support TSoP (Transport SDH over Packet) via STM-1,4,16 Smart SFP or modules and supported Router (anyone) should be	Kindly remove this clause for wider OEM participants.	With reference to earlier RFP, this clause was deleted.	The tender conditions self-explanatory. Accordingly, no modifications are proposed . Third Party smart SFPs is also acceptable .

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58	47	2.1 SOR-1 & 2: Router Type-I, II (SDN Category) (59)	IV. System shall be supplied with SDN-Controller/EMS/NMS of same OEM and same should provide latest APIs, which shall further facilitate multivendor interoperability using latest APIs. System shall support configuration management, open APIs, and standards-based SNMP/YANG models. These management features should be available at no cost to RailTel.	Bidder/OEM can also leverage existing Management system deployed in RailTel by procuring additional Harwdare and Software Licenses. Kindly clarify.		Yes ,Bidder/OEM can also leverage to use existing Management system deployed in RailTel by procuring additional Harwdare and Software Licenses.
59	48	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS) (6)	Proposed devices should be supported with STM-1,4,16 Smart optics or modules of 10km (Single mode) in case required in future. At least one switch in the proposed solution must support TSoP (Transport SDH over Packet) via STM- 1,4,16 Smart SFP or modules in case required in future.	Kindly remove this clause for wider OEM participants.	With reference to earlier RFP, this clause was deleted.	The tender conditions self-explanatory. Accordingly, no modifications are proposed . Third Party smart SFPs is also acceptable .
60	48	2.2 SOR-3, 4 ,5 & 6: Type-I, II, III and IV Ethernet Fiber Switch (MPLS) (3)	The Switch shall support minimum MAC address. Type-III Ethernet Fiber Switch (MPLS)-32K	Kindly amend this clause for wider OEM participants. Minimum MAC Table Size:16K	With refernce to earlier RFP, the required MAC address was 16K.	May please see Corrigendum-I
61	33	Chapter-4 Clause 1. (ix)	Bidder should propose a single unified system/Controller for fault management for all the active components.	We request you to allow two ems solution. One for routers & one for switches.		Clause is deleted
62			Bidder/OEM should provide professional training (20 Man week) and professional OEM support services for integration of equipment with existing Network.	1) Is online training permitted? 2) Integration services are required as per our understanding. But commercials are not factored for these services. Can commercials for services also be included?		The tender conditions self-explanatory.
63	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 1 SFP28-ER/ZR -25G--------1. Optical distance- 40KM---	Please clarify requirement is of ER (40k	As in description both ER and ZR variants is mentioned . Also ER and ZR has different commercial value	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
64	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 1 SFP28-ER/ZR -25G--------4. Fiber Type-Single/Dual fiber on Single mode fiber.-	Please clarify requirement is of Single fi	As both has different commercial value, also Single fiber is available only in ER not in ZR	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
65	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 1 SFP28-ER/ZR -25G--------5. Optical Power Budget: 24db on 1310 nm	Power budget is ok for ZR but for ER i	Power buddget is varies as per the distance of the SFP's	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
66	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 2 SFP28-LR/ER-25G--------1. Optical distance-10KM to 40KM--	Please clarify requirement is of LR (10k	As in description both LR and ER variants is mentioned . Also LR and ER has different commercial value	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
67	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 2 SFP28-LR/ER-25G--------4.Fiber Type-single fiber on Single mode fiber	Please clarify requirement is of Single fi	As both has different commercial value	Type of SFPs should be quoted based on Technical Specfications defined in Tender .

