

1 Tejas Network

SN	Clause No.	Page No.	Content in the RFP	Clarification Sought	Clarification From RailTel
1	1.2 Capacity Metrics Requirement:- Type A	20	Capacity Minimum Requirements: 6 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports	We do understand that Type A Switches are aggregating the traffic from GE Rings to 10GE Rings . These switches will not be able to address additional 10G ,if required,thereby creating a bottleneck. This will put the entire investments being made by Railtel at a big risk . Additionally, considering the Global deployment trend , <u>We recommend you to increase the no. of 10G ports from 2x10GE to 4x10GE which will ensure seamless/hitless upgrade of Access layers for future requirements. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
2	1.2 Capacity Metrics Requirement:- Type A	20	Type A : Minimum Capacity - 30 Gbps	In view of the increasing bandwidth trends due to the potential of catering to more than 1G traffic and aggregating 10GE Access Ring , We recommend that the capacity should be minimum 50Gbps (Full Duplex) instead of 30G. <u>Hence,our recommendation is to increase the capacity of Type A to more than 50Gbps(Full Duplex) thereby catering to the immediate future demands. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
3	1.2 Capacity Metrics Requirement:- Type A	20	Type A : Minimum VLANs - 255	<u>We request VLANs to be of the order of 4000 instead of 255 VLANs as Type A Platforms are Carrier Ethernet Platforms. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
4	1.2 Capacity Metrics Requirement:- Type A	20	Type A & B Switches/Routers should support IP/MPLS features.	Carrier Etherent Switches require Robust OAM, deterministic traffic planning and minimum complexity. To ensure the functionality, TEC has come with TEC/GR/TX/CEN004/03/Mar-17. <u>We recommend that Type A & Type B Switches being Carrier Ethernet Switches should also comply to TEC/GR/TX/CEN004/03/Mar-17 for ensuring the Carrier class OAM and resiliency.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
5	3.3.1 Eligibility Criteria for OEM:	13	The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have been satisfactorily working in /Telecom Service Providers network for at least 12 months as on date of opening of tender in India or Abroad. The certificates from the actual users will have to be submitted along with bid.	We would like to bring to your kind notice that PMA policy has been implemented in the tender as per clause 3.10 of the tender conditions. The PMA policy confirms vide clause no. 5.4 that there should not be any restrictive conditions in the tender for domestic manufacturers in terms of eligibility or prior experience. <u>In compliance to PMA policy, please confirm that clause 3.3.1 is not applicable for Domestic OEMs.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
6	1.5 Type- A, B & C Switches/Routers should support following Metro Ethernet Features.	22	Switches/Routers should be NEBS certified.	We would like to bring to your notice that NEBS is a safety standard specifically meant for USA deployments. Also, the tender "RailTel/Tender/OT/CO/DNM/2017-18/Station Wi-Fi/RC for 1G Switches/386" seeks UL certification which is global and should be asked instead of NEBS which is country specific. Additionally the tender seeks compliance to TEC GRs. In view of above <u>we request you to kindly remove the requirement of NEBS certification and consider the UL certification instead.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
7	1.5 Type- A, B & C Switches/Routers should support following Metro Ethernet Features.	22	Switches/Routers should be NEBS certified.	We would like to bring to your kind notice that PMA policy has been implemented in the tender as per clause 3.10 of the tender conditions. The PMA policy confirms vide clause no. 5.4 that there should not be any restrictive conditions like NEBS certification. <u>In compliance to PMA policy, please confirm that NEBS certification is not applicable for Domestic OEMs. Compliance to standard may be taken if required.</u>	Tender condtion is very clear ,No change is proposed in tender condition.

