

1 Qi Network Enterprise Pvt. Ltd.						
SN	Clause No.	RFP Page No.	Content in the RFP	Clarification Sought	Clarification From RailTel	
1	Chapter -4 1.2 Capacity Metrics Requirement	20	8 ports 10/100/1000Mbps Base T & 2 portsSFP Based Gigabit ports: Min MAC address:- 16K (Switch Type-A)	We would like to bring to your kind notice that for the 8 port switch in the last tender (RailTel/Tender/OT/CO/DNM/2016-17/Wi-Fi/RC/1G Switch/331) the MAC table requirment was 8K. In addition to this, the 8 port chipsets globally come with a hardware supporting a MAC address table size of 8K which suffices the access requirement for such switches application. <u>In view of the same, we request you to confirm the clause as "MAC address support to 8K". Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.	
2	Chapter-4 1.2 Capacity Metrics Requirement	20	8 ports 10/100 MbpsBase T & 2 ports SFPBased Gigabit ports (Switch Type-B)	We would like to bring to your kind notice that for the 8 port switch in the last tender (RailTel/Tender/OT/CO/DNM/2016-17/Wi-Fi/RC/1G Switch/331) was with 10/100/1000Mbps Base T. Additionally, these days 10/100/1000Mbps Base T port is bare minimum and almost all devices come with ethernet port supporting 1G connection with autonegotiation. <u>We request you to confirm the specifications of Type B switches as 8 ports 10/100/1000Mbps Base T. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.	
3	Chapter-4, 1.2 Capacity Metrics Requirement	20	24 ports 10/100 MbpsBase T & 4 ports SFP Based Gigabit ports (Switch Type-C)	We would like to bring to your kind notice that even the 8 port switch in the last tender (RailTel/Tender/OT/CO/DNM/2016-17/Wi-Fi/RC/1G Switch/331) was with 10/100/1000Mbps Base T. Considering the 24 port requirement, these days 10/100/1000Mbps Base T port is bare minimum and almost all devices globally come with ethernet port supporting 1G connection with autonegotiation. <u>We request you to confirm the specifications of Type C switches as 24 ports 10/100/1000Mbps Base T. Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.	
4	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.	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.	
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 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	
2 cisco.com						
SN	Clause no	Page no	Clause Description	Clarification request	Clarification From RailTel	
1	1.2	20	Minimum Backplane Capacity - Type A	Kindly clarify the Backplane capacities asked in this clause are Full duplex or half duplex.Type A switch should be at least 24Gbps Full duplex, as per the port requiremnet. Please clarify.	Tender condtion is very clear ,No change is proposed in tender condition.	
2	1.2	20 & 21	Minimum Backplane Capacity - Type D and Type E	Kindly clarify the Backplane capacities asked in this clause are Full duplex or h half duplex. As per the interfaces required in Type D, Type E switche should be at least (4x10GE+24x1GE) 64Gbps Full duplex. Please clarify.	Tender condtion is very clear ,No change is proposed in tender condition.	