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68	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 2 SFP28-LR/ER-25G--------5 .Optical Power Budget: 18db on 1310nm.	Power budget is ok for ER but for LR i	Power buddget is varies as per the distance of the SFP's	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
69	59	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 3 QSFP+-ER 40G--------4 Fiber Type-single/Dual fiber on Single mode fiber	in 40G only dual fiber available	in 40G only dual fiber available	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
70	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 4 QSFP28 LR4 - 100G--------4 Fiber Type-single/Dual fiber on Single mode fiber	Please clarify requirement is of Single fi	as both has different commercial value	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
71	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 5 QSFP+ LR4-40G --------4 Fiber Type-single/Dual fiber on Single mode fiber	in 40G only dual fiber available	in 40G only dual fiber available	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
72	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 6 SFP+-LR/ER- 10G --------1 Optical distance-10 to 40 KM	Please clarify requirement is of LR (10	As in description both LR and ER variants is mentioned . Also LR and ER has different commercial value	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
73	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 6 SFP+-LR/ER- 10G --------5 Optical Power Budget: 18db on 1310nm.	Power budget is ok for ER but for LR it will be 14db and also wavelength for Single fiber will 1270NM/1330NM	Power buddget is varies as per the distance of the SFP's	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
74	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 6 SFP+-LR/ER- 10G --------6 Should provide SFPs in Pair (BX U & D) against each SOR-12 qty	Please confirm requirement is of 1326 p	In tender QTY mentioned in Nos and in technical specificatiosn it is mentioned Pair	Qty shall be quoted based on Technical Specfications defined in Tender .
75	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 7 SFP+ ER- 10G- 10G --------1 Optical distance-40 TO 60KM -	Please clarify requirement is of 40km or 60km,	as in description both 40 km and 60 variation is mentioned . Also 40km and 60km has different commercial value	Type of SFPs should be quoted based on Technical Specfications defined in Tender .
76	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 7 SFP+ ER- 10G- 10G --------5. Optical Power Budget: 24db on 1310nm	Power budget for 60km should be 22 db and for 40km it will be 18db and also wavelength for Single fiber will 1270NM/1330NM	Power buddget is varies as per the distance of the SFP's	It is proposed that this clause be amended to read as: " Optical Power Budget: 22 db on 1310nm"
77	60	Chapter 4 Technical Specification	Chapter 4 Technical Specification 2.3 SOR-7 to 13 SFPs. S.no 7 SFP+ ER- 10G- 10G --------6. Should provide SFPs in Pair (BX U & D) against each SOR-13 qty.	Please confirm requirement is of 1748 p	In tender QTY mentioned in Nos and in technical specificatiosn it is mentioned Pair	Qty shall be quoted based on Technical Specfications defined in Tender .
78	5	SOR Note 1	Note: 1. APO/BPO will be given initially and Sub PO may be issued depending upon the business requirement of RailTel.	As per SOR Note 1, APO/BPO will be issued initially and Sub-POs may be issued depending upon business requirement. Request clarification on minimum guaranteed quantity to safeguard bidder's resource planning and pricing commitments.	Absence of minimum guaranteed quantity creates financial and inventory risk for bidders. **Request:** Kindly define minimum guaranteed off-take quantity.	The tender conditions self-explanatory.

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79	8	Information to Bidder, Clause 8	8. Tenderer should provide the details of all possible supported interfaces/ modules/ cards/ SFPs/ XFPs/ Licenses etc. for the offered equipment which may be required for the network, if any at later stage, will be provided by vendor to RailTel free of cost.	Clause 8 states that all possible supported interfaces/modules/licenses required at a later stage for the offered equipment must be provided by the vendor free of cost. Please clarify/limit this open-ended commitment to: (a) Only free software licenses required to activate the base features of the supplied hardware, and (b) Exclude the provision of physical hardware (modules/cards/SFPs) free of cost at a later stage.	This clause imposes an unquantifiable and substantial financial risk and future liability on the bidder for potentially supplying expensive physical hardware (modules, cards, SFPs) free of cost at an unknown future date. **Request: 8.** Tenderer should provide the details of all possible supported interfaces/ modules/ cards/ SFPs/ XFPs/ Licenses etc. for the offered equipment which may be required for the network, if any at later stage, will be provided by vendor to RailTel free of cost upto a cap of 10% of the respective SOR.	The tender conditions self-explanatory.
80	9 & 5	Clause 8.28, Chapter-8 & Chapter-1,SOR Table	Clause 8.28 Chapter-8 : Warranty 36 months from date of Supply. Total Price for 5 Years with Tax (In Rs.)	The Warranty Period is 36 months from date of Supply , and the Price Schedule includes a column for 5 Years of AMC. Please clarify if the quoted AMC cost should cover only the post-warranty period (Years 4 and 5), or if it must cover the full 5 years, and if so, what enhanced/differentiated services are provided during the 3-year warranty period.	The 5-year AMC period clearly overlaps with the 3-year warranty period. This commercial risk needs to be quantified to avoid pricing the first three years of service twice or overscoping the services during the warranty period.	The tender conditions self-explanatory. Please refer Tender clause: 3.8.1 Page 23.
81	9	Clause 7.2, Chapter-7	Clause 7.2, Chapter-7 Purchaser's Right to Vary Quantities (A) Upto maximum extent of +/- 50% subject to following condition i. Upto +25% with no rebate. ii. From +25% to +40% with 2% rebate iii. From +40% to +50% with 4% rebate **(B) For variation beyond +50% of the quantity mentioned in the SOR may be done after proper negotiation with the selected bidder.**	Considering the Rate Contract model allows quantity variation up to a maximum reduction of 50%, please confirm the compensation/protection mechanism for the bidder if the ordered quantity is significantly reduced (e.g., only 50% of SOR quantity is ordered) to mitigate the inventory/capacity planning risk.	A maximum quantity reduction of 50% is a substantial commercial risk for a rate contract. Bidders plan capacity and possibly stock inventory based on the SOR quantity, and protection is needed for costs incurred for unordered quantities. **Request:** Clause 7.2, Chapter-7 Purchaser's Right to Vary Quantities (A) Upto maximum extent of +/- 50% subject to following condition i. Upto +25% with no rebate. ii. From +25% to +40% with 2% rebate iii. From +40% to +50% with 4% rebate (B) For variation beyond +50% or -25% or above of the quantity mentioned in the SOR may be done after proper negotiation with the selected bidder.	The tender conditions self-explanatory.

