

Annexure-I

SN	Chapter No.	Page No.	Clause / Sub Clause No.	Clause Description	Change requested	Query	RailTel Response
1			Clause 6.1 Tier-4 Routers(4X100G and 24X10G) - (Item no. 6 of SOR)	Should comply to NEBS Level 3 specifications. / Equivalent TEC QM 333 or latest specification	Should comply to NEBS specifications. / Equivalent TEC QM 333 or latest specification	Please modify clause for wider participation.	No Change is Proposed
2			Clause 22.f Tier-3 Routers(8X100G) - (Item no. 7 of SOR)	RFC 4105 Support for Inter-Area TE	RFC 4105 Support for Inter-Area TE (or should be in roadmap)	Please modify the clause for wider participation	Please see Corrigendum-VII
3			Clause 28 Tier-3 Routers(8X100G) - (Item no. 7 of SOR)	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.	The proposed router should be NEBS 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.	Please modify the clause for wider participation	No Change is Proposed
4			Clause 35 Tier-3 Routers(8X100G) - (Item no. 7 of SOR)	The operating system of the Routers category/series/family should be MEF-9/14 or CE(Carrier Ethernet) or latest Certified/compliant if not then roadmap for the same shall be submitted at the time of bidding.	The operating system of the Routers category/series/family should be MEF-9/14 or CE(Carrier Ethernet) or latest Certified/aligned if not then roadmap for the same shall be submitted at the time of bidding.	Please modify the clause for wider participation	No Change is Proposed
5			Clause 29 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It shall support Optical Transceiver Digital Diagnostic Monitoring and link layer monitoring through , support 802.3ah or UDLD/IPSLA	It shall support Optical Transceiver Digital Diagnostic Monitoring and link layer monitoring through , support 802.3ah or UDLD/IPSLA/ TWAMP	TWAMP is similar open IETF standard. Please allow TWAMP as option for wider participation.	Please see Corrigendum-VII
6			Clause 45 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It shall support IMPB, DHCP snooping, IPSG and dynamic ARP inspection	It shall support IMPB, DHCP snooping, IPSG and dynamic/Static ARP inspection	please modify clause for wider participation.	Please see Corrigendum-VII
7			Clause 57 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It shall have Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination	It shall have Layer 3 traceroute to ease troubleshooting by identifying the physical path that a packet takes from source to destination	trace route is a open standards based layer-3 feature. layer-2 trace is not a standard and doesn't not work in multi- oem environment.	No Change is Proposed
8			Clause 60 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It shall support RMON v1 and v2 standards and 4 RMON groups	It shall support RMON / SNMPv3	please modify for wider participation. RMON is a very old technology.	No Change is Proposed
9			Clause 64 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	Switch should support Surge Protection to ± 2 kV (line-earth) and ± 2 kW (line-line) on power input	-- please remove	please remove clause for wider participation.	No Change is Proposed

10			Clause 65 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	Loopback Detection (LBD	Loopback Detection (LBD) or STP	Spanning tree is open interoperable mechanism to detect loops and so LBD is not required separately. please modify for wider participation.	No Change is Proposed
11			Clause 77 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It should support Ethernet Ring Protection Switching ERPS v1 and 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.	-- please remove	please remove clause for wider participation. Rapid spanning tree is commonly supported by multiple OEMs can be considered instead of ERPS	No Change is Proposed
12			Clause 103 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It should support IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs)	It should support IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs) or should support TWAMP	please modify for wider participation.	No Change is Proposed
13			Clause 104 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It should support Ethernet OAM compliant with IEEE 802.3ah/Y.1731	It should support Ethernet OAM compliant with IEEE 802.3ah/Y.1731 or should support TWAMP	please modify for wider participation.	No Change is Proposed
14			Clause 106 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	It should support L2 Protocol Tunneling STP	It should support LACP	the functionality is not commonly used. Please remove clause for wider participation.	No Change is Proposed