3	1.3	21	Power supply - Type A	Please clarify Type A switch should support both options 1. Dual feed AC supply 2. Dual feed DC supply	Tender condition is very clear ,No change is proposed in tender condition.
4	1.3	21	Power supply - Type B	Please clarify Type B switch should support both options 1. Dual feed AC supply 2. Dual feed DC supply	Tender condition is very clear ,No change is proposed in tender condition.
5	1.3	21	Power supply - Type C, D	Please clarify Type 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 condition is very clear ,No change is proposed in tender condition.
6	1.3	21	Power supply - Type E: DC power supply should work as a redundant power supply to power-on the switch using external battery .AC power supply of the switch should be able to charged/ discharged the battery and should also support charge controller (or regulator) functions for protect the batteries from overcharging and deep discharging. Battery Connection should be Input in the switch: Positve / Negative socket for connecting external lead-acid battery	This type of arrangemnet is not a Telecom standard deployment. We would request to allow External battery and iexternal nverter arrangemnet for AC source. Please clarify Type E switch should support options 1. Field replacable Redundant AC supply 2. Field replacable Redundant DC supply 3. Field replacable Redundant AC / DC supply	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
7	1.2	20	Power Over Ethernet	To power on the WiFi AP with latest technologies like 802.11ac wave, the AP's may require UPOE or POE+, instead of PoE. Kindly include PoE+ or UPOE ports instead of PoE ports	Tender condition is very clear ,No change is proposed in tender condition.
8	1.4, sr. no. 1	21	Should support Dual Images	Whther backup images should be kept in flash memory of Switch, please clarify	Tender condition is very clear ,No change is proposed in tender condition.
9	1.4, sr. no. 6	22	Surge Protection	Please allow external surge protection arrangement	Tender condition is very clear ,No change is proposed in tender condition.
10	1.4, sr. no. 9	22	Operating Temperature	All Type of Switches should support Extended Environmental conditions like +65 DegC and Relative humidity up to 95%. Please clarify	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
11	1.4, sr. no. 12	22	IPv4/V6 - L3	As per Telecom deployemnet scenarios All switches should support MPLS and IP routing features like VPNv4, VPNv6, BGP, OSPF, BFD, 3 level HQoS feature	Tender condition is very clear ,No change is proposed in tender condition.
12	1.5, sr. no. 2	23	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 Etherne 2.0t) Certified/compliant"	Tender condition is very clear ,No change is proposed in tender condition.
13	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 overnment/PSUs/Telecom Service Providers	This is out of policy of the deployed service provider. Kindly allow self certificate for this requiremnet.	it is proposed to ammend 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					
14	GR Clause no. 3.3.1 (xi)	Page 20 of RFP	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 ammend of the tender condition and same is defined in Corrigendum - I
15	GR Clause no. 3.6.1 (i)	Page 20 of RFP	i. RIPng for IPv6 as per RFC 2080	Request to remove RIPng as there are many alternate and more used protocol like OSPF v3 available for IPv6 Support	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I

16	GR Clause no. 3.6.4	Page 20 of RFP	GR Clause no. 3.6.4 (vi) to (xvii), 3.6.5 (viii), (ix), (xiii)	These clauses are majorly relevant to the Data Centre Switch Application, not relevant of Access Switches.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
17	GR Clause no. 9.3	Page 20 of RFP	Lawful Interception	Kindly remove this requirement	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
18	GR Clause no. 9.6	Page 20 of RFP	multiple physical switches into one logical switch.	These are generally Data Centre Switch application, kindly remove this requiremnet from access switches	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I

3 SISL

RFP Rule No.	RFP Page No.	Rule Details	Query/ Suggestion/ Clarification	
POINT NO. 7 OF ELIGIBILITY CRITERIA	6	The tenderer should have executed single order of supply/ provision of Router /Switches equipment's costing not less than Rs. 2.82 Crore during last proceeding 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender. Supply of this value against a single rate contract, during above period, will also qualify for this purpose. The bidder shall also furnish Supply/ work completion certificate issued by customer/s for the Purchase Orders/ Work Orders.	We need complete clarity against this clause.	Tender condtion is very clear ,No change is proposed in tender condition.

4 Tejas Networks Ltd.

Sr No	Clause No.	RFP Page No.	Content in the RFP	Clarification Sought	
1	1.2 Capacity Metrics Requirement:- Type B	20	8 ports 10/100 MbpsBase T & 2 ports SFPBased Gigabit ports	Considering the interface availability and bandwidth requirement, these days 10/100/1000Mbps Base T port is bare minimum and almost all devices come with ethernet port supporting 1G connection with autonegotiation which can adjust the line speed as per client port. Additionally, in the last tender (RailTel/Tender/OT/CO/DNM/2016-17/Wi-Fi/RC/1G Switch/331) the requirement was with 8 ports 10/100/1000 MbpsBase-T. <u>We request you to confirm the specifications of Type B switches as 8 ports 10/100/1000Mbps Base T.</u>	Tender condtion is very clear ,No change is proposed in tender condition.
2	1.2 Capacity Metrics Requirement:- Type A	20	8 ports 10/100/1000Mbps Base T & 2 portsSFP Based Gigabit ports: Min MAC address:- 16K	The prime application for 8 ports switches are in access network layer and for last mile delivery. Considering the same, the commonly available chipsets globally come wiht a hardware supporting a MAC table address size of 8K. Additionally, for the 8 port switch in the last tender (RailTel/Tender/OT/CO/DNM/2016-17/Wi-Fi/RC/1G Switch/331) the MAC table requirment was 8K. <u>In view of the same, we request you to confirm the clause as "MAC address support to 8K". Please confirm.</u>	Tender condtion is very clear ,No change is proposed in tender condition.

