Date: 06.12.2023

Corrigendum - III

Tender document for "Selection of OEM's/Vendors for entering into Rate Contract for Supply of Access Points, PoE Switches and SFPs for Various locations of RailTel"

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In reference to Tender for **"Selection of OEM's/Vendors for entering into Rate Contract for Supply of Access Points, PoE Switches and SFPs for Various locations of RailTel"** against **Tender No.** RailTel/Tender/OT/CO/ITP/ 2020-21/AP, Switches & SFPs/006 **Dated: 19.10.2023,** all are advised to note following changes in the tender document:

SN	Pg. No.	RFP Clause No	RFP Clause	Revised Clause
1	21	Clause 3.11.1 of Chapter-3	Eligible MSEs are exempted from cost of tender document. However, MSEs are required to meet the eligibility criteria as specified in tender clause 3.3.1 and 3.3.2 above as the case may be. Further, the subject work being a works contract having scope of integrating various IT products and applications, the purchase preference criteria for MSME will also be not applicable in the tender	Eligible MSEs are exempted from cost of tender document and from submission of Earnest Money Deposit (EMD). However, MSEs are required to meet the eligibility criteria as specified in tender clause 3.3.1 and 3.3.2 above as the case may be. Further, the purchase preference criteria for MSME will also be applicable in the tender.
2	17	Point No 5 of Eligibility Criteria for OEM's: under Clause 3.3.2 of Chapter-3	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected.	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected. Form B issued by TEC will be accepted.
3	20	Splitting of Quantity, Clause No. 3.9 of Chapter-3.	The quantity to be ordered will be split by the purchaser as per the following criteria for ensuring better availability of material keeping in view the vital/critical nature of item, quantity to be procured, price and past performance of the firms. 3.9.1 The order will be split between L1 and L2 (respective schedule) in the following ratio: L1- 65% L2- 35% 3.9.2 L2 bidder will be given counter offer at rate of L1 bidder. In case of refusal by L2 for accepting the counter offer, this quantity will be awarded to L1 bidder. Note: Splitting of quantity will be done only if both L1 and L2 bidders are from same class of local supplier.	Deleted

SN	Pg. No.	RFP Clause No	RFP Clause	Revised Clause
4	28	Chapter-4, SOR-1 (Outdoor Access Point), CT2M3-Mesh	Access point shall have wired uplink interfaces i.e. 1X10/100/1000BASE-T Ethernet.	Access point shall have wired uplink interfaces i.e. 1G Base-T Ethernet.
5	28	Chapter-4, SOR-1 (Outdoor Access Point), CT205-Operational	Ethernet over GRE IPv6 tunnel	Ethernet over GRE in both ipv4 & ipv6.
6	29	Chapter-4, SOR-1 (Outdoor Access Point), CT2EES3 - Environmental and Electrical Specifications	Access point shall support pole, wall, and roof mounting options	Access point shall support wall and roof mounting options.
7	29	Chapter-4, SOR-2 (Indoor Access Point)- CT2Q2 - Quality of Service	Should be Wi-Fi Alliance certified and WPC Approved and ETA Certified	Should be Wi-Fi Alliance certified or WPC Approved / ETA Certified
8	30	CHAPTER-4, SOR-1 (Indoor Access Point), TEC/GR Certificate	Wi-Fi Access Point equipment for outdoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandotory by OEM as per para-9 and para-10 of Notification No. 18-10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order-2017.	Wi-Fi Access Point equipment for outdoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandatory by OEM as per para-9 and para-10 of Notification No. 18-10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order-2017. Form B issued by TEC will be accepted.
9	31	Chapter-4, SOR-2 (Indoor Access Point), CT205-Operational	Ethernet over GRE IPv6 tunnel	Ethernet over GRE in both ipv4 & ipv6.
10	32	Chapter-4, SOR-2 (Indoor Access Point)- CT2EES5-Environmental and Electrical Specifications	The equipment shall support up to 150 Kmph sustained winds.	Deleted
11	32	Chapter-4, SOR-2 (Indoor Access Point)- CT2EES6-Environmental and Electrical Specifications	The Access point shall be IP67 certified.	Deleted

SN	Pg. No.	RFP Clause No	RFP Clause	Revised Clause
12	32	Chapter-4, SOR-2 (Indoor Access Point)- CT2EES7- Environmental and Electrical Specifications	The Access point shall be rated for operation over an ambient temperature range of 0C to +55 C	The Access point shall be rated for operation over an ambient temperature range of 0C to +50 C
13	32	CHAPTER-4, SOR-2 (Indoor Access Point), TEC/GR Certificate	Wi-Fi Access Point equipment for indoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandatory by OEM as per para-9 and para-10 of Notification No. 18- 10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order- 2017.	Wi-Fi Access Point equipment for indoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandatory by OEM as per para-9 and para-10 of Notification No. 18- 10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order- 2017. Form B issued by TEC will be accepted.
14	33	Chapter-4, Technical Specifications for Wireless Controller, WCHW2- Hardware and Standards	Controller should be of maximum 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 5000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs in future. (Additional hardware and licenses required will be provided by RailTel)	Controller should be of maximum 2U form factor & single chassis should be capable of supporting minimum 5000 Access Points in georedundcay (Gurgaon & Secundrabad). The controller hardware along with software & licenses shall be provided by bidder. **Note:** Proposed controller should support 1+1 or N+1 redundancy from the day one. (hardware and licenses required will be provided by RailTel)
15	34	Chapter-4, Technical Specifications for Wireless Controller, WCO11 - Operational	must be wifipasspoint 2 complaint	Deleted
16	36	Chapter-4, SOR-3 POE Switch, Point No 17, Safety Requirement	It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network.	Deleted
17	36	Chapter-4, SOR-3 POE Switch, Point No 20, Safety Requirement	Switch should have safety compliance of UL.	Switch should have safety compliance of UL/IEC or equivalent Indian certification.