15			Clause 117 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	vi) Ethernet OAM SNMP alarms.	-- please remove	please remove for wider participation	No Change is Proposed
16			Clause 120 100G Uplink Switch(4x100G and 24 x10G) - (Item no. 1 of SOR)	i) Operating Temperature - min 0 to 50 °C	i) Operating Temperature - min 0 to 40 °C	please modify for wider participation. 0°C is commonly supported across industry.	No Change is Proposed
17			Clause 29 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It shall support Optical Transceiver Digital Diagnostic Monitoring and link layer monitoring through , support 802.3ah or UDLD/IPSLA	It shall support Optical Transceiver Digital Diagnostic Monitoring, support 802.3ah link layer remote loopback and discovery or TWAMP	TWAMP is similar open IETF standard. Please allow TWAMP as option for wider participation.	No Change is Proposed
18			Clause 45 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It shall support IMPB, DHCP snooping, IPSG and dynamic ARP inspection	It shall support IMPB, DHCP snooping, IPSG and dynamic/Static ARP inspection	please modify clause for wider participation.	Please see Corrigendum-VII
19			Clause 57 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It shall have Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination	It shall have Layer 3 traceroute to ease troubleshooting by identifying the physical path that a packet takes from source to destination	trace route is a open standards based layer-3 feature. layer-2 trace is not a standard and doesn't work in multi-oem environment.	No Change is Proposed
20			Clause 60 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It shall support RMON v1 and v2 standards and 4 RMON groups	It shall support RMON / SNMPv3	please modify for wider participation. RMON is a very old technology.	No Change is Proposed
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24			Clause 103 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It should support IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs)	It should support IEEE 802.1ag Ethernet OAM: Connectivity Fault Management (Support 32 MEPs) or should support TWAMP	please modify for wider participation.	No Change is Proposed
25			Clause 104 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It should support Ethernet OAM compliant with IEEE 802.3ah/Y.1731	It should support Ethernet OAM compliant with IEEE 802.3ah/Y.1731 or should support TWAMP	please modify for wider participation.	No Change is Proposed
26			Clause 106 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	It should support L2 Protocol Tunneling STP	-- please remove	the functionality is not commonly used. Please remove clause for wider participation.	No Change is Proposed
27			Clause 117 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	vi) Ethernet OAM SNMP alarms.	-- please remove	please remove for wider participation	No Change is Proposed
28			Clause 120 40G Uplink Switch(2X40G and 24 X 10G) - (Item no. 2 of SOR)	i) Operating Temperature - min 0 to 50 °C	i) Operating Temperature - min 0 to 40 °C	please modify for wider participation. 0°C is commonly supported across industry.	No Change is Proposed
29			Clause 2	OEM should be ISO 9001, 14001, 27001.	- please remove	Please remove the clause for wider participation	No Change is Proposed
30			Clause 8	The OEM should have proven facilities for Engineering, manufacture, assembly, integration and testing and basic facilities with respect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Repair, Service Center Supports in the country from where the proposed equipment are planned to be supplied. OEM should have training repair and service center facilities in India.	The OEM should have proven facilities for Engineering, and basic facilities with respect to space, Engineering, Personnel, Test equipment, Training, Service Center Supports in the country from where the proposed equipment are planned to be supplied. OEM should have training and service center facilities in India.	many hardware OEMs (switches/routers) have manufacturing outsourced to ODMs. Please modify clause accordingly to accommodate such OEMs.	Please see Corrigendum-IV dated 18-10-22