<table>
<tr><th>S. No.</th><th>Page No.</th><th>Tender Clause No.</th><th>Tender Clause</th><th>Bidders Query</th><th>Justification/ Reason</th><th>RailTel's Response</th></tr>
<tr><td>82</td><td>28</td><td>3.13 Clarification Requests:</td><td>It is solicited that the written queries/ clarifications may be sent to the RailTel's office latest by date as indicated in the Bid Data sheet (BDS) through e-mail to deeptichauhan@railtelindia.com & himanshu@railtelindia.com (in word format) & hard copy by post.</td><td>Clarification on the process for raising pre-bid queries – can queries be submitted by email only, or is hard copy/post mandatory? Please clarify.</td><td>To avoid confusion and missed communications, especially with tight timelines and reliance on digital channels.

Request:

It is solicited that the written queries/ clarifications may be sent to the RailTel's office latest by date as indicated in the Bid Data sheet (BDS) through e-mail to deeptichauhan@railtelindia.com & himanshu@railtelindia.com (in word format) or hard copy by post.</td><td>The tender conditions self-explanatory.</td></tr>
<tr><td rowspan="3">83</td><td rowspan="3">29, 70</td><td rowspan="3">3.18 & 7.7</td><td>3.18 Replacement Services:</td><td rowspan="3">Penalties for delayed replacement: The schedule imposes up to 100% deduction after four weeks. Request grace period and capped penalty (not exceeding 10% of equipment value).</td><td>To avoid excessive/liquidated damages and give vendors a practical time window for replacements, factoring external logistics, customs delays.
The Department should take action inline with Clause 7.7 mentioned in this RFP.</td><td>No Changed is Proposed</td></tr>
<tr><td>
<table>
<tr><th>Equipment</th><th>Duration of repair</th><th>Deduction/ Penalties</th></tr>
<tr><td>All Modules and accessories</td><td>More than one week and up to two weeks (from the date of receipt)</td><td>10% of the cost of affected part/module</td></tr>
<tr><td>All Modules and accessories</td><td>More than two weeks and up to three weeks (from the date of receipt)</td><td>25% of the cost of affected part/module</td></tr>
<tr><td>All Modules and accessories</td><td>More than three weeks and up to four weeks (from the date of receipt)</td><td>75% of the cost of affected part/module</td></tr>
<tr><td>All Modules and accessories</td><td>More than four weeks (from the date of receipt)</td><td>Full cost of affected part/module RailTel may terminate the contra this case.</td></tr>
</table>
</td><td>
<table>
<tr><th>Equipment</th><th>Duration of repair</th><th>Deduction/ Penalties</th></tr>
<tr><td>All Modules and accessories</td><td>More than one week and (from the date of receipt)</td><td>1% of the cost of affected part/module</td></tr>
<tr><td>All Modules and</td><td>More than two weeks</td><td>2.5% of the cost of</td></tr>
<tr><td>All Modules and</td><td>More than three weeks</td><td>7.5% of the cost of</td></tr>
<tr><td>All Modules and accessories</td><td>More than four weeks (from the date of receipt)</td><td>10% of the cost of affected part/module.</td></tr>
</table>
</td><td>No Changed is Proposed</td></tr>
<tr><td colspan="4">7.7 (C) c) Recover from the Contractor as agreed liquidated damages and not by way of penalty a sum equivalent to half per cent of the price of any stores (including elements of taxes, duties, freight, etc.) which the Contractor has failed to deliver within the period fixed for delivery in the contract or as extended for each week or part of a week during which the delivery of such stores may be in arrears where delivery thereof is accepted after expiry of the aforesaid period The upper limit for recovery of liquidated damages will be 10% (Ten Percent) of Total contract value provided in the contract</td><td>No Changed is Proposed</td></tr>
</table>