SN	Pg. No.	RFP Clause No	RFP Clause	Revised Clause
18	80	Chapter-9- Point D of Form No-5 (OEM Undertaking)	We certify that our offered products are genuine, have our own manufacturing setups and IPR for the hardware(s)/software(s), and not have 3rd party manufacturing from any company blacklisted in India or abroad (due to proven backdoor access and data vulnerability) or any company sharing land border with India. The Intellectual Property Rights (IPR) of all offered product and source code of all offered software including camera firmware, switch firmware etc. are not residing in countries sharing land borders with India. Proof of IPR & source code will be provided by the OEM. or IPR of offered products and source code of offered software including camera firmware, switch firmware etc. are residing in .....country (Please mention the country name) and OEM has been registered with the Competent Authority of Govt. of India and are eligible to be considered(evidence of valid registration by the competent authority is enclosed) In case any breach or false declaration is found at any stage, immediate strict penal action can be taken by RailTel.	We certify that our offered products are genuine, have our own manufacturing setups and IPR for the hardware(s)/software(s), and not have 3rd party manufacturing from any company blacklisted in India or abroad (due to proven backdoor access and data vulnerability) or any company sharing land border with India. The Intellectual Property Rights (IPR) of all offered product and source code of offered equipment's firmware are not residing in countries sharing land borders with India. Proof of IPR & source code will be provided by the OEM. or IPR of offered products and source code of offered software including camera firmware, switch firmware etc. are residing in .....country (Please mention the country name) and OEM has been registered with the Competent Authority of Govt. of India and are eligible to be considered(evidence of valid registration by the competent authority is enclosed) In case any breach or false declaration is found at any stage, immediate strict penal action can be taken by RailTel.

The response of queries is attached as Annexure-I. All other term & conditions of tender documents will remain same.

(Anand Singh Chandel)
Joint General Manager/EB

						Annexure-I
SN	**Clause no. & Chapter no.**	**Page No.**	**Content of the tender Clause**	**Change asked by firm**	**Justification by Firm**	**RailTels Response / Clarification**
1	3.2	13	Delivery Period: Material is required to be delivered by the supplier at the location/consignee within 60 days from the date of issue of each Sub- PO issued against Advance Purchase order	We request to the department to revise delivery timeline to 120 days from the issue date of PO		No change
2	3.11.1	21	Eligible MSEs are exempted from cost of tender document. However, MSEs are required to meet the eligibility criteria as specified in tender clause 3.3.1 and 3.3.2 above as the case may be.	Department is giving exemption from tender document cost, we request to kindly also give exemption from EMD for MSE's.		Please see corrigendum-III
3	1.1 WCHW	34	Hardware and Standards Controller should be of maximum 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 5000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs in future. (Additional hardware and licenses required will be provided by RailTel)	We request to the department kindly remove this feature.		Please see corrigendum-III
4	1.1 WCS6	34	Security Controller should have profiling of devices based on protocols like HTTP/DNS, DHCP and more to identify the end devices on the network	Such profilling of device can be done in various parameters		No change
5	1.1 WCO6	34	Operational Must support Ethernet over GRE IPv4 tunnel	We request to allow such feature in complete devices		No change.
6	1.1 WCO7	34	Operational Must support Ethernet over GRE IPv6 tunnel	We request to allow such feature in complete devices		No change.
7	1.1 WCO11	34	Operational must be wifipasspoint 2 complaint	This compliance is applicable on access point		Please see corrigendum-III
8	3.3.2 Point-5	17	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected.	We request to the department kindly accept the Form B issued by TEC		Please see corrigendum-III
9	13	35	Switch should support : i) Surge protection of ± 2 kV (line- earth) and ± 1 kW (line-line) on power ii) Surge protection of ± 4 kV on Ethernet ports and this will be applicable in case switch has copper ports	Device should have surge protection as per IEC 61000-4-5 standard, we request to ask for IEC certificate		No change.External surge protector can be provided to meet ± 4 kV surge protection.
10	20	34	Safety Requirement :- Switch should have safety compliance of UL.	We request to the department kindly asked for the IEC certificate also		Please see corrigendum-III
11	23	35	IPv6 feature should be ready from day 1.	Kindly confirm we need to upload IPV6 logo certificate with Bid?		No change.

12	CT207	31	Must support data-plane split tunneling in which ACLs may be configured to enable a range of destination net blocks and/or IPs/Mac to bypass the data-plane tunnel and be bridged on the wired interface	Kindly give the more clarification on this point		Clarification: When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar protocol . This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.
13	WCO11	31	Must support data-plane split tunneling in which ACLs may be configured to enable a range of destination net blocks and/or IPs/Mac to bypass the data-plane tunnel and be bridged on the wired interface	Kindly cearify the detail of cashing server.		No change.
14	WCO13	34	Operational:- Must support configuration of data- plane split tunneling by enabling specific destination IP addresses and net blocks to bypass the data-plane tunnel and be bridged on the wired interface	Kindly give the more clarification on this point		No change.
15	TEC/GR Certificate	32	Wi-Fi Access Point equipment for indoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandotory by OEM as per para-9 and para-10 of Notification No. 18- 10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order- 2017.	We request to the department kindly accept the Form B issued by TEC		Please see corrigendum-III
16	CT207	29	Operational:- Must support data-plane split tunneling in which ACLs may be configured to enable a range of destination net blocks and/or IPs/Mac to bypass the data-plane tunnel and be bridged on the wired interface.	Kindly give the more clarification on this point		No change
17	CT209	29	Operational:- AP should have capability to split tunnel for specific destination Mac/IP/Subnet (For implementing policy based Caching solutions) using local NAT and forward user traffic.	Kindly cearify the detail of cashing server.		No change
18	CT2EES5	32	Environmental and Electrical Specifications:- The equipment shall support up to 150 Kmph sustained winds.	Form B issued by TEC will be accepted.		Please see corrigendum-III
19	CT2EES6	32	Environmental and Electrical Specifications:- The Access point shall be IP67 certified.	Since this is indoor installation, IP67 certificate is not applicable on this.		Please see corrigendum-III

