

Response to Pre-Bid Queries

Solution for DWDM channel capacity augmentation as per the proposed traffic matrix, existing DWDM network configuration and fibre characteristics for the OFC based communication network of RailTel"						
OPEN E-TENDER NO. : RCIL_ER_2021-22_1299- 1303 Dt. 19.06.2021						
Pre Bid Quires by:				M/s. Ciena India		
S.No	Clause no. & Chapter no.	Page #	Sub-clause no./ Point no.	Content of the clause requires clarification	Points of clarification required	Response of RCIL
1	4A	62		75% payment of the value of the supply items would be made on receipt of material by the consignee....	We request RailTel to modify 'Equipment Payment' as 90% payment on delivery; 5% on PAC 5% on FAC Request to Kindly Confirm.	Tender condition are very clear, no change is proposed.
2	4A	67	12.2(3)	Technical Capability: Completion certificates with Satisfactory working and value of the work completed from the User Organizations is required to be submitted.	We understand that against this Technical eligibility clause , the bidder have to submit the user certificate mentioning the successfully completion of the Scope as per Purchase Order (PO) along with PO number and amount. Request you to Kindly Confirm.	Yes
3	4A	69	Note	Credentials if submitted in foreign currency shall be converted into Indian currency	We understand that bidder have to submit the bid in INR only. Bids with foreign currency are NOT allowed in the tender. Request to Kindly Confirm.	Yes
4	4A	72	12.3(3)	OEM should submit self-certificate with proper contact detail of clients along with PO reference and amount supplied (Firm Name, Contact person, Designation, Telephone Number, Fax, Official mail id etc.). The same should be issued by authorized signatory.	OEMs and Customer are binded by mutual non-disclosure agreement where both the parties (OEM & Customer) are are not authorised to share any such confidential information to anyone. We request you to kindly consider ' Self-Declaration ' from OEM in support of this clause. Request you to kindly Confirm.	Tender condition are very clear, no change is proposed. Already asked for self certificate.
5	4A	59	2.5.1	In addition two NMS trained engineer (one for each SOR package) shall be provided at the NOC location in each Region...	We understand that the RFP has 5 SORs. So we understand that Five (5) NMS trained engineer (one for each SOR package) shall be provided at the NOC location in each Region. Request to Kindly Confirm.	Refer Corrigendum-4
6	1.3.3.3 / Delhi to Kolkata (DCM)	32	b	OADM sites equipped with 80 Channel Mux/Demux (minimum) with 100 GHz channel spacing.	Is it 100GHz system (including Mux/Demux + WSS + AMP etc) OR 50 GHz system. Because if its 100GHz than channel count would be 40 only. Request Please clarify	Refer Corrigendum-4

7	1.3.3.4 / Delhi to Chandigarh (DCM)	33	b	OADM sites equipped with 80 Channel Mux/Demux (minimum) with 100 GHz channel spacing.	Is it 100GHz system (including Mux/Demux + WSS + AMP etc) OR 50 GHz system. Because if its 100GHz than channel count would be 40 only. Request Please clarify	Refer Corrigendum-4
8	1.4.19	36		Proposed Muxponder/Transponder shall provide following client protocol interface. i. 100GE or 40 GE ii. 10GE iii. STM-64 iv. 8G FC	Mix of 10GEs and 100GE client ports would need minimum 200G or higher line rate Muxponder/Transponder card, Requesting RailTel to make Traffic matrix with minimum 200G traffic per sector else allow 100G Muxponder card which has 10 x 10G client Ports for traffic sectors with only 1x 100G capacity requirement	Refer Corrigendum-4
9	1.4.19	36		Proposed Muxponder/Transponder shall provide following client protocol interface. i. 100GE or 40 GE ii. 10GE iii. STM-64 iv. 8G FC	For traffic Sectors more than 100G capacity requirement (20x 10G = 200G or 30 x 10G= 300G) mix of 10GE and 100GE client ports Muxponder card is ok however Request RailTel to allow following client interfaces as its high capacity card i. 100GE or 40 GE ii. 10GE iii. STM-64 iv. 8G FC or 16G FC	Minimum requirement should be fulfilled. Any high configuration can be allowed.
