

**Pre Bid Clarifications dt. 09.06.2016**

Tender No. : E-Tender RailTel/Tender/OT/CO/Projetcs/2015-16/DWDM/329 dt. 20.05.2016

Date of Pre Bid Meeting: 01.06.2016

Venue: RailTel Corporate Office , Gurgaon

<b>A</b>					
<b>M/s ADVA Opticals</b>					
<b>S. No.</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
A1	Clause no 1.2.4.1 of Chapter 3A	<b>Page No.</b>	RailTel's Responsibility	As per the clause and previous tender scope of work, " <b>provision on space in racks for the location of equipment</b> " in the exchanges is the responsibility of RailTel and need not be supplied by the bidder. Kindly confirm our understanding is correct.	Rack is to be supplied by vender however space for keeping the rack will be provided by RailTel. Number of Racks has been defined as New Clause at SN-6 of Corrigendum dt. 09.06.2016
A2	Clause no 1.2.4.2 of Chapter 3A & Clause no 5.5 of Chapter 3E	<b>Page No.</b>	Tenderer's Responsibility	As per the clause "Design and supervision of Installation, Testing and commisioning" is the resposibilty fo tender. Kindly confirm whether the availability of manpower for Installation, testing and commisioning at sites will be responsibility of RailTel or bidder.	Vendor will supervise the activities of installion ,commisioning and testing to be done by RailTel's engineer. All the required equipments/instruments will be provided by Vendor.
A3	Clause no 5.9 of Chapter 3E	<b>Page No.</b>	Trial Run/ Field Trial	kindly confirm whether this time period will be considered as part of PAC or PAC will be issued after the completion of I&C and completion of Trial Run period of 2 months. We request that as this Tial Run period will delay the overall acceptance period of the project, hence this may be delated, if bidder is existing vendor of RailTel and PAC should be considered as first mile stone for I&C activities. Kindly confirm.	Trial Run/ Field Trial will be done after PAC as per Clause.
A4	Clause no 5.12 of Chapter 3E	<b>Page No.</b>	Type Test	Kindly confirm the significane of Type test with respect to this Tender.	Type Test is required to be carried out to prove the design, process of manufacturing and compliance of the equipment.
A5	Clause 2.7.3.4 of Chapter 4B ( Ms/ ADVA has wrongly mentioned this as Chapter 3A, clause 1.2.4.2)	<b>Page No.</b>	25% spare space	Kindly clarify and elaborate this requirement of 25% spare space in the offered solution . Please confirm whether that relates to each and every shelf quoted per node based on the given traffic matrix or 25% of the total amount of shelves offered.	The 25% spare space is meant only for Schedule of Requirement and not for the sample network/ traffic matrix.
A6	Clause 16 of Chapter 4	<b>Page No.</b>	Evaluation of Offer	As a trend and policy adopted by other PSU and Govt agencies for the procurement of goods, the evaluation of successful bidder is derived on the basis of net pay out from the purchaser i.e. by reducing the CENVAT amount from the All inclusive prices rather than all inclusive prices. We request RailTel to incorporate the same for sucessfull bidder evaluation.	Tender clause is clear.
A7	Clause 6 of Chapter 4A & Clause 6 of Chapter 5 (BDS)	<b>Page No.</b>	Performance Bank Guarantee	Kindly confirm the PBG has to be submitted in 15 days or 30 Days from the date of getting APO. Chappter 5 BDS calls for 15 Days. Kindly confirm.	It is 30 Days. Necessary correction has been done at SN-29 of Corrigendum dt. 09.06.2016.
A8	Clause 7.1 of Chapter 4A & and Clause 13.2 of Chapter 4A	<b>Page No.</b>	Taxes and Duties	<p>As per our understanding from previous Teder of RailTel This clause is mentioned as below:</p> <p>"The price quoted shall be firm, fixed and</p> <ul style="list-style-type: none"><li>- in Foriegn Currency, CIP New Delhi Airport (Incoterms 2010) for imported supply</li><li>- in INR for local supply and services.</li></ul> <p>Bidder shall indicate the breakup of all taxes &amp; duties like import, custom, C.V.D., Anti-Dumping duty (if any), ED &amp; sales tax, VAT etc in the quote. The offer should be inclusive of packing, forwarding, freight up to destination, insurance charges.</p> <p>Further deliveries to the offices of RailTel after custom clearance shall be done by the Supplier. Supplier shall undertake custom clearance on behalf of RailTel. Since title of goods/ materials shall be in the name of RailTel, Custom Duty will be paid by RailTel directly to custom authorities."</p> <p><b>You are requested to confirm the clause will be applicable here as well.</b></p>	Tender clause is clear.

A9	Clause 13.1.2 of Chapter 4A	Page No.	Foreign Exchange	Kindly confirm "Foreign Exchange" may be read as "Foreign Currency".	it may be read as "Foreign currency". The same has been corrected at SN-26 in corrigendum dt. 09.06.2016.