3	1.2 Capacity Metrics Requirement:- Type C	20	24 ports 10/100 MbpsBase T & 4 ports SFP Based Gigabit ports	Considering the interface availability and bandwidth requirement, these days 10/100/1000Mbps Base T port is bare minimum and almost all devices come with ethernet port supporting 1G connection with autonegotiation which can adjust the line speed as per client port. Additionally, in the last tender (RailTel/Tender/OT/CO/DNM/2016-17/Wi-Fi/RC/1G Switch/331) the requirement for a 8 ports switch was with 10/100/1000 MbpsBase-T, here the switch is 24 port which can serve the aggregate layer of the network. <u>We request you to confirm the specifications of Type C switches as 24 ports 10/100/1000Mbps Base T.</u>	Tender condition is very clear ,No change is proposed in tender condition.
4	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.	Considering the fact 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 condition 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.	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
5 D-Link					
	II		Storage Temperature- min -40 to 70 °C (-40 to 158 °F):	Please ask -20 to 70 °C (Standard requirements)	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
	V		Power Supply (Primary and Secondary) down and up alarms	This feature is generally not available. Only applicable in CHASSIS switches.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
	VI		LFM (SNMP TRAP) for Type B,C,D & E SWITCHES	Please remove this features. CFM features supported in the switches.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
	11		The switch shall be designed for continuous operations with dual/ redundant fans: Now a days switches are coming with FAN LESS design and having heat shrink features. EACH OEM has its own design. Please don't specify anything on FAN part and redundancy of FAN is only applicable in CHASSIS switch via HOT SWAPPABLE module.	This is not applicable on STANDALONE Switch. As requirement is not a MODULAR SWITCH in the tender.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
	12		IPv6/ v4-L3 and IPv6-Multicast functionalities / features for switches are designed but nor mandatory: : Please ask IPv6 support from day 1 without any additional license/ upgrade at the time of supply. Specs mentioned in the TEC-GR is for CORE switches/ router for DATA center deployment. This tender is for access categories switches. IPv6 features would be supported from day 1, which are relevant for ACCESS/ LAST Mile/ Aggregation deployment.	As the tender asked to comply (Category IV) as per TEC-GR: IPv6 specs are very detailed one in the TEC-GR. This can't be applicable for all categories for switches. Please give relaxation wrt to IPv6. Attached compliance for all categories of switches wrt to IPv6 as per TEC GR. As switches are having deviation. Kindly don't ask compliance IPv6 compliance as per TEC. This is only applicable for CORE CHASSI SWITCH (NGN kind of setup)	Tender condition is very clear ,No change is proposed in tender condition.