10	1.3.9	34	1.3.9/1	Reach (km) on 10G DWDM Network (with DCM) 500* Km with following parameters 1. Fiber loss per section: 24-28db 2. Total connector Loss: 1dB. 3. Fiber Repair Margin: 2dB. 4. Fiber Type: -Single mode G652D 5. No of Sections in between: -10 Nos 6. No of OADM (ROADM) Side in between – 02 Nos	Since DCMs have internal fiber spools and mixing of non-Coherent 10G Lambdas have extra penalties on 100G coherent systems. And 28 dB per span with 2 dB margin and 1 dB connector loss is very high span loss, So Request RailTel to allow following parameters for 100G reach on 10G DWDM based network. 500* Km with following parameters 1. Fiber loss per section: 24 dB 2. Total connector Loss: 1dB. 3. Fiber Repair Margin: 2dB. 4. Fiber Type: -Single mode G652D 5. No of Sections in between: -10 Nos 6. No of OADM (ROADM) Side in between – 02 Nos	Refer Corrigendum-4
11	1.3.9	34	1.3.9/2	Reach (km) with 100G DWDM Network (without DCM) 800* Km with following parameters 1. Fiber loss per section: 24-28db 2. Total connector Loss: 1dB. 3. Fiber Repair Margin: 2dB. 4. Fiber Type: -Single mode G652D 5. No of Sections: -12 No 6. No of OADM Side (ROADM) in between – 04 Nos	Instead of of range of 24 - 28 dB, Requesting RailTel to allow avg of 24-28 that is 26 dB per span as per following Reach (km) with 100G DWDM Network (without DCM) 800* Km with following parameters 1. Fiber loss per section: 26 dB 2. Total connector Loss: 1dB. 3. Fiber Repair Margin: 2dB. 4. Fiber Type: -Single mode G652D 5. No of Sections: -12 No 6. No of OADM Side (ROADM) in between – 04 Nos	Refer Corrigendum-4

12	4.A.2.5.	59	4.A.2.5.1	The tenderer shall keep minimum two maintenance engineers at the locations approved by RailTel, who will visit the total installation as per the instructions of Purchaser's Engineer	Request RailTel to allow these maintenance report capturing / submission thru NMS as these are terminal sites only.	Tender condition are very clear, no change is proposed.
13	4.A.2.5.	59	4.A.2.5.1	In addition two NMS trained engineer (one for each SOR package) shall be provided at the NOC location in each Region, as part of maintenance supervision obligation.	Are these per SoR, How many Engineers to be considered in each SoR pls clarify	Refer Corrigendum-4
14	8.A.4.7	145	8.A.4.7	DWDM Colored 10G SFP+	Not applicable to any of SOR so should be deleted	Tender condition are very clear, no change is proposed. Requirement ask in the SOR only to be refer for technical compliencies as per chapter 8A
15	7	159	6	KKDE-UMB , First los variation between A-B and B-A is more than 5 dB	Request RailTel to allow to consider minimum of these two fiber loss for design considerations.	In case of fiber loss variations is more than 2 dB in 1st Fiber Loss and 2nd Fiber Loss of same fiber pair. In that case Bidder is allowed to consider lower of both these fiber loss value for Link engineering.
16	Generic			Client Port SFP+ / XFP type details are missing.	Request RailTel to confirm if following could be considered for 10G Plug Type for Solution / BoM Client Port SFP+ / XFP type should be multiprotocol / Multi Rate (10GE/OUT/STM64/FC) with 1310 nm 10 kms support.	Client Port should be Multi Rate (10GE/STM64) with 1310 nm 10 kms support
17	Generic			To run 100G / 200G Coherent Channels over 3rd Party 10G DCM based network would need actual network details to validate the design on tool as per actual network conditions	Would need following details to validate the 100G coherent channels in design tool over 10G DCM based network (actual network data) 1. DCMs placement for every site link by link with Signal flow 2. DCMs values in Kilometers 3. DCMs insert loss in dB 4. DCMs are placed in-between Mid access of ILA sites or kept on DWDM Line as well 5. Are DCMs placed on ILA sites only or keeping at ROADM sites as well	DCM details is attached in Annexure V
18	Generic			Span by Span, existing spectrum (C- band) details as per actual network conditions	Apart from Fiber loss and nos of Channel would need following details as well to validate design in tool as per actual network conditions - 1. Actual Channel nos configured against these Lambdas 2. Per channel Power 3. Gain of Amplifiers configured actually in Network 4. Any fixed attenuators used in the network Line side.	Tender condition are very clear, no change is proposed.