8	3.3.1 Eligibility Criteria for OEM:	13	The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have been satisfactorily working in /Telecom Service Providers network for at least 12 months as on date of opening of tender in India or Abroad. The certificates from the actual users will have to be submitted along with bid.	Please confirm that the experience of supplying to Govt./ PSU will be accepted in addition to Telecom Service Provider as per clause no. 3.3.3.	it is proposed to ammend of the tender condition and same is defined in Corrigendum -I
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2 Cisco					
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SN	Clause no	Page no	Clause Description	Clarification request	
1	1.2	20	Minimum Backplane Capacity - Type C	Kindly clarify the Backplane capacities asked in this clause are Full duplex or half duplex. As per the interfaces required in Type D, Type E switche should be at least (4x10GE+24x1GE) 64Gbps Full duplex, as per the port requiremnet. Please clarify.	Tender condtion is very clear ,No change is proposed in tender condition.
2	1.3	21	Power supply - Type A	To have redundant feed, Please clarify Type A switch should support both options 1. Dual feed AC supply 2. Dual feed DC supply	Tender condtion is very clear ,No change is proposed in tender condition.
3	1.2	21	Backplane Capacity	Please clarify Type B switch should support Redundant Common modules like RSP, Power supply, as this is a high capacity switch. Switch should support high availability for all BFD,BGP ,OSPF and IS-IS and no packet loss during controller switch over.	Tender condtion is very clear ,No change is proposed in tender condition.
4	1.3	21	Power supply - Type B, C, D	To have redundant Power supply module, Please clarify Type B, C and D switch should support options 1. Field replacable Redundant AC supply 2. Field replacable Redundant DC supply 3. Field replacable Redundant AC / DC supply	Tender condtion is very clear ,No change is proposed in tender condition.
5	1.4, sr. no. 1	21	Should support Dual Images	Whether backup images should be kept in flash memory of Switch, please clarify	Tender condtion is very clear ,No change is proposed in tender condition.
6	1.4, sr. no. 9	22	Operating Temperature	Type A, B, C AND D Switches should support Extended Environmental conditions like +65 DegC and Relative humidity up to 95%.	Tender condtion is very clear ,No change is proposed in tender condition.
7	1.4, sr. no. 9	22	Operating Temperature	Type E and F Switches should support Temperature conditions 0 to +40 DegC Kindly clarify	it is proposed to ammend of the tender condition and same is defined in Corrigendum -I

8	1.6, sr. no. 2, 7	22	The switch shall support MPLS-FRR or IP-FRR to ensure high availability	As per Telecom deployment scenarios Type A, B, C, D switches should support MPLS and IP routing features like: The Switch should support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4, ECMP, LDP, BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6, VPNv4, VPNv6, BGP, IS-IS, OSPFv2 and V3, RSVP, VRRP, Loop free alternate FRR (IPFRR) and Traffic Engineering. Switch should support high availability for all BFD, BGP, OSPF and IS-IS and no packet loss during controller switch over. Switch should support Point to Point and Point to Multipoint LSP for Unicast and Multicast traffic. Switch should support HQOS	Tender condition is very clear, No change is proposed in tender condition.
9	1.5, sr. no. 2	22	The operating system of the Switches category/ series/ family should be MEF-9/14 or CE (Carrier Ethernet) Certified/ compliant	Generally CE certifications are based on platform with a particular OS version. Moreover CE2.0 is the latest certifications from Metro Ethernet Forum. We would request to modify the clause as : "The proposed Switches category/ series/family should be CE2.0 (Carrier Ethernet 2.0) Certified/compliant"	Tender condition is very clear, No change is proposed in tender condition.
10	3.3.1 (3)	13	The OEM should have supplied at least 35% of the tendered quantity of the equipment offered or equipment of the same series/family to Government/PSUs/Telecom Service Providers	This is out of policy of the deployed service provider. Kindly allow self certificate for this requirement.	it is proposed to amend of the tender condition and same is defined in Corrigendum -I
11	1.10 sr. no. f	23	VRF lite in type E & F	Please clarify instead of VRF lite, VRF is required	it is proposed to amend of the tender condition and same is defined in Corrigendum -I
LAN Switch GR: TEC GR No. TEC/GR/IT LSW-001/05/MAR 2014					
12	GR Clause no. 3.3.1 (xi)	20	The switch shall support Ethernet linear protection based on ITU-T G.8031, and Ethernet Ring Protection as per G.8032	In practical deployment scenarios, mostly G.8032 deployed. G.8031 is very rare use, as there are very rare scenario of two pair of linear fiber availability in the link. Kindly remove G.8031 requirement	it is proposed to amend of the tender condition and same is defined in Corrigendum -I
13	GR Clause no. 9.3	20	Lawful Interception	Kindly remove this requirement	it is proposed to amend of the tender condition and same is defined in Corrigendum -I
14	GR Clause no. 9.6	20	multiple physical switches into one logical switch.	These are generally Data Centre Switch application, kindly remove this requirement from access switches	it is proposed to amend of the tender condition and same is defined in Corrigendum -I
3 RAH Infotech & Targus					
1	Clause	21-22 & 23	Should be IPv6 certified/Logo Ready from day 1	This clause needs to be removed from all category switches. We support the IPv6 functionality but the IPv6 logo ready certification is not available. This certification is not very prevalent and only a few OEM products are certified and gives undue advantage to those OEMs.	it is proposed to amend of the tender condition and same is defined in Corrigendum -I