20	TEC/GR Certificate	32	Wi-Fi Access Point equipment for indoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandotory by OEM as per para-9 and para-10 of Notification No. 18- 10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order- 2017.	We request to the department kindly accept the Form B issued by TEC		Please see corrigendum-III
21	3.3.2 Eligibility Criteria for OEM's	16	The Equipment offered by the OEM or equipment/software of the same series/family from the same OEM should have been satisfactorily working in Government/PSUs/Telecom Service Providers/ Public Listed Company for at least 12 months as on date of opening of tender, in India or Abroad. Work experience certificate issued by Public listed company having average annual turnover of Rs 500 Cr and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange or any global stock exchange, incorporated/registered at least 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.	This tender is for Wi Fi AP, Switch & SFP. So any line item supply record can be submitted or you need supply record for all the 03 line categories. Kindly feedback.	All the 03 categorries are important. So at least min 02 line items supply and performance certificate should be asked.	Clarification: Proof for successfully completed work for all 03 line items.
22	3.3.2 Eligibility Criteria for OEM's	16	OEM should have supplied the equipment offered or equipment/software of the same series/family at least of Rs. 02.58 Cr. during last preceding 3 financial years (i.e. current year and three previous financial years) as on opening date of bid to Government/PSUs /Telecom Service Providers / Public Listed Company in India or Abroad or 35% of their offered equipment cost by respective OEM against SOR. Work experience certificate issued by Public listed company having average annual turnover of Rs 500 Cr and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange or any global stock exchange, incorporated / registered at least 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.	This tender is for supply of switch, SFP & Wi Fi AP. Query 1: You need indivudal line item supply record having value 2.58 Cr Query 2: Combination of all the 03 line items supply record having value 2.58 Cr. Query 3: 35% of the offered equipment cost by respective OEM against SOR.	Kindly feedback the reply for all the 03 queries.	No Change, Tender clause is clear.
23	3.3.2 Eligibility Criteria for OEM's	17	The OEM must be registered on Trusted Telecom Portal (Authority: DOT notification No. 20- 1263/2021-AS-I Dated: 30.03.2021, https://trustedtelecom.gov.in) and must have MTCTE (Mandatory Testing and Certification of Telecom Equipment) certificate. Documentary evidence for the same must be submitted online; without document proof, bid will be summarily rejected. (Authority: DOT circular No. 5-2/2021-TC/TEC/112 dated 31.01.2022, https://www.mtcte.tec.gov.in	Query 1: Can document proof for OEM having registration with Trusted Telecom Portal is OK Query 2: MTCTE & TEC certificate one and the same thing. Kindy confirm.		Clarification: Reply Query 1:Product shall be registerd with Trusted Telecom Portal. Reply Query 2: As per Tender

24	3.3.2 Eligibility Criteria for OEM's	17	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected.	As per tender clause, TEC certificate in favor of OEM is mandatory to be submitted at the time of submission of the tender for Wi Fi AP. This tender is for supply of switch, SFP & Wi Fi AP. Query 1: Seperate TEC is issued for Indoor & same way for Outdoor. In the same manner seperate TEC for POE switch & TEC for NON POE switch. As they don't fall in the same category. Query 2: Does Railtel needs 03 TEC certificate for all the 03 categories of line items (Wi Fi AP, Switch & SFP) or the bidder can submit the OEM TEC certificate for any one SOR.	1. All the 03 categorries are important. TEC should be ask indivudally for each categoty. 2. In case OEM is not haivng TEC certificate. Than getting a TEC certificate is a lengthy process. In that we request you to please allow TEC certificate to be submitted for atleast 01 category at the time of bid. So that genuine OEM can particiapte. TEC should be allow for the Equipment offered by the OEM or equipment/software of the same series/family from the same OEM.	Please see corrigendum-III
25	1.3. SOR-3 (PoE Switch):	36	Switch should comply to following Temperature performance parameters :	i) Operating Temperature - min -0 to 50 °C (23 to 122 °F) ii) Storage Temperature - min -0 to 70 °C (-40 to 158 °F)	Consider the Standard Temperature Range: Operating temperature/humidity: -10°C-50°C, 10%-90% non-condensing Storage temperature/humidity: -20°C-70°C, 5%-90% non-condensing	Operational requirement .
26	1.3. SOR-3 (PoE Switch):	36	It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network	It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network	Switch is supporting 802.1x/ NAC. Generally NO separate alert mechanism option available. Security realted compliance is geeting achieved using 802.1x feature. Please remove this clause.	Please see corrigendum-III
27	OEM Undertaking on Letter Head	80	We certify that our offered products are genuine, have our own manufacturing setups and IPR for the hardware(s) / software(s), and not have 3rd party manufacturing from any company blacklisted in India or abroad (due to proven backdoor access and data vulnerability) or any company sharing land border with India. The Intellectual Property Rights (IPR) of all offered product and source code of all offered software including camera firmware, switch firmware etc. are not residing in countries sharing land borders with India. Proof of IPR & source code will be provided by the OEM. or IPR of offered products and source code of offered software including camera firmware, switch firmware etc. are residing in …….country (Please mention the country name) and OEM has been registered with the Competent Authority of Govt. of India and are eligible to be considered(evidence of valid registration by the competent authority is enclosed) In case any breach or false declaration is found at any stage, immediate strict penal action can be taken by RailTel.	1st Query: OR mentioned between two paragraph. Does it means any of the clause is applicable? 2nd Query: You have asked IPR of offered products and source code of offered software including camera firmware, switch firmware etc. This tender is for Wi Fi AP, Switch & SFP. So IPR & source code is applicable indivudally for all the SOR line tiems/ categories or applicable only for the switch. Camera is not the requirements in this project.	Reply from Railtel on Query 1 expected: Justification for Query 2: Instead of just asking IPR, the clause should be OEM having IPR / Trademark instead of IPR only.	Please see corrigendum-III