19	Generic			Already planned DWDM systems (Slots, Chassis etc over new DWDM sites)	Requesting RailTel to allow already Planned DWDM systems (Slots, Chassis etc over new DWDM sites) for this capacity augmentation to have optimum & cost effective solution proposal.	Bidder can consider already planned DWDM sites for desgining the solution.
20	Generic			10G DCM based system is 50 GHz or 100 GHz system for each of traffic sector	Requesting if RailTel could help to map existing 10G DCM based system if its 50 GHz or 100 GHz system for each of traffic sector	Tender condition is clear . ADVA 10G optical layer is 100Ghz and Coriant DWDM and Tejas is 50Ghz system.

21	1.3.1	23	a (Traffic matrix for Section-1) / Sr#1	Kolkata-DGR >>>> Path2:-Kolkata- BXNR-RHA-DGR.	IS this 100GHz or 50 GHz support in Mux/Demux + WSS etc	100GHz
22	Generic	23 - 27		Fiber loss details missing for some of Traffic sectors	<p>Request RailTel to arrange Fiber loss , nos of Channels, DCM free or DCM based network details along with DCMs and channels details for following sections</p> <p>SoR-1</p> <ul style="list-style-type: none"> - BXNR-RHA-DGR - Path2: BXNR-Kolkata - Path1 Kolkata- Khana - Path2: Khana- BXNR-Kolkata - Katni-BSP <p>SOR-2</p> <ul style="list-style-type: none"> - Path 2:-Manmad- WADI-PUNE-SC 	Available in Annexures I to IV

Pre Bid queries by :			Vista Information Systems Private Limited			
S.No.	Clause No.	Page No.		Description	Query	Response of RCIL
1	3.A.1.0	22		The required network shall be Dense Wave Division Multiplexing (DWDM) based system and End of Life (EoL) shall not be less than 8 Years and capacity shall be 4 Tbps in Backbone. The system must be programmable and highly intelligent, with very basic, robust and simple architecture.	We understand that required 4Tbps capacity is related to OLS system and transponder/muxponder has to propose based on traffic matrix.Please confirm	Tender condition are very clear
2	1.3.4	33		Alien wavelength solution must be designed without impacting existing channel however few tuning (Amplifier Gain, tilt.) allowed for optimization and shall not require truck roll.	We understand that few tuning is related to amplifier gain, tilt inbuilt VOA and ROADM VOA, Mean these parameters to be allowed for traffic optimization if required, Please confirm	Tender condition are very clear
3	1.3.7	33		Bidder/OEM can use proposed and existing DWDM Network of same OEM make components like chassis, OSC system and modules in MDWDM Network at common locations/paths.	We understand that Bidder/OEM can take leverage of existing/deployed 10G & 100G DWDM Hardware & Management system, Please confirm	Tender condition are very clear
4	1.4.15	36		For Linear traffic, Bidder should also propose 4 port client protection modules at each Transponder/Muxponder locations and protection switching shall be triggered based on Loss of Signal at client port.	We understand that 4 port client protection module is related to switching module, please confirm	Yes
5	1.4.16	36		Protection switching shall be triggered based on Loss of Signal and Pre-FEC BER signal failure/Degrade signal failure at line side.	We understand that switching shall be triggered LOS and Pre FEC BER/OSNR/Degrade condition, Please confirm	Tender condition are very clear

6		26		Traffic matrix for Section-5	Does section 5 of SoR require DWDM optical layer also? As this is mentioned in the clause 1.3.9 at page 34 that DWDM optical layer is not ready in some section and Alien wavelength supported standard muxponder will be proposed?	The optical layer for section 5 is not required and also refer traffic matrix for section 5.
