



Dated: 24.01.2024

**RailTel Corporation of India Ltd**  
(A Government of India Enterprise)  
Plate-A, 6th Floor, Office Tower-2,  
NBCC Building, East Kidwai Nagar,  
New Delhi-110023  
Website: [www.railtelindia.com](http://www.railtelindia.com)

### Corrigendum -VIII

**Sub:** Tender for “Supply of TDM over IP Solution, Servers, Switches, SFP and virtual route reflector”  
**Ref:** This office E-Tender No. GEM/2023/B/4147911 dt- 31.10.2023

In reference to the Tender for the “Supply of TDM over IP Solution, Servers, Switches, SFP and virtual route reflector” against GeM Bid no. GEM/2023/B/4147911 dt- 31.10.2023, all are advised to note the following changes of the tender:

Sr. N.	ATC clause No	Old clause of ATC/Modified in Corrigendum	Revised clause in corrigendum
1	ATC clause No- 10.1 Eligibility Criteria Requirements for OEMs: SN- 5	OEM should have Service Centre at min 04 locations in major cities in India	OEM/Authorized Partner should have Service Centre at min 04 locations in major cities in India
2	Annexure-1, clause no-2.1.H. SN-2 (SOR Item No-5 & 6) Virtual route reflector with SVC Customer Support of 5 Years. Page-32	RR must support Graceful Restart support for (ISIS, BGP, LDP)	Deleted
3	Annexure-1, clause no-2.1.H. SN-2 (SOR Item No-5 & 6) Virtual route reflector with SVC Customer Support of 5 Years. Page-32	RR must support LDP-IGP Sync	Deleted
4	Annexure-1, clause no-2.1.H. SN-2 (SOR Item No-5 & 6) Virtual route reflector with SVC Customer Support of 5 Years. Page-32	RR must support Multi-Hop BFD Feature for ISIS,LDP,BGP	RR must support Single/Multi-Hop BFD Feature for ISIS,LDP,BGP

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Sr. N.	ATC clause No	Old clause of ATC/Modified in Corrigendum	Revised clause in corrigendum
5	Annexure-1, clause no-2.1.D, (i) Technical Specification of server (SOR Item No-3) Page-29	(i)Server should have ILO/IPMI Interface for remote management	Server should have Interface for remote management
6	Annexure-1, clause no-2.1.A, SN-1 Technical Specification (SOR Item No-2) (Page-24)	Total throughput (Full duplex): Minimum 48 Gbps.	Total throughput (Full duplex): Minimum 32 Gbps.
7	Annexure-1, clause no-2.1.A, SN-1 Technical Specification (SOR Item No-16) (Page-24)	Router/Metro Ethernet Equipment should support redundant DC ( with the operating range of -40VDC to -72VDC)	Router/Metro Ethernet Equipment should support redundant DC dual feeding DC ( with the operating range of -40VDC to -60VDC)
8	Annexure-1, clause no-1, (iv) Technical Specification Page-23	UL, CE and FCC Certificate. These certificates are not required for PMA however, they have to produce certificate from standard lab approved/ authorized by Govt. of India that their product are equivalent to UL,CE and FCC and meets all standard and specification of UL,CE and FCC	UL/CE/FCC Certificate. These certificates are not required for PMA however, they have to produce certificate from standard lab approved/ authorized by Govt. of India that their product are equivalent to UL/CE/FCC and meets all standard and specification of UL/CE/FCC.
9	Annexure-1, clause no-2.1 A. SOR (4) Page-24	IPv4 RIB/FIB : Minimum 124K/30K	IPv4 RIB/FIB : Minimum 1K/1K
10	Annexure-1, clause no-2.1 A. SOR (5) Page-24	IPv6 RIB/FIB : Minimum 32K/7.5K	IPv6 RIB/FIB : Minimum 500/500
11	Annexure-1, clause no-2.1 A. SOR (6) Page-24	MPLS Labels : Minimum 12K	MPLS Labels : Minimum 100
12	Annexure-1, clause no-2.1 A. SOR (7) Page-24	Label Stack : 5	Label Stack : 4
13	Annexure-1, clause no-2.1 A. SOR (8) Page-24	L2 / L3 VPN VRF : Minimum L2 VPN: 128, Minimum L3 VRF: 128	L2 / L3 VPN VRF : Minimum L2 VPN: 128, Minimum L3 VRF: 64
14	Annexure-1, clause no-2.1 A. SOR (11) Page-24	Operating Temperature : (0 to 55 degree C or better)	Operating Temperature : (0 to 50 degree C or better)
15	Annexure-1, clause no-2.1 A. SOR (15) Page-24	Router/Metro Ethernet Equipment shall have option checking configuration before committing and option of rolling back to at least five configurations	Deleted