28	SOR-1 (Outdoor Access Point) Mesh - CT2M3	28	Access point shall have wired uplink interfaces i.e. 1X10/100/1000BASE- T Ethernet	Fast Ethernet 10/100 Mbps support is generally required to connect the legacy machines, nowadays all the devices support 1000 Base-T Interface. In this case, Access Point will be connected to a Gigabit Switch over 1000Base-T Port and 10/100 Mbps will never be used and not desired as well for optimal performance of the Wireless Network. Therefore for Multi-OEM participation, please modify the clause.	Access point shall have wired uplink interfaces i.e. 1G Base-T Ethernet	Please see corrigendum-III
	SOR-1 (Outdoor Access Point) Operational- CT2O5	28	Ethernet over GRE IPv6 tunnel	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	Ethernet over GRE	Please see corrigendum-III
	SOR-1 (Outdoor Access Point) Operational- CT208	29	AP should have capability to split tunnel for both IPv4 and IPv6 tunnel to segregate the management and data traffic.	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	AP should have capability to split tunnel for both IPv4/ IPv6 tunnel to segregate the management and data traffic.	No change
29	SOR-2 (Indoor Access Point) Operational- CT2O5	31	Ethernet over GRE IPv6 tunnel	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	Ethernet over GRE	Please see corrigendum-III
	SOR-2 (Indoor Access Point) Operational- CT208	31	AP should have capability to split tunnel for both IPv4 and IPv6 tunnel to segregate the management and data traffic.	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	AP should have capability to split tunnel for both IPv4/ IPv6 tunnel to segregate the management and data traffic.	Operational requirement .
	SOR-1 (Outdoor Access Point) Environmental and Electrical Specifications	29	Access point shall support pole, wall, and roof mounting options.	This seems a typo mistake as the specifications are meant for Indoor Access Point and support for Pole Mount has been asked. Please clarify this clause to have better understanding.	Access point shall support wall, and roof mounting options.	Please see corrigendum-III
	SOR-2 (Indoor Access Point) Environmental and Electrical Specifications - CT2EES5	32	The equipment shall support up to 150 Kmph sustained winds.	This seems a typo mistake as the specifications are meant for Indoor Access Point and support up to 150 Kmph sustained winds has been asked. Please clarify this clause to have better understanding.	This Clause shall be deleted	Please see corrigendum-III
	SOR-2 (Inddor Access Point) Environmental and Electrical Specifications- CT2EES6	32	The Access point shall be IP67 certified.	This seems a typo mistake as the specifications are meant for Indoor Access Point and IP67 certified has been asked which is applicable for Outdoor Access Points. Please clarify this clause to have better understanding.	The Access Point shall be UL 2043 Plenum rated.	Please see corrigendum-III
	SOR-2 (Indoor Access Point) Environmental and Electrical Specifications- CT2EES7	32	The Access point shall be rated for operation over an ambient temperature range of 0C to +55 C	All the leading OEMs Indoor Access Points support a operating temperature range of 0C to +50C which is sufficient for any Indoor Application/ Environment. Therefore for Multi-OEM participation, please modify the clause.	The Access point shall be rated for operation over an ambient temperature range of 0C to +50 C	Please see corrigendum-III
30		16	i) Operating Temperature - min -0 to 50 °C (23 to 122 °F)	All the leading OEMs PoE Switches support a operating temperature range of 0C to +45C which is sufficient for any Indoor Application/ Environment. Therefore for Multi-OEM participation, please modify the clause.	i) Operating Temperature - min -0 to 45 °C (23 to 122 °F)	No change

31	Technical Specifications for Wireless Controller-Hardware and Standards-WCHW2	33	Controller should support 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 5000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs in future. (Additional Hardware and licenses required will be provided by RailTel)	This clause is restricting us to bid as the asked support of 5000 Access Points on a Single Chassis is too high config. Therefore we request you to please modify the clause to make the bid generic.	Controller should support 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 2000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 6,000 or more APs. OR Cloud/ Appliance based wireless controller shall support 5000 Access Points from Day 1. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs.	Please see corrigendum-III
	Technical Specifications for Wireless Controller-IPv6 features-WCIP2	33	WLC should support Guest-access functionality for IPv6 clients	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	WLC should support Guest-access functionality for IPv4/ IPv6 clients	No change
	Technical Specifications for Wireless Controller-Operational-WCO7	34	Must support Ethernet over GRE IPv6 tunnel to northbound gateway.	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	This Clause shall be deleted	No change
32	1. Technical Specification: 1.1. SOR-1(Outdoor Access Point): - CT2S3	28	Provision of Wireless IPS to filter malicious traffic	What is the use case for DHCP option 82? Please clarify.	Please clarify.	Clarification: An IPS works by analyzing network traffic in real-time and comparing it against known attack patterns , malicious traffic and signatures. When the system detects suspicious traffic, it blocks it from entering the network. This feature is actually includes in WIPS feature in WLC which is required. DHCP option-82 feature is required to send user related data , like cicuit ID ,remote id , agent id , Users MAC , AP hostname etc to the BNG and further AAA for capturing precise details for Users.
33	1. Technical Specification: 1.1. SOR-1(Outdoor Access Point): - CT2M2	28	AP model proposed must be able to be both a client-serving AP and Parallelly monitor- Intrusion Prevention services.	What is the use case for Intrusion Prevention Service? As this is a public hot-spot deployment. AP's with IPS with more costilier,Please amend or Please clarify.	Please clarify.	Clarification: An IPS works by analyzing network traffic in real-time and comparing it against known attack patterns , malicious traffic and signatures. When the system detects suspicious traffic, it blocks it from entering the network. This feature is actually includes in WIPS feature in WLC which is must required.
34	1. Technical Specification: 1.1. SOR-1(Outdoor Access Point): - CT2O4	28	Must support DHCP Option 82, defined in RFC 3046, including support for Sub-option 01 (Circuit-Id) and Sub-option 02 (Remote Id) fields in all mode.	What is the use case for DHCP option 82. Please clarify?	Please clarify.	Clarification: DHCP option-82 feature is required to send user related data , like cicuit ID ,remote id , agent id , Users MAC , AP hostname etc to the BNG and further AAA for capturing precise details for Users.