7	1.4.19	36		Proposed Muxponder/Transponder shall provide following client protocol interface. i. 100GE or 40 GE ii. 10GE iii. STM-64 iv. 8G FC	As per traffic matrix only 10G rate clients are needed. But in this clause 40GE/100GE client also mentioned. Please clarify its requirement?	Tender condition are very clear and also refer corrigendum -4
8	3	40		SYSTEM REQUIREMENT: It shall be possible to equip the system progressively, in accordance to the number of channels transmitted, in order to allow real "pay as you grow" configurations. The system shall support Optical Terminal Multiplexers (OTM), Optical Line Amplifier (OLA) and Optical Add and Drop Multiplexers (OADM). The DWDM system shall support a wide range of network topologies as per following: - a) Terminal configuration Point-to-point. b) Point-to-point with linear OADM add-drop chains. c) DWDM ring with OADMs. The system shall support true optical ring closure	OTM, OLA, ADM are required? As tender ask for only Line cards without optical layer. Please clarify?	The optical layer is not required and also refer traffic matrix
9	8.5	42		100G client interface shall be LR4 type with dual rate	100GE client is mentioned but as per traffic requirement only 10G clients are required please clarify?	solution should be proposed as per SOR, however the proposed system should also support 100G/40G ports in case required in future. Refer clause 1.4.19
10	8.6	42		Bidder can propose Regeneration (3R), if required.	In Section 8.6 Regenerator can be proposed but as per following Ref. Page 40, 3 c, Regeneration is not allowed. Please clarify?	Regeneration is allowed at OADM site only
11	8.A.1.1.2 & 8.A.1.1.6	137		The proposed chassis at OADM sites shall support minimum 8x100G client-side capacity from day-one.	8x100G client side capacity is mentioned. Is it required please clarify?	Tender condition is very clear
12	8.A. 1.3.1.2	138		10G Muxponder shall support any-rate SFP modules that can be flexibly provisioned to all above mentioned data rates. All client ports shall support flexible configurations i.e. it shall be possible to configure some ports on SDH client, some ports on packet client at the same time.	It is required for 10G muxponder to support any rate SFP modules. What is the reach needed for this requirement. The same has price impact and needs to be quoted accordingly as per Sno 4 of Page 104 - Document uploaded along with financial bid	Tender condition is very clear

13	Qualifying Criteria for Bidder , Sr No. 2	97		<table><tr><td rowspan="6">2</td><td rowspan="6">Clause 4.A.12.2 (3), Chapter- 4A (Technical Capability)</td><td>Single Order 60% of SOR Value</td><td>277.83</td><td>196.76</td><td>88.08</td><td>32.97</td><td>63.29</td></tr><tr><td>Two Orders each of 40% of SOR Value</td><td>185.22</td><td>131.17</td><td>58.72</td><td>21.98</td><td>42.2</td></tr><tr><td>Three Orders each of 30% of SOR Value</td><td>138.91</td><td>98.38</td><td>44.04</td><td>16.49</td><td>31.65</td></tr><tr><td>For Startup- Single Order 35% of SOR Value</td><td>162.07</td><td>114.78</td><td>51.38</td><td>19.23</td><td>36.92</td></tr><tr><td>For Startup- Two Orders each of 20% of SOR Value</td><td>92.61</td><td>65.59</td><td>29.36</td><td>10.99</td><td>21.10</td></tr><tr><td>For Startup- Three Orders each of 15% of SOR Value.</td><td>69.46</td><td>49.19</td><td>22.02</td><td>8.24</td><td>15.82</td></tr></table>	2	Clause 4.A.12.2 (3), Chapter- 4A (Technical Capability)	Single Order 60% of SOR Value	277.83	196.76	88.08	32.97	63.29	Two Orders each of 40% of SOR Value	185.22	131.17	58.72	21.98	42.2	Three Orders each of 30% of SOR Value	138.91	98.38	44.04	16.49	31.65	For Startup- Single Order 35% of SOR Value	162.07	114.78	51.38	19.23	36.92	For Startup- Two Orders each of 20% of SOR Value	92.61	65.59	29.36	10.99	21.10	For Startup- Three Orders each of 15% of SOR Value.	69.46	49.19	22.02	8.24	15.82	In the Technical capability , kindly confirm the bidder understanding "that in the requirement for single order each of 60% of SOR value" the bidder can provide same eligibility requirement/certificate in all the SOR i.e SOR-1 , SOR-2 , SOR-3, SOR-4 & SOR-5	Bids against all SORs will be evaluated independently. However bidders are allowed to use common purchase orders/work orders as financial eligibility for all SORs.