A10	Clause 13.2 of Chapter 4A	Page No.	Custom Duty	Kindly clarify this clause in relation to "deduction of custom duty paid by RailTel shall be deducted from next bill of supplier/tenderer". We request the clause may be modified in line with previous tender clause for custom clearance as per our clarification mentioned above related to clause 7.1 or chapter 4	Suitable modification has been issued at SN-27 of corrigendum dt. 09.06.2016.
A11	Clause 17.2 of Chapter 4A	Page No.	Security Agreement	Kindly confirm the agreement will be signed on mutual agreement of the DoT clauses that are applicable to tendered products and reasonably meet RailTel requirement in the specific project. In addition also confirm that The Maximum Liability of tenderer to any Loss/Damages to RailTel including Liquidity Damages, Performance Guarantee and claims under Clause 17.2 (DOT clause) shall be limited to 100% of Value of contract	The Agreement will be done as per mutual agreement as mentioned in the clause and as per prevailing guidelines/instructions of Govt. Of India. Regarding maximum liability, w.r.t. This contract kindly refer clause no 31.1 of Chapter 4A.
A12	Clause 18.2 of Chapter 4A	Page No.	Additional PBG for INR 10 Lakhs	You are requested to kindly relook into this clause. We request to Delete "A standing Performance Bank Guarantee of Rs. 10 lakh for due fulfillment of the rate contract with validity of four months beyond contract period will be submitted by the tenderer within 30 days of issue of LOA for Rate Contract" as it is inconsistent with the 10% PBG requirement.	Standing performance guarantee of Rs. 10Lakh is against rate contract. Tender clause is clear.
A13	Clause 24.4 of Chapter 4A	Page No.	Fall Clause	Kindly confirm our understanding of clause: The tenderer shall undertake to pass on to RailTel the benefit of lower prices offered by the tenderer to any other Central/State/Government Organization or Public Sector Undertaking purchaser in India, for tenders of similar solution/technology/contract value/conditions.	Tender clause is clear.
A14	Clause 28 of Chapter 4A	Page No.	Settlement of Disputes	Kindly confirm: All arbitration proceedings shall be conducted in English. The Arbitral Tribunal shall consist of the sole Arbitrator appointed by mutual agreement of the parties.	Appointment of sole aritrator by mutual agreement and proceedings in "English" is agreed.
A15	Clause 31.1 of Chapter 4A	Page No.	Maximum Liability	Kindly confirm: The Maximum Liability of tenderer to any Loss/Damages to RailTel including Liquidity Damages, Performance Guarantee and claims under or any other penalty related clause of the tender shall be limited to 100% of Value of contract."	Tender clause is clear.
A16	Clause 2.5.1 of Chapter 4A	Page No.	NOC Engineers	Total 2 NOC engineers required at NOC & DR. Pls clarify the number of maintenance engineers required	The tenderer shall keep minimum two maintenance engineers at the locations approved by RailTel, one each at NOC and DR.
A17	Clause 1.2 of Chapter 3A	Page No.	Supervision of I&C	What is the Acceptance criteria for Supervision of installation. Kindly provide the same.	Supervision of installation, Pre- commissioning and site acceptance test is defined at clause no. 5.5, 5.6 and 5.7 of chapter 3E. May kindly refer the clauses
A18	Clause 1.2.6 of Chapter 3A	Page No.	PAC and FAC	Please clarify the scope of work of Supervision of I&C with respect to PAC & FAC.	Kindly refer relevent clauses 5.7.1 and 5.10 in chapter 3E.
A19	Clause 5.2 of Chapter 3E	Page No.	Test and Measurement	The test mentioned against this clause are quite exaustive and detailed. You arer requested to provide us the test procedure and approval processs by the authority for the same.	Tender clause is clear.
A20	Clause 2.1.6, 2.3.1.9 and 2.3.2.6 of Chapter 8A	Page No.		The on-board pre FEC BER monitoring capability enables a in-service and real time monitoring of the DWDM line signal with regards to the signal quality and potential degradations with pro-active alarming functionality prior to major signal degradation and thus represents a similar if not better functionality then a pure PRBS. Please consider pre FEC Ber as opposed to PRBS due to its in-service benefits.	FEC BER monitoring is also applicable. Other functionality will required to be complied.
B	M/s Coriant				
S. No.	Clause No.	Page No.	Clause Discription	Query	RailTel's Remarks/ Clarifications

B1	Note-II & III under schedule of requirement of Chapter 2 And II Bill of material for Typical network	9 and 12	Tenderer to give the detailed Bill of Material including break up costs of common units/cards/module/chassis/Transponder/Muxponder/Patch Cords/ROADM	We understand from the Technical requirements RailTel is not looking for a ROADM based network. Kindly clarify.	ROADM is not explicitly required. Tenderer is required to full fill SOR and Typical network requirement in the offered solution.