35	1. Technical Specification: 1.1. SOR-1(Outdoor Access Point): - CT2Q2	29	Should be Wi-Fi Alliance certified and WPC Approved and ETA Certified	Uses scenarios might make it unnecessary to obtain all of the mentioned certifications (WPC-ETA, Wi-Fi Alliance, Type approval, and MTCTE) for their Wi-Fi Access points. Certifications from international bodies such as the Wi-Fi Alliance may not be mandatory for the Indian market. These certifications are crucial for global market access and interoperability. Therefore, RaiTel may offer exemptions for domestically intended products, especially for those that do not impact international spectrum coordination. MSMEs often operate with limited financial resources. Fewer certifications mean reduced expenses, making it more feasible for these companies to bring innovative Wi-Fi solutions to the market. Also, Simplified certification processes contribute to India's self-reliance goals by fostering a more favorable environment for domestic companies. Prioritizing compliance with local regulations, such as MTCTE for telecom equipment in India, might suffice for legal and regulatory compliance within the country.	Please change the clause as requested.	Please see corrigendum-III
36	1. Technical Specification: 1.1. SOR-1(Outdoor Access Point): - TEC/GR	30	Wi-Fi Access Point equipment for outdoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandatory by OEM as per para-9 and para-10 of Notification No. 18-10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order-2017.	We kindly request an exemption from Type Approved as per TEC GR no. 38020:2021 for MSME. This exemption will alleviate the financial burden and administrative complexities, allowing us to channel resources into product development and growth. As a local entity serving the Indian market, our commitment to compliance remains unwavering. We believe this exemption will foster innovation and enhance our contribution to the Indian technology landscape. All prioritizing compliance with local regulations shall be covered under MTCTE.	Please change the clause as requested.	Please see corrigendum-III
37	1. Technical Specification: 1.2. SOR-2 (Indoor Access Point): CT2S3	31	Provision of Wireless IPS to filter malicious traffic	What is the use case for DHCP option 82? Please clarify.	Please clarify.	An IPS works by analyzing network traffic in real-time and comparing it against known attack patterns , malicious traffic and signatures. When the system detects suspicious traffic, it blocks it from entering the network. This feature is actually includes in WIPS feature in WLC which is must required.
38	1. Technical Specification: 1.2. SOR-2 (Indoor Access Point): CT2M2	31	AP model proposed must be able to be both a client-serving AP and Parallelly monitor- Intrusion Prevention services.	What is the use case for Intrusion Prevention Service? As this is a public hot-spot deployment. AP's with IPS with more costilier,Please amend or Please clarify.	Please clarify.	An IPS works by analyzing network traffic in real-time and comparing it against known attack patterns , malicious traffic and signatures. When the system detects suspicious traffic, it blocks it from entering the network. This feature is actually includes in WIPS feature in WLC which is must required.

39	1. Technical Specification: 1.2. SOR-2 (Indoor Access Point): CT2O4	31	Must support DHCP Option 82, defined in RFC 3046, including support for Sub-option 01 (Circuit-Id) and Sub-option 02 (Remote Id) fields in all mode.	What is the use case for DHCP option 82. Please clarify?	Please clarify.	DHCP option-82 feature is required to send user related data , like cicuit ID ,remote id , agent id , Users MAC , AP hostname etc to the BNG and further AAA for capturing precise details for Users.
40	1. Technical Specification: 1.2. SOR-2 (Indoor Access Point): CT2Q2	32	Should be Wi-Fi Alliance certified and WPC Approved and ETA Certified	Uses scenarios might make it unnecessary to obtain all of the mentioned certifications (WPC-ETA, Wi-Fi Alliance, Type approval, and MTCTE) for their Wi-Fi Access points. Certifications from international bodies such as the Wi-Fi Alliance may not be mandatory for the Indian market. These certifications are crucial for global market access and interoperability. Therefore, RaiTel may offer exemptions for domestically intended products, especially for those that do not impact international spectrum coordination. MSMEs often operate with limited financial resources. Fewer certifications mean reduced expenses, making it more feasible for these companies to bring innovative Wi-Fi solutions to the market. Also, Simplified certification processes contribute to India's self-reliance goals by fostering a more favorable environment for domestic companies. Prioritizing compliance with local regulations, such as MTCTE for telecom equipment in India, might suffice for legal and regulatory compliance within the country.	Please change the clause as requested.	Please see corrigendum-III
41	1. Technical Specification: 1.2. SOR-2 (Indoor Access Point): TEC/GR	32	Wi-Fi Access Point equipment for indoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandotory by OEM as per para-9 and para-10 of Notification No. 18-10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order-2017.	We kindly request an exemption from Type Approved as per TEC GR no. 38020:2021 for MSME. This exemption will alleviate the financial burden and administrative complexities, allowing us to channel resources into product development and growth. As a local entity serving the Indian market, our commitment to compliance remains unwavering. We believe this exemption will foster innovation and enhance our contribution to the Indian technology landscape. All prioritizing compliance with local regulations shall be covered under MTCTE.	Please change the clause as requested.	Please see corrigendum-III
42	3.3.2 Eligibility Criteria for OEM's: Point No. 4	17	The OEM must be registered on Trusted Telecom Portal (Authority: DOT notification No. 20-1263/2021-AS-I Dated: 30.03.2021, https://trustedtelecom.gov.in) and must have MTCTE (Mandatory Testing and Certification of Telecom Equipment) certificate. Documentary evidence for the same must be submitted online; without document proof, bid will be summarily rejected. (Authority: DOT circular No. 5-2/2021-TC/TEC/112 dated 31.01.2022, https://www.mtcte.tec.gov.in	a. We are registered on trusted portal. b. MTCTE : - We have applied for this certification. Although, it is exempted by Gov. India till Jan, 2024. Hence we request you to exempt for MSME.	We request you to please exempt for MSME. As it is already exempted by Gov. India till Jan, 2024.	No Change