2	Clause 4.A.12.2 (3), Chapter- 4A (Technical Capability)	Single Order 60% of SOR Value	277.83	196.76			88.08	32.97	63.29																																			
		Two Orders each of 40% of SOR Value	185.22	131.17			58.72	21.98	42.2																																			
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		For Startup- Three Orders each of 15% of SOR Value.	69.46	49.19	22.02	8.24	15.82																																					
14	4.A.12.2.2	16	<p>Certificates to this effect which may be an attested Certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant /Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p> <p>Note: Client certificate from other than Govt. Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax</p>	<p>The bidder would like to mention that as a proof of Financial capability Audited Balance Sheet are sufficient as the same are signed and stamped by a authorized chartered accountant.</p> <p>There is no need for Form 16A/26AS from client as these forms are internal document of our client and are for private use only. Moreover these forms do not show the nature of transaction , thereby does not have any meaningful impact of financial capability clause</p>	As per tender clause																																							
15	VIII	19		Bidder has to provide their complete solution independently for all SORs	Kindly confirm bidder understanding that different NMS (DC & DR) are to be considered for SOR-1 , SOR-2 , SOR-3, SOR-4 & SOR-5 independently	Requirement in SOR are clearly mentioned.																																						

Pre Bid queries by :		Teleindia Networks				
S.No	Clause no. & Chapter no.	Page	Sub-clause no./ Point no.	Content of the clause requires clarification	Points of clarification required	Response of RCIL
1	4.A.12.2	67	12.2 point#3	Technical Capability: Completion certificates with Satisfactory working and value of the work completed from the User Organizations is required to be submitted.	We Assume that against this Technical eligibility clause , the bidder have to submit the user certificate mentioning the successfully completion of the Scope as per Purchase Order (PO) along with PO number and amount. Request you to Kindly Confirm.	YES
2	4A.12.3	71	point#2	Eligibility Criteria Requirements for OEM's: - Satisfactory Working Performance of the same series/family from the same OEM by the user is required to be submitted and it should be issued during last one year from the date of opening of Tender.	We got issued user experience certificate for new DWDM deployment for 500 Kms on Jun'2020 at the time of 100G DWDM Tender#549 which was cancelled Previously. Because of on-going Pandemic situation most of Customer's staff working remotely so its very difficult to get user certificate again. There requesting RailTel to allow " issued user certificate during last one year from the date of release of Tender " instead of Opening of Tender.	Satisfactory Working Performance of the same series/family from the same OEM by the user is required to be submitted and it should be issued during last one year from the date of publication of tender.
3	4.A.22.1	82	22.1	EMD Exemption	Kindly confirm if EMD can be exempted if Bid security declaration is submitted as per Railtel letter No.RCIL-CO0OP(CORR)/1/2021-O/o ED/Operations/CO/RCIL (E 14736) Dt. 04.06.2021	Refer Corrigendum-1

Pre Bid queries by :		Tejas Networks Networks				
SN	Clause no. & Chapter no.	Page no.		Content of the clause requires clarification	Points of clarification required	Response of RCIL
1	1.3.7	33		Bidder/OEM can use existing DWDM Network components like chassis/OSC system/modules for proposed 100G or higher rate Channels without impacting traffic and functionality of DWDM Network existing traffic.	In case, the incumbents are allowed to use available slots for deployed DWDM Systems,the modules can be procured from existing RCs (Rate Contracts) and respective demands can be diluted from this Tender at the time of procurement. AMC of the Equipments are always calculated with respect to the Tenders. Hence it will be very complicated for Railtel or incumbent OEMs to reach out the AMC for earlier deployed equipments & the equipment supplied as per part of this tender. In case Railtel retains this clause, we request you to also suggest us the AMC calculation to be considered. Please clarify.	Tender condition are very clear, no change is proposed.