B2	III Evaluation of Chapter 2	13	Total cost quoted " BOM for Typical Network" = Y The inter-se position	We understand that formula for evaluation should be $X1+X2+(3Y/2)$ and not $X2+(X1+3Y)/2$ . Moreover in our opinion it should not be divided by factor of two, as this would reduce the weightage of the the typical network. Do we need to also quote services cost for the typical network for evaluation purpose?	The tender clause is clear. Bidder is required to quote only bill of material (BoM) for typical network.
B3	Clause 1.2.3(c) of Chapter 3A	17	Supply of Patch cords of 20.0/10.0/5.0 meter length with one end provided with E2000/APC connectors & other end should be equipment specific (20% of Patch cords may...	Generally LC-LC patchcords are used for fiber connection with clients & not LC-E2000. We request Railtel to clearly specify the requirements for Patchcord types so that project execution happens smoothly.	Suitable modification has been issued at SN-15 of corrigendum dt. 09.06.2016.
B4	Clause 1.2.4.2 of Chapter 3A	18	The tenderer will be responsible for supply & supervision of complete work for this tender including the System design of network and integration with the existing network, wherever required.	We understand that Railtel will do that I&C. Tenderer will only have to provide expert resource to supervise the quality of I&C. Kindly confirm.	Kindly refer clarifications against SN-A2 above.
B5	Clause 2.6.5 of Chapter 3B	23	OFC parameters	We have following requests: The losses mentioned in the tender for the jaipur Ahmedabad link are very high & if we further add 7dB then it would be very difficult to meet link engineering requirements. We request you to reduce this loss from 7dB to 4dB.	Tender clause is clear.
B6	Clause 2.7.2 of Chapter 3B	23	Racks	Do we have to supply racks & DCDB with each of the item required in SoR which means (for Type-A/B/C) we have to supply 604 racks. Also kindly clarify if the racks form part of SoR then do we have supply spare racks & dcdb also?	Suitable Numbers of DCDBs are required to quote for each site. No. of Rack has been defined at SN-6 of corrigendum dt. 09.06.2016. No spares for Racks requires.
B7	Chapter 2.8.3 of Chapter 3B	24	Type of OADM equipments	We kindly request you to define following for the client interfaces: 1. 10G client XFP/SFP+ wavelenght type and reach expected 2. 1G client SFP wavelenght type and reach expected 3. Split of STM-16 & 1GE Client SFP 4. STM-16 client SFP wavelenght type and reach expected	Suitable corrigendum has been issued. Please refer SN-16 and SN-17 of corrigendum dt. 09.06.2016.
B8	Clause 3.1.1 of Chapter 3C	29	NMS & DCN related	We understand that DCN HW like LAN switches/Routers if required & DCN bandwidth will be provided by railTel for bringing all NE's to the central NMS location.	BW for DCN , if required will be provided by RailTel however any DCN HW like LAN switches/Routers if required have to be arranged by Bidder.
B9	Clause 3.2.4 of Chapter 3C	30	Specifications of the Client terminal	We request Railtel to provide the Client HW specifications before bidding to avoid any ambiguity later.	Suitable corrigendum has been issued. Please refer SN-21 of corrigendum dt. 09.06.2016.
B10	Clause 4.3.3 of Chapter 3D	33	DC power cable supply	We request railtel to allow vendors to quote the power cable keeping in mind the current power consumption plus 100% additional expansion load & not restrict with the supply of 25sqmm cable. Also the Power cable length decision may also be left to the bidder with a disclaimer that Railtel will not pay for additional power cable if bidder currently quotes less in the bid.	Suitable corrigendum has been issued. Please refer SN-23 of corrigendum dt. 09.06.2016.
B11	Clause 4.3.3 of Chapter 3D	33	Alarm cable supply	We understand Railtel has existing sites where alarms are already extended. We request that requirement may please be deleted.	Suitable corrigendum has been issued. Please refer SN-23 of corrigendum dt. 09.06.2016.
B12	Clause 4.3.1 of Chapter 3D	33	Power supply	The Power supply range expected is -40 to 60v but in clause 4.8.2 chapter 8 page 114 it is mentioned as -40.5 to -72V. We recommend it to be -40 to -60V.	it is -40V to -60 V. Suitable corrigendum has been issued. Please refer SN-35 of corrigendum dt. 09.06.2016.
B13	Clause 6.2 of Chapter 3F	43	Vendor data requirement & documentation	We request that CD's may please be allowed for documentation & not the paper prints. Kindly allow.	Bidder have to give 12 Nos set of full document in hardcopy. However for each system the documents may be given in Pen Drive.
B14	SOR item A 1(e) and A1(f) of Chapter-2	7	Variable gain optical Amplifier (EDFA) with	We request that Vendors may please be allowed to quote Inline amplifiers separate then amplifiers at OADM, to have proper link engineering incase a higher loss span has to be covered.	As the same ILAs may be converted into type B location in future , the same types of amplifiers are required for OADMs and ILA locations.