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16	Annexure-1, clause no-2.1 A. SOR (25) Page-25	The Router/Metro Ethernet Equipment should support Netflow, Jflow or equivalent	Deleted
17	Annexure-1, clause no-2.1 A. SOR (28) Page-25	Shall support following class of service features: b) Manage congestion using a weighted random early detection (WRED) algorithm	b) Manage congestion using a weighted random early detection (WRED) algorithm or alternative mechanism
18	Annexure-1, clause no-2.1 A. SOR (34) Page-25	Fast Reroute Extensions to RSVP-TE for LSP Tunnels	Deleted
19	Annexure-1, clause no-2.1 A. SOR (35) Page-25	The Router/Metro Ethernet Equipment shall Support of Sync-E & PTP technology (License price to be quoted separately)	Deleted
20	Annexure-1, clause no-2.1 A. SOR (37) Page-26	The Router/Metro Ethernet Equipment shall support the following routing features b) Dynamic Host Configuration Protocol (DHCP) relay	Deleted
21	Annexure-1, clause no-2.1 A. SOR (37) Page-26	The Router/Metro Ethernet Equipment shall support the following routing features f) RFC 3630, Traffic Engineering (TE) Extensions to OSPF Version 2	deleted
22	Annexure-1, clause no-2.1 A. SOR (37) Page-26	The Router/Metro Ethernet Equipment shall support the following routing features m) RFC 5305, IS-IS Extensions for Traffic Engineering	Deleted
23	Annexure-1, clause no-2.1 A. SOR (37) Page-26	The Router/Metro Ethernet Equipment shall support the following routing features p) IGMP v2 and v3 as described in RFC 2236 and RFC 3376 with IGMP Routing Policies to filter IGMP requests.	Deleted
24	Annexure-1, clause no-2.1 A. SOR (38) Page-26	The Router/Metro Ethernet Equipment shall support Virtual Router/Metro Ethernet Equipment Redundancy Protocol (VRRP) as per IETF RFC 3768	The Router/Metro Ethernet Equipment shall support Virtual Router/Metro Ethernet Equipment Redundancy Protocol (VRRP) as per IETF RFC 3768 or alternate solution

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25	Annexure-1, clause no-2.1 A. SOR (43) Page-26	IPv6 Features e) VRRPv3	e) VRRPv3 or alternate solution
26	Annexure-1, clause no-2.1 A. SOR (44) Page-26	Multicast Feature	Deleted
27	Annexure-1, clause no-2.1 A. SOR (46) Page-27	The device should comply to the following safety standards c) UL/EN 62368 Information Technology Equipment – Safety	UL/EN 62368 Information Technology Equipment – Safety or alternate safety standards
28	Annexure-1, clause no-2.1 A. SOR (46) Page-27	g) The device will conform to the following EN/IEC standard i. 61000-4-2 – ESD ii. 61000-4-3 Radiated Immunity iii. 61000-4-4 – EFT iv. 61000-4-5 – Surge v. 61000-4-6 – Low Frequency common immunity	g) The device will conform to the following EN/IEC standard or alternate standards i. 61000-4-2 – ESD ii. 61000-4-3 Radiated Immunity iii. 61000-4-4 – EFT iv. 61000-4-5 – Surge v. 61000-4-6 – Low Frequency common immunity
29	Annexure-1, clause no-2.1 A. SOR (47) Page-27	The offered devices must support following functionalities to support 3rd party SDN (in future) (d) The Router/Metro Ethernet Equipment should be able to act as Path computation client in the PCE architecture defined in RFC 4655. (e) The Router/Metro Ethernet Equipment should support PCECP as defined in RFC5440.	Deleted
30	Annexure-1, clause no-2.1 A. SOR (50) Page-28	k) Some of the streaming models/sensors the Router/Metro Ethernet Equipment should support are: Filter statistics RSVP Interface Statistics DHCP statistics	Deleted
31	Annexure-1, clause no-2.1 A. SOR (57) Page-28	The operating system of the Router/Metro Ethernet Equipments category/series/family should be MEF-9/14 or CE(Carrier Ethernet) Certified.	The operating system of the Router/Metro Ethernet Equipments category/series/family should be MEF or CE(Carrier Ethernet) Certified.

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32	Annexure-1, clause no-2.1 A. SOR (65) Page-29	Segment Routing: ii) The Router/Metro Ethernet Equipment should support SR-MPLS dataplane and protocols OSPF,IS-IS and BGP Segment routing extensions iii Traffic Steering of SR policies with Autoroute Include and Segment Routing TI-LFA SRLG Protection	Deleted
33	Annexure-1, clause no-2.1 A. SOR (65) Page-29	Segment Routing: vi) TI-LFA with IGP (Link, Node, Local SRLG, Remote SRLG protection)	Deleted
34	Annexure-1, clause no-2.1 A. SOR (65) Page-29	Segment Routing: vii) Controller instantiated SR Policy (PCEP, BGP)	Deleted
35	Annexure-1, clause no-2.1 A. SOR (65) Page-29	Segment Routing: viii) Router/Metro Ethernet Equipment should have capability to calculate Bandwidth based path using centralized controller.	Deleted
36	Annexure-1, clause no-2.1 A. SOR (65) Page-29	Segment Routing: xi) Label distribution protocol and segment routing should coexist and there should support option to prefer LDP over segment routing.	Deleted
37	Annexure-1, clause no-2.1 A. SOR (66) Page-29	EVPN Features ii) Router/Metro Ethernet Equipment should have support of following features on EVPN: EVPN-IRB, EVPN VPWS, EVPN VPWS Preferred Path over SR-TE Policy	Deleted
38	Annexure-1, clause no-2.1 C. SOR (Item No. 2) Page-30	Technical specifications of Smart SFP modules (STM-4) 6. Should support DDMI feature.	Deleted
39	Annexure-1, clause no-2.1 C. SOR (Item No. 2) Page-31	Technical specifications of Smart SFP modules (STM-4) 7. Should be having valid ISO 9000 & ISO 14000 certification on the date of opening of bid.	Deleted

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40	2.1 A. SOR (24) Page-25	The Router/Metro Ethernet Equipment should support filtering based on different parameters like: src ip, dst ip, src port, dst port, protocol etc	Deleted
41	Clause-10 Page-5	10.1 Eligibility Criteria Requirements for OEMs: 3. The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have received PO or supply record from any Government/PSUs/Govt Telecom Service Providers network in India.	10.1 Eligibility Criteria Requirements for OEMs: 3. The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have received PO or supply record from any Government/PSUs/Telecom Service Providers network in India.

All other terms and conditions will remain unchanged.

  
24/1/24

(Himanshu Kumar) GM/TP

(For and behalf of RailTel Corporation of India Ltd.)