2	1.3.8	34		Bidder shall consider fiber losses with 2 dB additional fiber repair margin per span for Alien Wavelength design.	In Other Railtel tenders, 1db additional margin on alien route is being considered. So, request railtel to change it to 1db margin	Tender condition are very clear, no change is proposed.
3	1.4.1	34		Next Generation (NG) new DWDM Transponder system shall be based on state of art Modern technology which drives high-capacity cost effectively and lowers operational cost. NG DWDM system shall operate at discrete wavelengths in the C-band centered around 193.1 THz frequency as per ITU-T Rec.G.694.1 grid. The proposed DWDM Muxponder (Min 10X10G Clients) shall support 100G or higher line rate. Proposed DWDM system chassis in Next Generation Optical Network shall be support for 800G Capacity for DWDM with End of Life (EoL) not less than 8 years.	In this clause, 8 ch. EOL design is asked but in clause 1.3.8 Page-38, Railtel has asked to submit 40 channel design. Both are contradicting statements. Request railtel to please make it clear.	40 channel design is required if new system is proposad.
4	1.4.6	34		The equipment shall be housed in the standard 19/21" width sub-racks or ETSI standard or 23" racks.	Please confirm the width of subrack for the BOQs to be considered	Tender condition are very clear
5	1.4.15	36		For Linear traffic, Bidder should also propose 4 port client protection modules at each Transponder/Muxponder locations and protection switching shall be triggered based on Loss of Signal at client port.	Please confirm is it need to be proposed on all OADM sites in all SORs? Request Railtel to confirm the use case of the same too.	Tender condition are very clear
6	1.7.1 e	37		For the Transponder Locations RailTel will provide space in Rack up to 8 RU for OADM sites on standard 19" Telecom Rack. In case the offered ILA and OADM require more space in that case bidder shall provide the Rack	Request Railtel to provide space according to other tenders in Railtel - 21RU for OADM and 8RU for ILA sites.	Tender condition are very clear, no change is proposed.
7	4	41		The DWDM System shall provide built-in "plug & play" type of Optical Power Equalization/Pre- amplifiers, if any, to meet individual channel power difference (channel power balancing) and individual channel OSNR requirements etc.	Please eleborate more on the requirement.	Tender condition are very clear, no change is proposed.
8	8.5	42		100G client interface shall be LR4 type with dual rate	Please confirm if it is for all the sites.	Yes for All
9	3.1.1.	43		The envisaged network under present scope is to be managed from Secunderabad NOC as main site. The DR site will be decided by RailTel which will be either Chennai or Mumbai or Kolkata with clients at each of these NOCs and at CNOC.	This will provide undue adavantage to incumbent OEMs and will not be level playing field. So, request railtel to make it mandatory to propose new NMS for all SORs and later on based on L1 bidder, Railtel can take call.	Refer Corrigendum-4

10	3.3	44		<p>Tenderer will supply LCT as per SOR with commercial grade laptops (minimum configuration: 15.6-inch FHD screen, Windows 10 Home Operating System, 7th Generation Intel Core i7 Processor, 4GB Graphic Processor, 1TB HDD with 128GB SSD) to be used as LCTs with the system. The tenderer needs to supply licensed software, required if any, for making them usable as LCTs along with the standard interface cable as part of SOR item no. A 4. Any specific interface requirement or any particular technical specification of the laptops if called for by the Tenderer, to be used as LCTs, may stand brought out. The LCT interface cable for 10 such LCTs will also need to be supplied as part of this SOR item by the Tenderer.</p>	<p>We undersand that 4GB graphic processor is 4GB RAM with graphic processor card. Please confirm if Yes understanding is correct.</p>	Yes
11	3D.4.3	46		<p>The 48V DC supply shall be extended to equipment rack using stranded PVC insulated copper cable as per IRS/TEC specs. Tenderer shall workout on power consumption of the equipment at each location and furnish the details in the bid. The tenderer will supply DC power cable with double current capacity of the required current for dropping 8x100G channels from each direction at client level. The length of DC power/earthing cable shall be assessed and supplied by tenderer for each site as per site requirement. Physical work shall be done by RailTel. Alarm Cable of minimum 20 m length should also be supplied with 20% of equipments to extend external/power supply alarms from charger to the equipment for monitoring the alarms fromNMS.</p>	<p>1.Power cards will be redundant,Power cable also we have to consider total of 60 Mts(2x (Red+Black)=2x(15+15) =60 Metres)per site.Please clarify. 2.Please clarify the gauge of power cable (16 sqmm)</p>	Should support proposed system.