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S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
84	24	3.8.2	3.8.2 Bidder shall be paid @ 5% (minimum) of supply cost (basic price excluding taxes, levies and all other charges) per annum towards Long Term Maintenance Support after completion of warranty period, to undertake repairs/replacements of all type of module/card/assembly/subassembly and update/upgrade of software released during this period and /or which may fail in the network after the warranty. Taxes will be as per actual at the time of execution of the AMC i.e. issue of AMC LOA. If the bidder quotes higher than 5%, he will be paid at his quoted rate per annum. Total AMC cost for five years will be taken for evaluation purpose. AMC would have to be valid for minimum period of 5 years after completion of warranty. In case a bidder quotes AMC rates lower than 5% and if the bidder wins the contract, his cost against supply items will be reduced by differential (w.r.t. 5%) of AMC rates & he will be paid accordingly against the cost of supply. AMC charges to him, however, will be paid only @ 5% per annum	Payment of AMC is capped at 5% even if a bidder quotes lower; will RailTel agree to up-rating of supply price to balance overall offer, and how will this be managed contractually?	Ensures fair evaluation and protects bidder's commercial interests.	No Changed is Proposed
85	24	3.8.3	Value of PBG will be 10% of the value of issued PO/LOA for AMC.	PBG value is considerably higher inline with market standards.	Request you to reduce it upto 5%, as standard. **Request**:Value of PBG will be 5% of the value of issued PO/LOA for AMC.	No Changed is Proposed
86	3	E-Tender Notice	d) Opening of e-bids 20.11.2025 at 15:30 hrs.	We request an extension of the bid opening date to allow adequate time for detailed review of tender requirements and preparation of a comprehensive proposal.	Request you to extend the bid opening date to at least 20 working days from the date of corrigendum release.	May please see Corrigendum-I
87	Page No. 40	33 (C)	UL 60950-1 Information Technology Equipment–Safety	Mandatory UL / CSA Certification or any other similar Foreign Certification without specifying any equivalent Indian Certification as alternative in procurement of Electronic Devices is treated as Restrictive and discriminatory eligibility criteria/ Tender conditions as per Govt of India Notification P-45014/33/2021-BE-II (E64737) Dated 20th December 2022.	As per the latest Government of India notifications and Public Procurement (Preference to Make in India) policy guidelines, the requirement of foreign-origin certifications such as UL) must not be mandated in government tenders for telecom, networking, equipment. UL certification is not a statutory or mandatory requirement under any Indian standard or regulatory framework. Instead, products are required to comply with DOT or other Indian notified standards, as specified by the concerned ministries.Therefore, the UL Certification clause must be removed from the tender specifications to align with current government policy promoting Make in India and to ensure a level playing field for indigenous manufacturers. Routers must have MTCTE and ITSAR Certification. **Request:** The device must have MTCTE Certification with ITSAR	Equivalent certifications issued by Govt of India agency or India Labs shall also be allowed for the same.