13		switch should have safety compliance of UL:	For 13 & 14: Please ask Safety Certifications: CE/ CE LVD/ UL/eUL/ FCC	Tender condition is very clear ,No change is proposed in tender condition.
14		switch should have EMC compliance of CE & FCC		Tender condition is very clear ,No change is proposed in tender condition.
		Port Fast and BPDU Guard/Filter or similar functionalities.	kindly remove.	Tender condition is very clear ,No change is proposed in tender condition.
		Surge protection of ± 2 kV on Ethernet ports and this will be applicable in case switch has copper ports.:	Please ask 1 KV as a standard features.	Tender condition is very clear ,No change is proposed in tender condition.
		Switch should support following SNMP traps		
		ii. Optical power SFP threshold alarms:	please remove this ask.	Tender condition is very clear ,No change is proposed in tender condition.
		iv. LLDP table changes :	please remove this ask.	Tender condition is very clear ,No change is proposed in tender condition.
		vi. Threshold traps of CPU ,Chassis Temperature and POE power budget and Memory	NO support for CPU, chassis temp. and memory trap. Kindly remove these features	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
		Switch should support following SNMP traps		Tender condition is very clear ,No change is proposed in tender condition.
		iv. LLDP table changes:	please remove this ask.	Tender condition is very clear ,No change is proposed in tender condition.
		vi. Threshold traps of CPU ,Chassis Temperature and Memory	NO support for CPU, chassis temp. and memory trap. Kindly remove these features.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
		Switch should support following SNMP traps		Tender condition is very clear ,No change is proposed in tender condition.
		iv. LLDP table changes	please remove this ask.	Tender condition is very clear ,No change is proposed in tender condition.
		vi. Threshold traps of CPU ,Chassis Temperature and Memory:	NO support for CPU, chassis temp. and memory trap. Kindly remove these features.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
		Switch should support following SNMP traps		Tender condition is very clear ,No change is proposed in tender condition.
		vi. Threshold traps of CPU ,Chassis Temperature and Memory	NO (ONLY TEMP SUPPORTED)	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
		13. switch should have safety compliance of UL:	NO	Tender condition is very clear ,No change is proposed in tender condition.

6	Allied Telesis India Pvt. Ltd 		
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Clause/Page No	SN Description	Pre Bid Clarification
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	Clause 3.3, Chapter-3 /6		<p>Eligibility Criteria:</p> <p>The equipment offered by the OEM or equipment of the same series/family 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.</p>	<p>As per Eligibility Criteria 3 "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." the OEM has been asked to meet criteria of supplying 35% of quantity to Government/ PSUs/ Telecom Service Providers.</p> <p>So, we request you to consider following criteria: "The equipment offered by the OEM or equipment of the same series/family should have been satisfactorily working in <u>Government/ PSUs/ Telecom Service Providers</u> 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."</p> <p>Keeping criteria only for telecom service provider will restrict OEM's who have not depolyed offered prodcut in telecom service provider.</p>	Tender condtion is very clear ,No change is proposed in tender condition.
			<p>3.10 Preference to Domestic Manufacturers for Telecom Equipment:</p> <p>"Preference to domestically manufactured electronic goods in procurement due to security considerations" shall be applicable as per Government of India policy as on the date of opening of price bid. The manufacturer claiming to qualify under the scope of such rules for PMA (Preferential Market Access) must submit the declaration of VA (value Addition) as required under the issued notification for the specified period (2016-17 & 2017-18).</p>	<p>The PMA policy is for central funded projects. As these switches will be utilised for providing access to Google Wi-Fi services and not for own Railtel use, so it PMA will not applies to current requirement. So, we request you to relax PMA policy on current requirement.</p>	Tender condtion is very clear ,No change is proposed in tender condition.
	1.3/21		<p>1.3 All type Switches should support following Power Supply arrangements. Should have AC Power Supply 100 to 240 V AC with 50 to 60 Hz and equipped with 3 pin plug.</p>	<p>The specifications which have been asked can be met efficiently by an industrial grade switch which as an industry standard are DC powered. However, an external AC/DC power adapter can be considered for AC power supply. So we request you to consider switch with external AC/DC power supply for DC powered switches</p>	Tender condtion is very clear ,No change is proposed in tender condition.
			<p>6 Switch should support :</p>		
	6/22		<p>i) Surge protection of ± 2 kV (line-earth) and ± 1 kW (line-line) on power</p>	<p>We manufacture products to meet industry standard EN 61000-4-5 for surge protection and same has been considered in referred TEC GR No. TEC/GR/IT LSW-001/05/MAR 2014.</p> <p>The required surge protection is not an industry standard and is specific to an OEM and is not avialible with all leading OEM's in industry. So we request you to consider switches with industry standard EN 61000-4-5 certification.</p> <p>If, it is your specific requirement, then we suggest you to consider external power surge protector to proctect switch from high surges</p>	Tender condtion is very clear ,No change is proposed in tender condition.