B15	Traffic Matrix of chapter -3 B-1	27	10G client interfaces	We understand Railtel requires for 100G Channel-1/2, 7x10G/GbE+1x10G (for STM-4)+1x10G (for STM-16)+1x10G (8x1GE), so in total for Channel -1 ~ 10G required is 10 out of which 3x10G is required on MuxponderChannel -2~ 10G required is 10 out of which 3x10G is required on MuxponderSimilarly for other channels:Channel -3: 8~ 10G required is 10, (without STM-4) out of which 2x10G is required on MuxponderThis is applicable for Terminal & OADM both...with keeping muxponders for both 10G & 100G separate for separate directions. Kindly confirm.	Traffic Matrix is self explanatory.
B16	Clause 12.1.2 of Chapter 4A	54	The Tenderer should have supplied to Telecom Service Providers (Telcos) / PSUs / Govt. a minimum of 95 Nos. of DWDM Terminal/Optical Add Drop Multiplexer (OADM) Equipment	Now a days the DWDM systems are also ROADM/WSS degree based..can we propose that if we have supplied 100 ROADM degrees same may please be counted as 100 terminals?? Kindly confirm	One Equipment irrespective of numbers of degrees will be considered as one count for eligibility. Tender clause is clear and required to be followed.
B17	Clause 8.3 of Chapter 4A	53	It may be noted that the beneficiary of the insurance policy should be RailTel or the policies should be pledged in favour of RailTel. The contractor shall keep the policy/policies current till the equipment are handed over to the purchaser. It may also be noted that in the event of contractor's failure to keep the policy current and alive, renewal of policy will be done by purchaser for which the cost of the premium plus 20% of premium shall be recovered from the contractor.	Please confirm whether we are able to provide for beneficiary of the insurance policy to be RailTel or the policies can be pledged in favour of RailTel. Please also note that in the event of contractor's failure to keep the policy current and alive, renewal of policy will be done by purchaser for which the cost of the premium plus 20% of premium shall be recovered from the contractor.	Tender clause is clear.
B18	Clause 30.1 of Chapter 4A	62	The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Tenderer, terminate this contract in whole or in part.a) If the tenderer fails to deliver any or all of the goods within the time period(s) specified in the contract.b) If the tenderer fails to perform any other obligation(s) under the contract; andc) If the tenderer, in either of the above circumstance(s) does not remedy his failure within a period of 30 days (or such longer period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.	Please confirm that the purchaser will terminate where there is a default under (a) to (c) hence the wordings should be as follows:-30.1 The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Tenderer, terminate this contract in whole or in part under the following circumstances:-a) If the tenderer fails to deliver any or all of the goods within the time period(s) specified in the contract.b) If the tenderer fails to perform any other obligation(s) under the contract; andc) If the tenderer, in either of the above circumstance(s) does not remedy his failure within a period of 30 days (or such longer period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.	Tender clause is clear.
B19	Clause 3.4 of Chapter- 4A and Clause 6/ Annexure-2 of Chapter -7	49 & 99	As part of level-II support, two experienced engineers should be available one each at the NOC site and DR site during general shift (to be available beyond shift hours, when needed, for meeting SLAs) and should work for RailTel's exclusive requirement.Dedicated NOC SupportTo enforce of fulfillment of support objectives, contractor shall provide four qualified engineers at NOC locations approved by RailTel where contractor network exists during the working day for level 2 support over the period of this contract.	As per this clause it mentions that during the AMC period the contractor has to provide 2 NOC engineers for Level II support (one at each NOC). However in the AMC contract (Annexure II) it mentions that 4 NOC engineers need to be provided. Please clarify which one is to be followed. If a vendor already has NOC engineers and field engineers stationed in Railtel network, please clarify they can be re-used for the current tender.	Two Engineers required one at NOC and One at DR site. Suitable corrigendum has been issued. Please refer SN-31 of corrigendum dt. 09.06.2016.
B20	Note I (b) under SOR, Chapter-2	9	It shall be the responsibility of Tenderer to transport the equipment to site for the Installation & Commissioning. Charges for the same should be included in SOR Item no. B 1 (a) to B1 (d) (Design and Supervision of Installation, Testing & Commissioning). Materials not installed / not to be installed need to be shipped to location as decided by RGM/Executive Director of the Region.	As per this clause the transportation to the sites will be done by the contractor. Please clarify that this will be a one time transportation. If Railtel decides to change the site after the transportation is done once, then it will be Railtel's responsibility to move the equipment or it will be chargeable.	Tender clause is clear.

B21	Item B1 of SOR of Chapter-2	8	Design & Supervision of Installation, Testing, Commissioning and Integration of A Type DWDM equipment as supplied against items A 1 (a) above.	The SOR asks for supervision of I&C. however since the products are new to Railtel and Railtel engineers are not trained, it will be challenging for Railtel to do the I&C while the contractor supervises. For Ph1 it is recommended that I&C is done by the contractor himself. Request you to kindly clarify the same. Once Railtel engineers are well trained, then from Ph2, supervision can be brought in place	Scope is clear. Kindly refer clarifications against SN-A2 above.