31	4.A.12.2	40	3	# Similar Work: Projects of Telecom Transmission Network / Data Network / Broadband Network in Government / PSUs / Telecom Service Providers network / ISP Network / Public listed company.	We wish to highlight that we are registered MSME Vendor (UDYAM-UP-29-0014835) and also registered Startup under Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India, Certificate No.: DIPP49350. We are also Business Partner of RailTel Corporation through letter Number: RailTel/EOI/EB/2020-21/IT-ICT Partner/479A dated 19th January, 2022. Request you kindly allow us to participate and amend the clause as " # Similar Work: Projects of Telecom Transmission Network / Data Network/Data Centre/ IT/ ICT/ IT Services/ / Broadband Network in Government / PSUs / Telecom Service Providers network / ISP Network / Public listed company/Government through Large System Integrator."	We are emerging System Integration organization and normally tie-up with Large System Integrators, as Sub-contractors, for ICT/IT Solutions for Government customers. So, request you to kindly consider our PO credentials, which we have executed through System Integrators for Government end customers.	Tender Condition is very Clearer , No Change is Proposed

32	4.A.20.	45	4.A.20.1	POs will be issued Region wise.	For ease of execution of the Rate Contract from operations and management, request you to kindly issue Po and payment from Central site. Deliveries can be made across India as per Railtel requirement.		No Change is Proposed
33	4.A.5.	34	4.A.5.2 and 4.A.5.3	5% on PAC OR after completion of 3 month of supply and 5% on FAC OR after completion of 12 month of supply OR additional Performance Bank guarantee @ 5% of issued PO/ LOA value.	As the project is for "Supply and Rate Contract for procurement of Switches, Routers, Servers and SFPs for RailWire Network upgradation" and Bidders has been asked to quote produt with OEM Warranty and submit PBG of 3% for the entire contract value. Request you to kindly release 100% payment on full supply of the PO items on receipt of material by the consignee (at site/the stores, duly inspected and on submission of the required documents.		No Change is Proposed
34	4.A.4.	34	Delivery period	The materials as per SOR are required to be delivered within 120 days from the issue of LOA/Purchase Order.	Seeing the current Global Chipset shortage and Covid Scenario, we request you to kindly extend the delivery timelines to 240 days from the date of LOA/PO.		No Change is Proposed
35	B TECHNICAL SPECIFICATIONS, CHAPTER-3	20	4) OTN device (8x100G) with SNMP support - (Item no.4 of SOR), 3	The OTN device hardware should support the following functionality from the day one:-	OTN device and Tier-3 routers are going to be installed in the higher aggregation/edge layer of the network aggregating multiple T-4 routers. RailTel T-4 routers on other hand are equipped to scale upto 128K IPv4/32K IPv6/32K MPLS labels/5 label stack. Hence, T3/OTN must be scaled such that it is inline with the downstream network requirement. Moreover, as this OTN device is going to act as LER/LSR router we propose to have sufficient RSVP Tunnels/LSP scale.	The OTN device hardware should support the following functionality equivalent to T3 router from the day one:-	No Change is Proposed
				a) IPv4 RIB/FIB: 128K/32K		IPv4 RIB/FIB = 2M/1M	
				b) IPv6 RIB/FIB: 64K/16K		IPv6 RIB/FIB = 500k/150k	
				d) Label Stack: 3		Label Stack = 8	
				e) L2/L3 VPN: 500		L2/L3 VPN = 2k	
				F) RSVP LSP ingress/transit: 2K/1K		RSVP LSP ingress/transit = 15K	
36	B TECHNICAL SPECIFICATIONS, CHAPTER-3	26	7) Tier-3 Routers(8X100G) - (Item no. 7 of SOR), 2	The router should have option for 6x400G DWDM QSFP DD ports and 12x10/25/50G SFP56 by upgrading the license/OS/Optics/Hardware. 400G QSFP DD all ports should support ZR & ZR+ 400G optics.	Considering client side terminations (12x10/25/50G SFP56 OR 6x100G QSFP28/QSFP-DD ports - supporting breakout in all ports), requirement of 400G QSFP DD with ZR and ZR+ SFPs is on higher side. This would push OEMs to position higher box which might escalate the overall project cost. Hence we suggest to modify the clause as requested.	The router should have option for 6x400G DWDM QSFP DD ports and (12x10/25/50G SFP56 OR 6x100G QSFP28/QSFP-DD ports (supporting breakout in all ports)) by upgrading the license/OS/Optics/Hardware.	No Change is Proposed
37	B TECHNICAL SPECIFICATIONS, CHAPTER-3	26	7) Tier-3 Routers(8X100G) - (Item no. 7 of SOR), 4	The router should support the following functionality from the day one:-	Heading clause, no clarification required.	The router should support the following functionality from the day one:-	no Change is Proposed