S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
88	Page No. 44	44	The operating system of the Routers category/series/family should be MEF-9/14 or CE(Carrier Ethernet) or MEF 3.0 Certified.	As per the Department of Telecommunications (DoT) guidelines and the Railway Board letter dated 8th April 2025, all Routers used in telecom and network applications must be MTCTE certified under the Mandatory Testing and Certification of Telecom Equipment (MTCTE) scheme and accompanied by a valid ITASR Certificatee MTCTE certified with ITASR Certificate.	There is no guidline from DOT or Railway board mandating any foreign certification . As per DOT /Railway Board guidline, Router must have MTCTE along with ITSAR Certificate. These are the only mandatory certifications recognized by the Government of India for telecom and networking products. **Request:** The device must have MTCTE Certification with ITSAR	1. The offered telecom products must possess valid MTCTE (Mandatory Testing and Certification of Telecom Equipment) certification and ITSAR (Indian Telecom Security Assurance Requirements), wherever applicable, in accordance with the prevailing Government of India policy. These certifications must be in place at the time of delivery. 2. Equivalent certifications of MEF issued by Govt of India agency or India Labs shall also be allowed for the same OR compliance to MEF-9/14 or CE(Carrier Ethernet) or MEF 3.0 Certified shall also be allowed.
89	Page No. 25	3.10.1	Local Content	As per the latest Gazette Notification No. CG-DL-E22102024-258138 dated 21st October 2024,Network Switches and Routers are classified as telecom products with a mandatory Local Content (LC) requirement of 60% under the Public Procurement (Preference to Make in India) Policy. However, this requirement is not reflected in the current tender document, and we request that it be incorporated to ensure compliance with the Gazette and to promote indigenous manufacturing as envisaged under the Aatmanirbhar Bharat initiative.	As per the latest Gazette Notification No. CG-DL-E-22102024-258138 dated 21st October 2024, Network Switches and Routers fall under the category of telecom products with a mandatory Local Content (LC) requirement of 60%. Therefore, the tender document must explicitly mention this LC requirement in compliance with the Gazette notification and the Public Procurement (Preference to Make in India) Policy. **Request:**"Network Switches and Routers must meet a minimum Local Content (LC) of 60% as per the latest DPIIT Gazette Notification No. CG-DL-E-22102024258138 dated 21st October 2024, in accordance with the Public Procurement (Preference to Make in India) Policy."	1.Local Content will be applicable as per latest Public Procurement (Preference to Make in India) Policy issued by DPIIT & DOT.
90	Page No. 35	2	The offered device shall have 4×40/100G QSFP28 and 24×10/25G SFP28 interfaces, and shall support minimum 280 Gbps full-duplex throughput.	The specified port combination and the mentioned throughput value appear technically misaligned based on standard interface capacities.	As per standard port speeds (4×100G + 24×25G ≈ 1 Tbps aggregate capacity), the required "280 Gbps full-duplex throughput" appears disproportionately low. It is unclear whether this throughput refers to per-direction or aggregate bidirectional capacity. We request clarification to ensure technical compliance and proper benchmarking. **Request:** It is proposed to clarify that throughput requirement refers to aggregate bidirectional performance, or alternatively revise throughput to not less than 500 Gbps full-duplex, aligned with offered interface capacity	The tender conditions self-explanatory. Accordingly, no modifications are proposed .

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S. No.	Page No.	Tender Clause No.	Tender Clause	Bidders Query	Justification/ Reason	RailTel's Response
91	Page No. 35	5	Minimum IPv6 RIB/FIB = 16K / 8K (as per current Type-2 clause)	This value is lower than the Type-1 router IPv6 RIB/FIB value (20K / 10K). Type-2 is a higher tier (aggregation/core) device and should not have lower IPv6 FIB capacity than Type-1. This is inconsistent with expected role/hierarchy and will limit IPv6 scalability for aggregation/core routers.	Request clarification / amendment: Please confirm whether the current figures are intended. If not intended, amend the specification so that Type-2 IPv6 RIB/FIB is at least equal to Type-1. Justification: Type-2 routers serve higher aggregation/core roles and must support equal or greater IPv6 route scale to maintain routing stability and future growth. **Request:**Option A (minimum fix): Revise Type-2 IPv6 RIB/FIB to ≥ 20K / 10K (i.e., at least equal to Type-1). Option B (recommended / future-proof): Revise Type-2 IPv6 RIB/FIB to ≥ 64K / 32K to align with higher aggregation/core scale and expected IPv6 growth. (Vendors may propose equal or higher values with supporting datasheet proof.)	The tender conditions self-explanatory. Accordingly, no modifications are proposed .
92	Page No. 48	6	At least one switch in the proposed solution must support TSoP (Transport SDH over Packet) via STM-1/4/16 Smart SFP or modules in case required in future.	Typically, Ethernet switches are designed for packet-based transport (L2/L3), not TDM/SDH circuit emulation. STM or TSoP support is a routerclass function and not native to data center or aggregation switches. Even Smart-SFP-based STM encapsulation solutions (CESoPSN, SAToP) require a router or device with packet clock recovery and synchronization support.	Request for clarification and amendment: Please clarify the technical intent of this clause. If the requirement is for TDM/SDH handoff or circuit emulation, it should apply to Type-I or Type-II routers, not Ethernet switches. We recommend re-evaluating or removing this clause from the switch specifications to maintain technical relevance and avoid unnecessary cost or complexity. **Request:** Proposed Clause: Delete STM/TSoP requirement from switch specifications OR Rephrase as: "At least one router in the proposed solution shall support TSoP (Transport SDH over Packet) via STM1/4/16 Smart SFP or modules in case required in	The tender conditions self-explanatory. Accordingly, no modifications are proposed . Third Party smart SFPs is also acceptable.