12	3D.5.1	46		<p>.3D.5 EARTHING 3D.5.1 The earthing arrangement shall be provided by RailTel for earthing of optical and digital equipment at the equipment room on a bus bar with value less than one ohm (approx.). The extension of the same to the equipment rack / equipment using earth cable 16 sq mm (min.) copper of ISI make, will be the responsibility of theTenderer.</p>	<p>How many metres of Earthing cable to be considered.Please clarify.</p>	With in the rack
13	4.A.2.4.1	48		<p>4.A.2.4 Warranty Support 4.A.2.4.1 Material for repair during Warranty Period shall be handed over /taken over to contractors engineer at regional NOC's or mutually agreed RailTel PoP location. To enforce fulfillment of support objectives, bidder shall make available services of two qualified engineer at NOC location in each Region (8 in total) to the satisfaction of RailTel for level 2 support during the warranty period. The cost for Technical Engineering support etc., may be quoted as provided for in SOR. The Contractor's Engineer shall be responsible to identify the fault and advise corrective measures and ensure that defective cards are replenished. The cost of cards repairs etc. shall be included in the quoted bid price towards warranty.</p>	<p>1.In SOR -1(B4) , SOR-2(B4) , SOR-3(B4),SOR-4(B4) the no of engineer requirement is 2 Engineer for warranty period of 2 years. Here in Clause 4.A.2.4 is the requirement is mentioned as "bidder shall make available services of twoqualified engineer at NOC location in each Region (8 in total) to the satisfaction of RailTel for level 2 support during the warranty period". Please clarify how many engineers per year per region as part of Warranty NOC Support per SOR.</p>	Refer Corrigendum-4

14	4.A.2.5.1	59		In addition two NMS trained engineer (one for each SOR package) shall be provided at the NOC location in each Region, as part of maintenance supervision obligation. The NOC engineer will ensure that the down time shall not be more than 4 hours for equipment failure. Additional manpower if considered necessary shall be provided by contractor to stabilize the network. A penalty of Rs. 1000/- per hour of down time of network shall be imposed on the contractor for not meeting the down time prescribed. The Contractor's Engineer shall be responsible to identify the fault and advise corrective measures and ensure that defective cards are replenished.	1. Two NMS trained engineer (one for each SOR package)is not covered as part of SOR. Ideally there are 4 SOR packaages.How many NMS trained engineers per SOR packagae to be considered for NOC Location .Please clarify.	Refer Corrigendum-4										
15	4.A.3.4	61		4.A.3.4 As part of level-2 support, two experienced engineer (one for each SOR package) should be available at the NOC location in each Region during general shift (to be available beyond shift hours, when needed, for meeting SLAs) and should work for RailTel's exclusive requirement.	1.NOC engg requirement is mentioned only for Warranty period of 2 years in SOR. For AMC Period 8 Engg per year(2 Per region) for 5 years there is no tab in Schedule of Services.Please clarify. As per tender,AMC to be considered at 3.5% of BOQ value per year.If 8 Engg per year will be part of 3.5% of BOQ Value then AMC will not be worth of 3.5%.Kindly clarify. 2. In all the 4 SORs NOC Engineer requirement is not added.Please clarify 3.Do we have to provide services of 8 Engineer for 5 years for each SOR separately.Pls clarify.	Refer Corrigendum-4 and remaining condition of tender are very clear										
16	4.A.4	61		4.A.4. Delivery, Installation and Commissioning period The materials as per SOR are required to be delivered, install and commission within 120 days from the issue of LOA/Purchase Order. The bidder is required to submit the PERT chart showing the various activities which are required for supply, installation, testing and commissioning of the equipment for each route.	1.Request to share the breakup for Supply Of Equipments & Installation and Commissioning of Equipments. Reason being if there is delay in site readiness (Infra,Fiber etc) Supply payment of next milestone can be cleared ideally even though there is delay in Installation & commissioning. 2.Do we have to submit separate project plans for each SOR.Please clarify.	Tender condition are very clear, no change is proposed.										