B22	Clause 5.7.1 of Chapter 3E	39	PROVISIONAL ACCEPTANCE CERTIFICATE (PAC).....	This clause states that the Trial run / Field trial will start after the PAC is issued. However clause 5.9 states that Trial run / Field trial will start after the completion of SAT. Please clarify which one to follow.	Kindly refer RailTel's clarification against SN-A5 above.
B23	Clause 4 of Chapter 4A	49	Delivery Period.....	This clause indicates that Tenderer are required to obtain the road permit. Please clarify that Railtel will be providing the road permits for transportation of goods.	Tender Clause is clear.
B24	Clause 3.1.1 of Chapter 3C	29	i. If the tenderer already has existing NMS with FCAPS management capability from any or all RailTel regional NOCs then tenderer is required to quote the cost for the augmentation, if required, of existing hardware and/or software of the NMS & its existing clients at the RailTel's Regional NOC against SOR item no. A 3 to manage the proposed	The tender allows the re-use of TNMS servers. Please clarify that the LCT's offered also can be re-used	Tender clause is clear.
B25	Clause 12.1.1 of Chapter4A	54	The tenderer should be Original Equipment Manufacturer (OEM) for DWDM Equipment (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be supplied	Due to the globalization and effective production, OEM's have many production facilities across the globe from where supplies can be done. We request Railtel to relax this condition of " OEM has to in the country from where the equipments are planned to be shipped".	The production facility from where the proposed supply must be Original Equipment Manufacturer (OEM) for DWDM Equipment for at least past three years.
<b>C</b>	<b>M/s FiberHome</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
C1		12		For the Typical Network,DWDM equipment needs to be provided for the Jaipur-Ahmedabad link. For sub lambda grooming, OTN equipment shall be offered as per the requirements. Kindly confirm the understanding.	The offered DWDM system should satisfy the traffic matrix requirement as given in the Chapter 3B-1.
C2	Schedule of Supplies under Schedule of Requirement of Chapter-2	7	<b>A. SCHEDULE OF SUPPLIES</b>	BoQ needs to be prepared for the following: 1. Bill of Material for the Schedule of Requirement (X1+X2) as per the quantities mentioned in the "I. SCHEDULE OF REQUIREMENT". 2. Bill of Material for the Typical Network sitewise (Y) as per "II. Bill of Material for Typical Network (site wise)". The inter-se position will be calculated on X2 +(X1 +3Y)/2. Kindly confirm the above mentioned understanding.	The detailed Evaluation method is mentioned under para III ( Evaluation) of chapter-2. May kindly refer.
C3	Clause 2.2 of Chapter-3B	21	<b>PRESENT OPTICAL FIBRE NETWORK</b>  At present, DWDM network has been installed/ under installation in about 25,000 RKMs.	What does this RKm signify. We interpret this as distance for the installed base. Kindly confirm.	RKM stands for Route Kilometres used in Railway route terminology.
C4	Item A1 (e) and A1(f) in Sechedule of Requirement of Chapter-2	7	<b>CHAPTER- 2</b>  <b>I. SCHEDULE OF REQUIREMENT</b>  e) Variable gain optical Amplifier (EDFA) with 11 dBm output power. F) Variable gain optical Amplifier (EDFA) with 13 dBm output power.	In the requirement it is mentioned that amplifiers of 11dbm and 13 dbm output power are required. The output power of the amplifier mentioned in the requirement is too low. Kindly clarify.	The item is defined as per requirement. However if bidder require EDFA with higher output power to cater Typical network, he may quote the amplifier in the BoM of Typical network.
C5	Clause 2.5.3 of Chapter 3B	22	System shall support (1+1) protection for all channels as per the requirement provided at the time of design and implementation.	Kindly confirm whether protection needs to be provided in the design also or the said requirement is for compliance purpose. If need to offer in the design, kindly clarify the protection type.	System shall be capable to provide (1+1) channel protection mechnism if required. However the hardware is to offered as per Schedule of Requirement

C6	Clause 2.6.5 of Chapter 3B	2.6.5, Page-23	<b>OFC PARAMETERS:</b>  The OFC is directly buried without HDPE duct in majority of routes. The attenuation loss and splicing loss of the fibres shall be given at the time of design and installation to the successful tenderer. Moreover, the system margin shall be taken as 6 db per hop for link power budget calculation. The connector losses per hop shall be taken as 1.0 db.	The power budget will take into considerations the following additional margins with G.652 fiber type: • System Margin: 6db per hop • Connector Loss: 1db per hop (Is it included in the system margin or is separate altogether) Any other margin that need to be considered apart from the above mentioned. Kindly clarify.	Tender Clause is clear.
C7	2. Distance and Losses of Chapter 3B-1	26	<b>2. Distance and Losses</b>	The distances will be taken as mentioned in the table. The losses as mentioned in the table also include the system margin and the connector loss (as mentioned above) or additional 7 db margin needs to be taken. Kindly clarify.	The losses are only fibre losses. Additional margin as required in tender document is also to be taken care while designing the network.