38	B TECHNICAL SPECIFICATIONS, CHAPTER-3	26	7) Tier-3 Routers(8X100G) - (Item no. 7 of SOR), 4	a) IPv4 RIB/FIB: 10M/1.5M	Tier-3 routers are going to be installed in the higher aggregation/edge layer of the network aggregating multiple T-4 routers. RailTel T-4 routers on other hand are equipped to scale upto 128K IPv4/32K IPv6/32K MPLS labels/5 label stack. Hence, T3 must be scaled such that it is inline with the downstream network scale. Even currently installed T3 routers (refer T-3, T-4 RFP) are scaled to 1M IPv4/128K IPv6. Requesting for 10M/1.5M IPv4, 6M/750K IPv6 will push the OEMs to position higher boxes which might escalate overall project cost. Considering this scaling requirement, we suggest you to modify the clause as requested.	a) IPv4 RIB/FIB: 2M/1.2M	No Change is Proposed
39	B TECHNICAL SPECIFICATIONS, CHAPTER-3	26	7) Tier-3 Routers(8X100G) - (Item no. 7 of SOR), 4	b) IPv6 RIB/FIB: 6M/750K	Tier-3 routers are going to be installed in the higher aggregation/edge layer of the network aggregating multiple T-4 routers. RailTel T-4 routers on other hand are equipped to scale upto 128K IPv4/32K IPv6/32K MPLS labels/5 label stack. Hence, T3 must be scaled such that it is inline with the downstream network scale. Even currently installed T3 routers (refer T-3, T-4 RFP) are scaled to 1M IPv4/128K IPv6. Requesting for 10M/1.5M IPv4, 6M/750K IPv6 will push the OEMs to position higher boxes which might escalate overall project cost. Considering this scaling requirement, we suggest you to modify the clause as requested.	b) IPv6 RIB/FIB: 500k/150K	No Change is Proposed
40	B TECHNICAL SPECIFICATIONS, CHAPTER-3	26	7) Tier-3 Routers(8X100G) - (Item no. 7 of SOR), 4	c) MPLS Labels: 50K	Tier-3 routers are going to be installed in the higher aggregation/edge layer of the network aggregating multiple T-4 routers. RailTel T-4 routers on other hand are equipped to scale upto 128K IPv4/32K IPv6/32K MPLS labels/5 label stack. Hence, T3 must be scaled such that it is inline with the downstream network scale. Even currently installed T3 routers (refer T-3, T-4 RFP) are scaled to 1M IPv4/128K IPv6. Requesting for 10M/1.5M IPv4, 6M/750K IPv6 will push the OEMs to position higher boxes which might escalate overall project cost. Considering this scaling requirement, we suggest you to modify the clause as requested.	c) MPLS Labels: 16K	No Change is Proposed
41	2.2	24	Router shall support LDP, MPLS-TE with FRR, R-LFA, TI-LFA for sub 50 msec protection.	Router shall support LDP, MPLS-TE with FRR and TI-LFA for sub 50 msec protection	Kindly keep R-LFA "Router shall support LDP, MPLS-TE with FRR, R-LFA, TI-LFA for sub 50 msec protection."	R-LFA is mandatory requirement for Remote-Loop free alternate scenarios in MPLS-FRR. Kindly keep R-LFA	No Change is Proposed
42	2.6	24	2.6 Router shall support performance monitoring for Layer-2 and layer-3 services (Y.1731/Y.1564, TWAMP, SAA or equivalent).	Router shall support performance monitoring for Layer-2 and layer-3 services (Y.1731/Y.1564/CFM, TWAMP or equivalent).	2.6 Router shall support performance monitoring for Layer-2 and layer-3 services (Y.1731, Y.1564, TWAMP, SAA or equivalent).	Y.1731: Ethernet OAM, which can be comparable with IEEE802.3ah: Link OAM Y.1564: Ethernet Service Activation Test methodology CFM is equivalent to IEEE802.1ag: Kindly keep all three	No Change is Proposed

43	2.9	24	BGP Prefix independent control (EDGE and Core).	BGP Prefix independent control (EDGE / Core).	Kindly change to: BGP Prefix independent control (EDGE and Core).	The BGP PIC: Export of Backup Path Agnostic to its Multipath Eligibility feature improves BGP convergence after a network failure. This convergence applies to both core and edge failures.	No Change is Proposed
44	2.1	24	Router shall support BFD with interval of 10ms or less .	Router shall support BFD with interval of 50 ms or less	Kindly change to: Router shall support BFD with interval of 4ms or less .	Protection switching triggers after 3 times BFD timers triggers in the network. To get less than 50 ms convergence in the network, BFD timer should be at least 4 ms or less. (3x4ms BFD timer + 20 ms switching time).	No Change is Proposed
45	5.4	25	Minimum 500 MPLS layer-3 VPN's.	Minimum 32 MPLS layer-3 VPN.	Kindly change to: Minimum 500 MPLS layer-3 VPN's.	Considering your current and future tier-4 scale , we would recommend at least 500 Layer-3 VPN	No Change is Proposed
46	6.7	25	Operating temperature: 0°C to 45°C.	Operating temperature: 0°C to 40°C.	This should be as per Indian Environmental condition for this locations of router. Kindly revert to Operating temperature: 0°C to 45°C.		No Change is Proposed