43	3.3.2 Eligibility Criteria for OEM's: Point No. 5	17	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected	We kindly request an exemption from Type Approved as per TEC GR no. 38020:2021 for MSME. This exemption will alleviate the financial burden and administrative complexities, allowing us to channel resources into product development and growth. As a local entity serving the Indian market, our commitment to compliance remains unwavering. We believe this exemption will foster innovation and enhance our contribution to the Indian technology landscape. All prioritizing compliance with local regulations shall be covered under MTCTE.	Please change the clause as requested.	Please see corrigendum-III
44	3.14	23	Payment Terms:In case of "Supply and Installation"	As per tender document, it is a supply tender and installation scope is not meentioned in the tender but in clause no. 3.14 of payment term installation is mentioned which will impact the payment timeline. So please clarify the same.		No Change
45	1.2	32	SOR-2 (Indoor Access Point)	Reference (CT2EES6), Environmental and Electrical Specifications: For Indoor access point, IP67 certificate has been asked.	IP67 certificate required for Outdoor environment. This should not be applicable in Indoor hence requesting to remove the same.	Please see corrigendum-III
46	Clause 6.4, Chapter-6	7	Earnest Money Deposit (EMD)/ Bid Security: Rs 14.72 Lakhs Through enivida Portal	Request you to please add EMD in the form of Bank Guarantee, also as a mode of acceptable Bid Security in addition to online mode.		No change.
47	INDOOR AP (CT2O5)	31	With Controller APs (from a data-plane plane perspective) must support: - Ethernet over GRE IPv6 tunnel - Automatic detection of failed tunnel termination, with configurable connection retry and timeout. - Automatic failover to secondary tunnel termination address.	Request to allow support of mentioned feature as part of Overall solution.		Clarification : When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar. This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.
48	SWITCH (13)	35	i) Surge protection of ± 2 kV (line-earth) and ± 1 kW (line-line) on power ii) Surge protection of ± 4 kV on Ethernet ports and this will be applicable in case switch has copper ports.	As per IEC 61000-4-5 standards , Device should have surge protection of ± 2 kV. So request to ammend this clause.		No change.External surge protector can be provided to meet ± 4 kV surge protection.
49	SWITCH (20)	36	Switch should have safety compliance of UL.	Please also accept equivalent IEC certificate for safety.		Please see corrigendum-III
50	SWITCH(23)	36	IPv6 feature should be ready from day 1.	Please confirm if IPv6 logo certificate is to be submitted in support of IPv6 feature compliance.		No change.

51	3.3.2 Eligibility Criteria for OEM's (5)	17	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected.	Request to accept "Form B" issued by TEC at the time of bid submission while TAC certificate submission may be mandated before supply of equipments.		Please see corrigendum-III
52	3.3.2 Eligibility Criteria for OEM's	17	WI-Fi Alliance Certificate	Request inclusion of WI-Fi alliance certificate for offered wifi access points as the above certification ensure that the offered product have met industry-agreed standards for interoperability, security, and a range of application specific protocols.		No change
53	3.9 SPLITING OF QUANTITY(3.9.1)	20	The order will be split between L1 and L2 (respective schedule) in the following ratio: L1- 65% L2- 35%	Please confirm if splitting is applicable even in case of two different OEM solition proposed by L1 & L2 bidder. As per our understanding, in case of splitting L1 and L2 in above scenerio, it will create two separate networks at centralised location. Also server requirement would be different for L1 & L2 bidder at RailTel DC & DR.		Please see corrigendum-III
54	3.9 SPLITING OF QUANTITY(3.9.2)	20	3.9.2 L2 bidder will be given counter offer at rate of L1 bidder. In case of refusal by L2 for accepting the counter offer, this quantity will be awarded to L1 bidder.			
55	3.9 SPLTING OF QUANTITY(Note)	20	Splitting of quantity will be done only if both L1 and L2 bidders are from same class of local supplier.			
56	OUTDOOR AP(CT207)	29	Must support data-plane split tunneling in which ACLs may be configured to enable a range of destination net blocks and/or IPs/Mac to bypass the data-plane tunnel and be bridged on the wired interface.	As per our understanding, 2 SSID will be created, one with EoGRE tunnel and another with local breakout. Also EoGRE tunnel will sends complete L2 traffic to central site. So, IP or MAC based routing is not required. Please confirm whether the understanding is correct.		Clarification : When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar. This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.

57	OUTDOOR AP(CT209)	29	AP should have capability to split tunnel for specific destination Mac/IP/Subnet (For implementing policy based Caching solutions) using local NAT and forward user traffic.	Request to share details on where caching server will be residing in the network as this information will help to propose best suitable solution		Clarification : When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar. This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.
58	OUTDOOR AP(CT2EES8)	30	Should Support Surge Protection on Ethernet Ports to meet the requirement at High Voltage Transmission Line running across the Railway Platform. If any OEM/Bidder can't provide inbuilt surge protection of min. ± 4 kV in AP, external surge protection must be proposed. Surge protection of min. ± 4 kV on copper Ethernet ports.	As per IEC 61000-4-5, Device should have surge protection of ± 2 kV. So request to ammend this clause.		No change.External surge protector can be provided to meet ± 4 kV surge protection.
59	OUTDOOR AP(TEC/GR)	29	Wi-Fi Access Point equipment for outdoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandotory by OEM as per para-9 and para-10 of Notification No. 18-10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order-2017.	Request to accept "Form B" issued by TEC at the time of bid submission while TAC certificate submission may be mandated before supply of equipments.		Please see corrigendum-III
60	INDOOR AP(CT207)	31	Must support data-plane split tunneling in which ACLs may be configured to enable a range of destination net blocks and/or IPs/Mac to bypass the data-plane tunnel and be bridged on the wired interface.	As per our understanding, 2 SSID will be created, one with EoGRE tunnel and another with local breakout. Also EoGRE tunnel will sends complete L2 traffic to central site. So, IP or MAC based routing is not required. Please confirm whether the understanding is correct.		Clarification : When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar. This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.