C8	Clause 2.2.1 of Chapter-8	108	<b>2.2 Modularity</b>  A single network element (NE) consisting of up to such nos. of shelves (multi-shelf NE) so that maximum traffic (800Gbps) may be dropped at client level.	It is said that the all the client cards should have dropping capacity of 50G and maximum traffic that needs to be dropped is 800G. Kindly confirm the cross-connect capacity for proposing the OTN equipment.	Tender Clause is clear.
C9	3. Traffic Matrix of Chapter- 3B1	27	<b>3. Traffic Matrix</b>	Kindly confirm the traffic matrix as interpreted in the Tab "Traffic Matrix".	Traffic Matrix as provided in Tender document is self explanatory.
C10	Clause 2.4.4 of Chapter 8A	112	System shall support 'Grey' interfaces at the line side.	Tunable CFPs shall be offered at line side in the design considerations. The said requirement is just for compliance purpose. Please confirm.	System shall support 'Grey' interfaces at the line side.
C11	Clause 2.5 and 2.8.1 of Chapter 3B	22 and 24	<b>SYSTEM REQUIREMENT:</b>  It shall be possible to equip the system progressively, in accordance to the num-ber of channels transmitted, in order to allow real "pay as you grow" configura-tions.8 wave-lengths of 100G (coherent modulation) per channel line side capacity on day one	EoL is 8 channel of 100G line side capacity. Kindly confirm.	The system requirement is clearly defined in clause No. 2.8.1, 2.8.3.1, 2.8.3.2 and 2.8.3.3 of Chapter-3B . May kinly refer the clauses.
C12	Clause 4.9 of Chapter 8A	114	<b>4.9 Redundancy &amp; Reliability</b>	All common modules (Cross-Connect, Power Supply etc.) redundancy shall be offered in the design. Kindly confirm.	Any common card whose failure may affect traffic requires redundancy.
C13	Clause 2.5.4.1 of Chapter 3B	22	Modules which increase the system's application range shall be an integral part of the system (i.e. they shall fit into the same shelves, reuse the same basic mod-ules, etc.).	All short haul multi-rate (wherever applicable) shall be proposed. Kindly clarify if there are some distance requirements for the mentioned interfaces in the traffic matrix.	Question is not relevant to the clause referred.
C14	Clause No. 2.7.3.4 of Chapter-3B	24	The supplier shall specify the number of shelves, which are needed to equip the minimum and maximum system configuration. The shelf shall have 25% spare space to accommodate additional interface cards after equipping the tendered re-quirement. Additional shelf shall be provided in case of constraint.	Kindly clarify the additional slots for spare purposes to be considered for all the type of configurations (OTM, OADM, ILA).	25% spare space is mandatory for all types of equipments. And in each chassis if multiple chassis solution is offered.
C15	Clause No. 1.4.2.4 of Chapter-3B	19	The Tenderer shall include in his proposal the detailed Technical information, drawings and functional descriptions of the offered equipment to support the Compliance to MDWDM Technical Specifications as in Chapter-8A of this tender document.	Details shall be provided for PC and NC clauses. Are the details to be provided for FC clauses as well.	Details are required as per tender clause.
<b>D</b>	<b>M/s HFCL</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
D1	Clause 12.3 of Chapter 4A	55	In the event of Foregin Original Equipment Manufacturer (OEM), India Subsidiary or it's 100% subsidiary fully authorized for bidding on behalf of OEM is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the tender.	we request RAILTEL to allow indian System integrators to be bidders in this tender with following conditions. (I) The system integrator should have supplied and deployed DWDM in Railtel Network. (II) The system integrator would bid products of the same OEM that they have deployed in RailTel network. (III) In case SI is unable to meet the minimum number of nodes deployed as mentioned in clause No.12.1.2, then experinace of OEM globally may be considered for eligibility.	Tender Clause is clear.
D2	Clause 12.2.1(a) of Bid Data Sheet of Chapter 5	77	Clause 12.2.1.A) Financial criteria i) [ SDH or IP Based data network or Broadband Network or NGN or WDM or IT} equipment coasting not less than Rs.48 Crore	We requet RAILTEL to allow [SDH or IP Based data network or Broadband Network or NGN or WDM or IT} equipments costing not less than Rs.40Crore	Tender Clause is clear.

<b>E</b>	<b>M/s Infinera</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
E1	Clause 12.3 of Chapter 4A	55	In the event of Foreign Original Equipment Manufacturer (OEM), Indian Subsidiary or it's 100% subsidiary fully authorized for bidding on behalf of OEM is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific authorization addressed to RailTel should be submitted by the tenderer.	We request RAILTEL to allow Indian System integrators to be bidders in this tender with following conditions. (I) The System integrator should have supplied and deployed DWDM in Railtel's network. (II) The System integrator would bid products of the same OEM that they have deployed in Railtel's network. (III) In case SI is unable to meet the minimum number of nodes deployed as mentioned in clause No. 12.1.2 ,then the experience of OEM globally may be considered for eligibility.	Tender Clause is Clear.