17	7.5.2	128		<table><thead><tr><th>Duration of Repair -</th><th>Deduction/Penalties</th></tr></thead><tbody><tr><td>1.More than 30 days and upto 40 days cost of affected part/module (from the date of receipt)</td><td>1.10% of the</td></tr><tr><td>2.More than 40 days and upto 50 days cost of affected part/module (from the date of receipt)</td><td>2.25% of the</td></tr><tr><td>3.More than 50 days and upto 60 days cost of affected part/module (from the date of receipt)</td><td>3.75% of the</td></tr><tr><td>4.More than 60 days (from the date of affected part/module receipt)</td><td>4.Full cost of</td></tr></tbody></table>	Duration of Repair -	Deduction/Penalties	1.More than 30 days and upto 40 days cost of affected part/module (from the date of receipt)	1.10% of the	2.More than 40 days and upto 50 days cost of affected part/module (from the date of receipt)	2.25% of the	3.More than 50 days and upto 60 days cost of affected part/module (from the date of receipt)	3.75% of the	4.More than 60 days (from the date of affected part/module receipt)	4.Full cost of	1.Ideally the penalty % should be AMC cost of the affected part/module. Penalty % is of AMC cost of the affected part/module or Supply cost of the affected part/module.Please clarify	Tender condition are very clear, no change is proposed.
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18	7.5.2	149	<p>Duration of Repair -</p> <p>1. More than 30 days and upto 40 days cost of affected part/module (from the date of receipt)</p> <p>2. More than 40 days and upto 50 days cost of affected part/module (from the date of receipt)</p> <p>3. More than 50 days and upto 60 days cost of affected part/module (from the date of receipt)</p> <p>4. More than 60 days (from the date of receipt)</p> <p>Deduction/Penalties</p> <p>1.10% of the</p> <p>2.25% of the</p> <p>3.75% of the</p> <p>4. Full cost of</p>	<p>1. Ideally the penalty % should be AMC cost of the affected part/module.</p> <p>Penalty % is of AMC cost of the affected part/module or Supply cost of the affected part/module. Please clarify</p> <p>2. 30 days SLA is calendar days or Business Days. Please clarify.</p>	Tender condition are very clear, no change is proposed.
19	Clause 12.3 S	72	<p>d) In the event of Foreign Original Equipment Manufacturer (OEM), Indian Subsidiary or its 100% subsidiary fully authorized for bidding on behalf of OEM is <u>allowed to participate with the experience and financial credential of parent company</u> with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the tenderer.</p>	<p>We understand that any company with specific authorization of OEM should be considered as a bidder and should have its own credentials for qualification criteria and eligibility criteria for bidder mentioned in tender. We suggest to set a separate eligibility criteria for bidder as well as for OEM to clear this point. Pls confirm.</p>	As per Tender condition
20	Clause 4.A.22	82	<p>Earnest Money Deposit (EMD) and Cost of Tender Document</p>	<p>Pls Confirm whether all bidders are exempted for Bid Security/EMD, Tender Fee and additional performance security are exempted for all bidders as per Letter No. RCIL-CO OP(CORR)/1/2021/O/0 ED/Operations/CO/RCIL(E 14736) Dt. 04.06.2021 issued from Railtel. Pls confirm whether this letter of exemption holds good for any bidder who are intreated to participate in this tender.</p> <p>Sub: Indian Railways Standard General Conditions of Contract, July 2020 (Bid Security/Earnest Money Deposit & Additional Performance Security in case of Abnormally Low Bids).</p>	Refer Corrigendum-1
21	Additional Query			<p>Is Reverse auction applicable in this tender since this railtel tender come under contract type "Mixed" (Goods/Service/AMC). Pls confirm.</p>	Not applicable