61	INDOOR AP(CT209)	32	AP should have capability to split tunnel for specific destination Mac/IP/Subnet (For implementing policy based Caching solutions) using local NAT and forward user traffic.	Request to share details on where caching server will be residing in the network as this information will help to propose best suitable solution		Clarification : When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar. This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.
62	INDOOR AP (CT2EES5)	32	The equipment shall support up to 150 Kmph sustained winds.	Wind speed is not applicable for indoor deployment. Request to remove clause		Please see corrigendum-III
63	INDOOR AP (CT2EES6)	32	The Access point shall be IP67 certified.	IP67 cetification is not applicable for indoor deployment Request to remove clause		Please see corrigendum-III
64	INDOOR AP (CT2EES8)	32	Should Support Surge Protection on Ethernet Ports to meet the requirement at High Voltage Transmission Line running across the Railway Platform. If any OEM/Bidder can't provide inbuilt surge protection of min. ± 4 kV in AP, external surge protection must be proposed. Surge protection of min. ± 4 kV on copper Ethernet ports.	As per IEC 61000-4-5 standards , Device should have surge protection of ± 2 kV. So request to ammend this clause.		No change
65	INDOOR AP (TEC/GR)	32	Wi-Fi Access Point equipment for indoor use shall be Type Approved as per TEC GR no. 38020:2021 with latest amendment. Certificate of TEC/GR is mandotory by OEM as per para-9 and para-10 of Notification No. 18-10/2017-IP dated 29.08.2018 issued by DOT (Ministry of Communication) regarding Public Procurement (Preference to Make in India) Order-2017.	Request to accept "Form B" issued by TEC at the time of bid submission while TAC certificate submission may be mandated before supply of equipments.		Please see corrigendum-III
66	CONTROLLER (WCS6)	34	Controller should have profiling of devices based on protocols like HTTP/DNS, DHCP and more to identify the end devices on the network	Profilling can be done on various parameters as mentioned in tender clause, our proposed solution supports profiling based on dhcp so request to allow any of the mentioned parameter.		Security Controller should have profiling of devices based on protocols like HTTP/DNS/DHCP and more to identify the end devices on the network
67	CONTROLLER (WCO6)	34	Must support Ethernet over GRE IPv4 tunnel	Request to allow support of mentioned feature in Overall solution.		No change
68	CONTROLLER(WCO 7)	34	Must support Ethernet over GRE IPv6 tunnel	Request to allow support of mentioned feature in Overall solution.		No change
69	CONTROLLER (WCO11)	34	must be wifipasspoint 2 complaint	WiFi Passpoint 2 compliance is requirement for access point and not controller. So request to remove this clause or this should be asked for access points.		Please see corrigendum-III

70	CONTROLLER(WCO 13)	34	Must support configuration of data-plane split tunneling by enabling specific destination IP addresses and net blocks to bypass the data-plane tunnel and be bridged on the wired interface	As per our understanding, 2 SSID will be created, one with EoGRE tunnel and another with local breakout. Also EoGRE tunnel will sends complete L2 traffic to central site. So, IP or MAC based routing is not required. Please confirm whether the understanding is correct.		Clarification : When a client is connected over a WAN link associated with a centrally switched WLAN wants to send some data to a device in local site, then the client has to send the traffic over CAPWAP or similar to the controller and then get the same data back to the local site over CAPWAP or similar. This consumes WAN link bandwidth as the same data is send and received. This can be avoided to utilize the WAN bandwidth efficiently.Split tunneling feature helps avoid such scenario by classifying the data send by the client based on the packet contents using ACL. The matching packets are locally switched and the rest of the traffic is centrally switched. The traffic that is sent by the client that matches the IP address/MAC/Net Blocks of the device present in the local site can be classified as locally switched traffic and the rest of the traffic as centrally switched.
71	CONTROLLER(WCH W2)	33	Controller should be of maximum 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 5000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs in future. (Additional hardware and licenses required will be provided by RailTel)	Request removal of Stacking feature asked in controller as it is used in Switching only and is not applicable for wireless controller i.e. if multiple controllers are required to be connected then we can use clustering.		Please see corrigendum-III
72	3.3.2 Eligibility Criteria for OEM's(4)	17	The OEM must be registered on Trusted Telecom Portal (Authority: DOT notification No. 20- 1263/2021-AS-I Dated: 30.03.2021, https://trustedtelecom.gov.in) and must have MTCTE (Mandatory Testing and Certification of Telecom Equipment) certificate. Documentary evidence for the same must be submitted online; without document proof, bid will be summarily rejected. (Authority: DOT circular No. 5-2/2021-TC/TEC/112 dated 31.01.2022, https://www.mtcte.tec.gov.in	Self - Declaration should not be considered as documentary evidence for Trusted Source & MTCTE, as any OEM irrespective of having competence & capability, can give Self-Declaration and RailTel will have no mechanism to shortlist the fully complied OEM at the time of technical bid evaluation. Request please ask for relevant certification for Trusted Source & MTCTE.		No Change
73	3.3.2 Eligibility Criteria for OEM's(5)	17	It is mandatory to submit the certificate of TEC GR no. 38020:2021 with latest amendment for Outdoor and Indoor Wi-Fi Access Point equipment by OEM, without submission of certificate, bid will be summarily rejected.	TEC GR certification takes at least 3-4 months time however TEC issues Form B after first level of screening of test reports and payments of fees. It is requested to accept Form-B for TEC certificate at the time of bid submission and TEC GR certificate may be mandated prior to supply of equipments. This is a standard practice where ever TEC GR certificate is asked.		Please see corrigendum-III
74	INDOOR AP(CT3EES5)	32	The equipment shall support up to 150 Kmph sustained winds.	Not applicable for indoor units		Please see corrigendum-III
75	INDOOR AP(CT3EES6)	32	The Access point shall be IP67 certified.	Not applicable for indoor units		Please see corrigendum-III