E2	Clause 12.2.1(a) of Bid Data Sheet of Chapter 5	77	Finaancial Criteria i) [SDH or IP Based data network or Broadband Network or NGN or WDM or IT} equipment costing not less than Rs.48 Crore.	We request RAILTEL to make following change :- i) [SDH or IP Based data network or Broadband Network or NGN or WDM or IT} equipment costing not less than Rs.40 Crore.	Tender Clause is Clear.
<b>F</b>	<b>M/s Tejas</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
F1	Item A1(a), A1(b) and A1(c) in Schedule of requirement of Chapter-2	7	Type A DWDM Equipment & Type B DWDM Equipment	Should we be considering all Client optics(10G,GE, STM-4 ) to be of Short Range(10 Km) at 1310 nm?	Suitable corrigendum has been issued. Please refer SN-1,2,3, 16 and 17 of corrigendum dt. 09.06.2016.
F2	Item A1(e) in Schedule of requirement of Chapter-2	7	Variable gain Optical Amplifier(EDFA) with 11dBm output Power	As pertaining to Losses provided in Typical Network design, the losses along with maintenace margin ranges from 30dB to 35 dB in 7 spans out of 12 total spans, we recommend to normalize the amplifiers to 13 dBm amplifiers so that all most of the links in the network can be taken care of. 13dBm amplifiers are required for 8 channel design to cater to losses more than 30dBm (Margins included). Hence we recommend to change the requirements to 13dBm Amplifiers.	Suitable corrigendum has been issued. Please refer SN-4 of corrigendum dt. 09.06.2016.
F3	Item A1(f) in Schedule of requirement of Chapter-2	7	Variable gain Optical Amplifier(EDFA) with 13dBm output Power	As pertaining to Losses provided in Typical Network design, the losses along with maintenace margin for 8 spans are more than 30dBm. We recommend SOR Qty for 13dBm amplifiers to be higher that of 11dBm amplifiers as Railtel spans would majorly resemble the typical network span. Please do suggest .	Suitable corrigendum has been issued. Please refer SN-4 of corrigendum dt. 09.06.2016.
F4	Clause 2.8.3.1 of Chapter 3B	24	The channel module offered should be capable to carry 200KM without OEO regeneration(assuming 2 ILA locations in between the OADMs)	Since Link Budget parameters are not being mentioned. Please do suggest if we need to consider fiber loss as 0.3dB per KM along with 0.1 dB splicing loss per 3 KM,7 dB (Maintenance margin + Connector loss )per span, the losses is coming out to 30dB per hop. With 2 ILAs it is 3 hops of 30 db each.	OFC parameters are defined in para 2.6.5. the Actual parameters will be provided at the time of order to the successful bidder.
F5	2. Distance and Losses of Chapter 3B-1	26	Distance & Losses	Please do specify if 7dB (maintenance margin and connector Loss ) needs to be added to Losses given in Table.	Yes it is need to be added.
F6	3. Traffic Matrix of Chapter-3B-1	27	Traffic Matrix	Should we be considering all Client optics(100G,10G,STM64, STM16,STM4,GE to be of Short Range(10 Km) at 1310 nm.	Suitable corrigendum has been issued. Please refer SN-18 of corrigendum dt. 09.06.2016.
F7	Clause 3.2.2 of Chapter 3C	30	NMS Hardware:HDD-1TBx2TB,Hardware RAID 0 & 1	We do understand the 1 TB HDD in RAID is envisaged in Server. Please do suggest if our undertanding is correct.	Suitable corrigendum has been issued. Please refer SN-22 of corrigendum dt. 09.06.2016.
F8	Clause 2.4.1 of Chapter 8A	110	System shall support SFP with following client side services..	The optics envisaged as per Clauses 2.4.1.18-2.4.1.35 are not as per the requirement envisaged in the nework. Hence we do understand that these optics should be deleted. Please do suggest if our understanding is correct.	Suitable corrigendum has been issued. Please refer SN-32 of corrigendum dt. 09.06.2016.
F9	Clause 5.4.6 of Chapter 8A	116	Management system shall support SNMPv3/TL-1 interface	Our understanding is that management system should support SNMPv2c/SNMPv3/TL-1 interface as South Bound Interface. Please do suggest if our understanding is correct.	SNMPv2c is also allowed in addition of SNMPv3/TL-1 interface as South Bound Interface.
F10	Clause 13.2 of Chapter 4A	56	Logistics: Bidder while quoting the prices shall include all expenses like custom duty, anti dumping duty etc. leviable (will indicate the current prevalent rates), custom handling charges, storage, transportation, insurance, etc. in the quoted prices.	Do we need to Transport equipment's from stores to respective sites or the equipments shall be shipped to respecitives directly from Supplier warehouse. Please clarify.	Tender Clause is clear.