47	9.4	25	The router should be able to act as Path computation client in the PCE architecture defined in RFC 4655.	The router should be able to act as Path computation client in the PCE architecture defined in RFC 4655 or should support BGP-LS	PCEP and BGL-LS are different purpose and different protocol and both are required. Kindly change to as per original RFP.	PCEP and BGL-LS are different purpose and different protocol and both are required. Kindly change to as per original RFP.	No Change is Proposed
48	9.5	25	The router should support PCECP as defined in RFC5440.	The router should support PCECP as defined in RFC5440 or should support BGP-LS	PCEP and BGL-LS are different purpose and different protocol and both are required. Kindly change to as per original RFP.	PCEP and BGL-LS are different purpose and different protocol and both are required. Kindly change to as per original RFP.	No Change is Proposed
49	11.2	26	Traffic Steering of SR policies with Autoroute Include and Segment Routing TI-LFA SRLG Protection	Traffic Steering of SR policies and Segment Routing TI-LFA SRLG Protection	Traffic Steering of SR policies with Autoroute Include and Segment Routing TI-LFA SRLG Protection. TI-LFA with IGP (Link, Node, Local SRLG, Remote SRLG protection)	Autoroute is required for SR-TE policies to add path to IGP	No Change is Proposed
50	11.3	26	LSP ping, trace-route, Pseudo wire Ping over Segment Routing, trace route for binding-SID	LSP ping, trace-route	LSP ping, trace-route, Pseudo wire Ping over Segment Routing, trace route for binding-SID	PW ping over SR is required for SR to be implemented	No Change is Proposed
51	11.4	26	MPLS-LDP interworking with SR-ISIS and SR-OSPF	MPLS-LDP interworking with SR-ISIS / SR-OSPF and LDP over RSVP. Roadmap for same may be acceptable however functionality should available before Final Acceptance (FAC)	MPLS-LDP interworking with SR-ISIS and SR-OSPF .	The router should support SR and LDP interworking with both IGPs. This will help in facilitating migration of IGP , if required for better scalability. All large Telco's already migrated from OSPF to ISIS.	No Change is Proposed
52	11.6	26	Shall support SR and MPLS (LDP) Interworking Mapping Server	Shall support SR and MPLS (LDP) Interworking Mapping Server. Roadmap for the same may be acceptable however functionality should available before Final Acceptance (FAC)	Label distribution protocol and segment routing should coexist and there should support option to prefer LDP over segment routing.	Railtel is a brownfield network, to implement SR in Railtel network, this feature is required on Day-1	No Change is Proposed
53	11.8	26	Router ASIC shoule be capable of supporting SRv6 natively and inter-working with SR-MPLS in future .	Router ASIC should be capable of supporting SR MPLS natively	Router ASIC shoule be capable of supporting SRv6 natively and inter-working with SR-MPLS in future .	Considering the future expansion, 5G, FRMCS, SRv6 should be supported from Day-1. SR-v6 will help removing overheads like LDP in the network	No Change is Proposed
54			SRv6-MPLS inter-working in future with software enhancement.				No Change is Proposed
55			New Clause		Router should support Tree-SID RFC 7473 for multicast replication in a segment routing environment Segment routing must support feature to monitor the labelled path to avoid any black holing due to missing or incorrect label. This should be available for an end to end SR path. Router should support Segment Routing and Segment Routing Traffic Engineering (SR-TE), SR PCEP, Segment Routing for IPv6, On demand next hop, Any cast SID, binding -segments and BGP-LS with support of minimum 12 label depth.		No Change is Proposed

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56			New Clause		Router should have support of Ethernet VPN (EVPN with single homing, multi homing		No Change is Proposed
57			New Clause		Router should have support of following features on EVPN: EVPN-IRB, EVPN VPWS, EVPN VPWS Preferred Path over SR-TE Policy		No Change is Proposed
58			88	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.	Please remove	To be removed	Please see Corrigendum-VII
59			101	It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network.	Please remove	To be removed	Please see Corrigendum-VII
60			Point no. 1, B 4) TECHNICAL SPECIFICATIONS, Chapter-3		Initially the OTN device should be equipped with how many 100G DWDM Line ports ?		Please see Corrigendum-VII