76	CONTROLLER(WCHW2)	33	Controller should be of maximum 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 5000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs in future. (Additional hardware and licenses required will be provided by RailTel)	Instead of stacking, clustering of controller should be asked to meet the scalability requirement of future.		Please see corrigendum-III
77	CONTROLLER (WCO11)	34	must be wifipasspoint 2 complaint	Passpoint 2 is asked for Access Point and not for controller. Request to remove this.		Please see corrigendum-III
78	SWITCH (20)	36	Switch should have safety compliance of UL.	We understand equivalent IEC certifications are also accepted.		Please see corrigendum-III
79	SWITCH(23)	36	IPv6 feature should be ready from day 1.	IPv6 logo certificate substantiate the proof of meeting IPv6 feature and must be asked in support of the asked requirement.		No change
80	CT2O5(Operational)		Ethernet over GRE IPv6 tunnel	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	Ethernet over GRE	Please see corrigendum-III
	CT208(Operational)		AP should have capability to split tunnel for both IPv4 and IPv6 tunnel to segregate the management and data traffic.	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	AP should have capability to split tunnel for both IPv4/ IPv6 tunnel to segregate the management and data traffic.	AP should have capability to split tunnel for both IPv4 & IPv6 tunnel to segregate the management and data traffic.This is operational requirement and clause is clear.
81	SOR-2(Indoor Access Point)- CT2M3(Mesh)	31	Access point shall have wired uplink interfaces i.e. 1X10/100/1000BASE- T Ethernet	Fast Ethernet 10/100 Mbps support is generally required to connect the legacy machines, nowadays all the devices support 1000 Base-T Interface. In this case, Access Point will be connected to a Gigabit Switch over 1000Base-T Port and 10/100 Mbps will never be used and not desired as well for optimal performance of the Wireless Network. Therefore for Multi-OEM participation, please modify the clause.	Access point shall have wired uplink interfaces i.e. 1G Base-T Ethernet	Please see corrigendum-III
	CT2O5(Operational)		Ethernet over GRE IPv6 tunnel	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	Ethernet over GRE	Please see corrigendum-III
	CT208(Operational)		AP should have capability to split tunnel for both IPv4 and IPv6 tunnel to segregate the management and data traffic.	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	AP should have capability to split tunnel for both IPv4/ IPv6 tunnel to segregate the management and data traffic.	AP should have capability to split tunnel for both IPv4 & IPv6 tunnel to segregate the management and data traffic.This is operational requirement and clause is clear.
	CT2EES3(Environmental and Electrical Specifications)		Access point shall support pole, wall, and roof mounting options.	This seems a typo mistake as the specifications are meant for Indoor Access Point and support for Pole Mount has been asked. Please clarify this clause to have better understanding.	Access point shall support wall, and roof mounting options.	Please see corrigendum-III
	CT2EES5(Environmental and Electrical Specifications)		The equipment shall support up to 150 Kmph sustained winds.	This seems a typo mistake as the specifications are meant for Indoor Access Point and support up to 150 Kmph sustained winds has been asked. Please clarify this clause to have better understanding.	This Clause shall be deleted	Please see corrigendum-III
	CT2EES6(Environmental and Electrical Specifications)		The Access point shall be IP67 certified.	This seems a typo mistake as the specifications are meant for Indoor Access Point and IP67 certified has been asked which is applicable for Outdoor Access Points. Please clarify this clause to have better understanding.	The Access Point shall be UL 2043 Plenum rated.	Please see corrigendum-III

	CT2EES7(Environmental and Electrical Specifications)		The Access point shall be rated for operation over an ambient temperature range of 0C to +55 C	All the leading OEMs Indoor Access Points support a operating temperature range of 0C to +50C which is sufficient for any Indoor Application/ Environment. Therefore for Multi-OEM participation, please modify the clause.	The Access point shall be rated for operation over an ambient temperature range of 0C to +50 C	Please see corrigendum-III
82	Point No 16 of SOR-3 (PoE Switch)	36	i) Operating Temperature - min -0 to 50 °C (23 to 122 °F)	All the leading OEMs PoE Switches support a operating temperature range of 0C to +45C which is sufficient for any Indoor Application/ Environment. Therefore for Multi-OEM participation, please modify the clause.	i) Operating Temperature - min -0 to 45 °C (23 to 122 °F)	Operational requirement.
83	Technical Specifications for Wireless Controller-WCHW2 (Hardware and Standards)	33	Controller should support 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 5000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs in future. (Additional Hardware and licenses required will be provided by RailTel)	This clause is restricting us to bid as the asked support of 5000 Access Points on a Single Chassis is too high config. Therefore we request you to please modify the clause to make the bid generic.	Controller should support 2U form factor and multiple stackable controllers must be proposed from Day One from single chassis of minimum 2000 Access Points. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 6,000 or more APs. OR Cloud/ Appliance based wireless controller shall support 5000 Access Points from Day 1. Proposed controller should support 1+1 or N+1 redundancy from the day one. The solution should be scalable to support 20,000 or more APs.	Please see corrigendum-III
	WCIP2 (IPv6 features)		WLC should support Guest-access functionality for IPv6 clients	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	WLC should support Guest-access functionality for IPv4/ IPv6 clients	WLC should support Guest-access functionality for IPv6 clients, clause is clear.
	WC07 (Operational)		Must support Ethernet over GRE IPv6 tunnel to northbound gateway.	This clause is restricting us to bid, request you to please modify the clause to make the bid generic.	This Clause shall be deleted	No change