		6/22		ii) Surge protection of ± 2 kV on Ethernet ports and this will be applicable in case switch has copper ports.	We manufacture products to meet industry standard EN 61000-4-5 for surge protection and same has been considered in referred TEC GR No. TEC/GR/IT LSW-001/05/MAR 2014. The required surge protection is not an industry standard and is specific to an OEM and is not available with all leading OEM's in industry. So we request you to consider switches with industry standard EN 61000-4-5 certification.	Tender condition is very clear ,No change is proposed in tender condition.
		11/22		11 The switch shall be designed for continuous operations with IPv6/v4-L3 and IPv6-Multicast functionalities/features for Switches are desired but not mandatory.dual/redundant fans.	The industrial switches are designed without fans to avoid dust intake from outdoor locations and capable to operate -40 to 75C temperature range. With fans, dust may enter into switches via fan opening and will choke fan operation which lead to failure of switch. So, we request you to relax dual/redundant fans.	Tender condition is very clear ,No change is proposed in tender condition.
				Recommendations		
		1		For higher availability , we recommend to consider switch with capability to feed PoE power to PoE device even during switch reboots/restarts. It can be utilised well in following scenario: 1) Wi-Fi AP's in Mesh topology 2) IP CCTV Cameras: In case switch restarts, the switch keep providing poE power to IP camera. In such case, the camera will keep recordings in internal SD card, when switch becomes operational,camera will pumps archived video streams to DC/DR	We request you to consider switch with capability to feed PoE power to PoE device even during switch reboots/restarts	Tender condition is very clear ,No change is proposed in tender condition.
		2		For effective network diagnostic and management , we highly recommend following features: 1) RSPAN for monitoring data on remote device 2) UniDirectional Link Detection (UDLD)- to avoid uni-directional links in network 3) standard USB port for image/configuration backup, restore, and upgrade	We request you to consider switch with following network diagnostic and management: 1) RSPAN for monitoring data on remote device 2) UniDirectional Link Detection (UDLD)- to avoid uni-directional links in network 3) standard USB port for image/configuration backup, restore, and upgrade	Tender condition is very clear ,No change is proposed in tender condition.
		3		For IPv6 network, IPv4 and IPv6 dual stack support will be necessary	We request you to consider IPv4 and IPv6 dual stack support on switch	Tender condition is very clear ,No change is proposed in tender condition.
8 Edge Core						
	SN	Clause No.	RFP Page No.	Clause No.	Clarification Sought	
	1	1.2	20	16 K MAC Address Support	Please allow 8K MAC Address for specified switch	Tender condition is very clear ,No change is proposed in tender condition.
	2	1.3	21	Should have AC/ DC power supply arrangement as given below in chassis without any external adaptors:	Kindly Quantify the AC and DC power supply model required.	Tender condition is very clear ,No change is proposed in tender condition.

3	1.3	21	DC power supply should work as a redundant power supply to power-on the switch using external battery .AC power supply of the switch should be able to charged/discharged the battery and should also support charge controller (or regulator) functions for protect the batteries from overcharging and deep discharging. Battery Connection should be Input in the switch: Positive / Negative socket for connecting external lead-acid battery.	Please allow to remove battery charging feature.	Tender condition is very clear ,No change is proposed in tender condition.
4	1.4	21	Should support Optical Transceiver Digital Diagnostic Monitoring.	Kindly Confirm if DDM feature need to be supported on all port or specific port.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
5	1.4	22	The switch shall be designed for continuous operations with dual/redundant fans.	Should be both options Fanless or with FAN	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I
6	1.4	22	Power Supply (Primary and Secondary) down and Up alarms.	Please allow to accept alarm/indicator for primary and secondary power supply down and up alrms.	it is proposed to ammend of the tender condition and same is defined in Corrigendum - I