2	1.4 Type- A, B, C and D Switches /Routers should support following features.	Page 21	Should support Optical Transceiver Digital Diagnostic Monitoring	Please change to "the system should support cli to monitor optical parameters on an interface"	it is proposed to ammend of the tender condition and same is defined in Corrigendum -I
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4	Qi Network Enterprise Pvt. Ltd.				
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Sr No	Chapter / Clause No.	RFP Page No.	Content in the RFP	Clarification Sought	
1	Chapter-4 1.2 Capacity Metrics Requirement	20 Type-A	Capacity Minimum Requirements: 6 Nos. of Gigabit SFP ports and 4 Nos. 10/100/1000 Base –TX with 2 Nos. of 10 Gigabit SFP+ ports	We do understand that Type A Switches are aggregating the traffic from GE Rings to 10GE Rings . These switches will not be able to address additional 10G ,ifrequired,thereby creating a bottleneck. This will put the entire investments being made by Railtel at a big risk . Additionally, considering the Global deployment trend <u>We recommend you to increase the no. of 10G ports from 2x10GE to 4x10GE which will ensure seamless/hitless upgrade of Access layers for future requirements. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
2	Chapter-4 1.2 Capacity Metrics Requirement	20 Type-A	Type A : Minimum Capacity - 30 Gbps	In view of the increasing bandwidth trends due to the potential of catering to more than 1G traffic and aggregating 10GE Access Ring , We recommend that the capacity should be minimum 50Gbps (Full Duplex) instead of 30G. <u>Hence,our recommendation is to increase the capacity of Type A to more than 50Gbps(Full Duplex) thereby catering to the immediate future demands. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
3	Chapter-4 1.2 Capacity Metrics Requirement	20 Type-A	Type A : Minimum VLANs - 255	<u>We request VLANs to be of the order of 4000 instead of 255 VLANs as Type A Platforms are Carrier Ethernet Platforms. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
4	Chapter-4 1.2 Capacity Metrics Requirement	20 Type A & B	Type A & B Switches/Routers should support IP/MPLS features.	Carrier Etherent Switches require Robust OAM, deterministic traffic planning and minimum complexity. To ensure the functionality, TEC has come with TEC/GR/TX/CEN004/03/Mar-17. We recommend that Type A & Type B Switches being Carrier Ethernet Switches should also comply to TEC/GR/TX/CEN004/03/Mar-17 for ensuring the Carrier class OAM and resiliency.	Tender condtion is very clear ,No change is proposed in tender condition.
5	Chapter-3 3.3.1 Eligibility Criteria for OEM:	13	The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have been satisfactorily working in /Telecom Service Providers network for at least 12 months as on date of opening of tender in India or Abroad. The certificates from the actual users willhave to be submitted along with bid.	We would like to bring to your kind notice that PMA policy has been implemented in the tender as per clause 3.10 of the tender conditions. The PMA policy confirms vide clause no. 5.4 that there should not be any restrictive conditions in the tender for domestic manufacturers in terms of eligibility or prior experience. <u>In compliance to PMA policy, please confirm that clause 3.3.1 is not applicable for Domestic OEMs.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
6	Chapter-4 , 1.5 Switches/Routers should support following Metro Ethernet Features.	22 Type- A, B, C	Switches/Routers should be NEBS certified.	We would like to bring to your notice that NEBS is a safety standard specifically meant for USA deployments. Also, the tender "RailTel/Tender/OT/CO/DNM/2017-18/Station Wi-Fi/RC for 1G Switches/386" seeks UL certification which is global and should be asked instead of NEBS which is country specific. Additionally the tender seeks compliance to TEC GRs. In view of above <u>we request you to kindly remove the requirement of NEBS certification and consider the UL certification instead.</u>	Tender condtion is very clear ,No change is proposed in tender condition.

7	Chapter-4 , 1.5Switches/Routers should support following Metro Ethernet Features.	22 Type- A, B, C	Switches/Routers should be NEBS certified.	We would like to bring to your kind notice that PMA policy has been implemented in the tender as per clause 3.10 of the tender conditions. The PMA policy confirms vide clause no. 5.4 that there should not be any restrictive conditions like NEBS certification. <u>In compliance to PMA policy, please confirm that NEBS certification is not applicable for Domestic OEMs. Compliance to standard may be taken if required.</u>	Tender condition is very clear ,No change is proposed in tender condition.
8	Chapter-3 , 3.3.1 Eligibility Criteria for OEM:	13	The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have been satisfactorily working in /Telecom Service Providers network for at least 12 months as on date of opening of tender in India or Abroad. The certificates from the actual users will have to be submitted along with bid.	Please confirm that the <u>experience of supplying to Govt./ PSU will be accepted in addition to Telecom Service Provider as per clause no. 3.3.3.</u>	it is proposed to ammend of the tender condition and same is defined in Corrigendum -I