F11	Clause 4.3.3 of Chapter 3D	33	Power cable: The 48V DC supply shall be extended to equipment rack using 25 sq mm (min.) stranded PVC insulated copper cable as per IRS/TEC specs. Tenderer shall work out the power consumption of the equipment at each location and furnish the details in the bid. Average requirement of DC power/earthing cable shall be approximately 50 m per site for each colour to be supplied by tenderer. Physical work shall be done by RailTel. Alarm Cable of minimum 20 m length should al-so be supplied with each equipment to extend external/power supply alarms from charger to the equipment for monitoring the alarms from NMS.	1)If the requirement of proposed Equipment is 10/16 sqmm then can we go ahead with required 10/16sqmm instead of 25 sqmm.Kindly confirm 2)The length of power cable varies from site to site.Based on site requirment the length can be considered.if any length used in site is less than the length mentioned in tender supplier is not liable to give Railtel back the balance length of the cable.Kindly confirm 3)Since for redundancy 2 Set of Power cables will considered, should we consider 2x100 mts.Kindly confirm.	Suitable corrigendum has been issued. Please refer SN-23 of corrigendum dt. 09.06.2016.
F12	Chapter 4.5.1 of Chapter 3D	33	Earthing: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 / equip-ment using earth cable 16 sq mm (min.) copper of ISI make , will be the respon-sibility of the Tenderer.	In clause Chap-3-4.3.3 it is mentioned DC power/earthing should be 25 sqmm with 50 mts. Kindly confirm is it 16sqmm/25sqmm with distance.	Clause 4.3.3 is related to extending the -48V supply and not for earthing. Tندر Clause is clear.
F13	Clause 5.5 of Chapter 3E	37	Tools: Tenderer shall bring all installation tools, accessories, special tools, test gears, spare parts etc. at his own cost as required for the successful completion of the job.	Should the accessories like DC MCB, conduits,Sleeves,Lugs....etc should go directly to respective site as per site requiement only.Kindly confirm	Tender Clause is clear
F14	Clause 5.4-B of Chapter3E	36	System Integration Testing: Functional and performance test should be conducted for the complete system concerning and connecting the DWDM equipment and all major equipment con-stituting the system (including the equipment supplied by sub-vendors, as appli-cable) simulating the complete network with appropriate optical attenuators con-necting between DWDM nodes to simulate the optical loss of Optical Fibre Ca-ble. The system shall include the total Network Management System. All the functions of NMS shall be demonstrated in totality (as per require-ments/specifications of this document including management of DWDM). All equipment shall be connected using the same cables (interfaces/components) as will be used during final installation so that the system can be tested in its final configuration. This testing shall be conducted at the manufacturing facility of the main (DWDM) equipment.	Does this include the equipments supplied by other Vendors which are part of the integrated network ?	Tender Clause is clear
F15	Clause 5.9 of Chapter 3E	39	Trail Run: Upon conclusion of the site acceptance testing the Tenderer shall keep the facili-ties commissioned for 2 months for 'TRIAL RUN/FIELD TRIALS'. During this period Tenderer shall provide all specialist Engineers & Technicians including experts at both the NMS's to maintain the total log, incidents, failures & for as-sisting site engineer & for total co-ordination. However, the normal operation and maintenance of the system shall be performed by the personnel of the Pur-chaser trained for the purpose.	The acceptance criteria is not clear. Please clarify.	Tender Clause is clear



F16	Clause 2.5 of Chapter 4A	47	Maintenance Supervision: In addition One NMS trained engineer shall be provided at the NOC location, including DR site, as part of maintenance supervision obligation. The NOC en-gineer will ensure that the down time shall not be more than 4 hours for equip-ment 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 replen-	We suggest that Railtel should ensure the access , spares and site conditions as per the specifications. Kindly conform.	Tender Clause is clear
<b>G</b>	<b>M/s Nokia</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
G1	Clause 2.8.3.3 of Chapter 3B	25	DWDM Type C Equipment ( In Line Amplifier - ILA)	As per our understanding, here requirement is only ILA shelf and without amplifiers. Amplifiers for ILA sites are considered in SOR (e) & (f). Please clarify	Amplifiers are to be quoted seperately under item A1(e) and A1(f) of Schedule of requirement.
G2	Clause 2.5.3 of Chapter 3B	22	System shall support (1+1) protection for all channels as per the requirement provided at the time of design and implementation. The protection switching should be achieved in less than 50 ms.	Though system supprts 1+1 protection, our understanding is currently it has not been asked in the tender. Please clarify	System shall be capable to provide (1+1) channel protection mechnism if required. However the hardware is to offered as per Schedule of Requirement
G3	Clause 2.6.5 of Chapter 3B	23	The OFC is directly buried without HDPE duct in majority of routes. The atten-uation loss and splicing loss of the fibres shall be given at the time of design and installation to the successful tenderer. Moreover, the system margin shall be tak-en as 6 db per hop for link power budget calculation	Generally, the system margin is taken as 3-4 dB. We suggest to change it accordingly.	Tender Clause is clear.
G4	Clause 2.3.2.5 of Chapter 8A	110	100G Transponders and Muxponders shall support plug-gable interfaces for all client side and line side interface.	For line side, support of pluggable at 100G rates is not recommended as it impacts the performance (reach) and has higher cost. Fixed tunable ports (MSA based) should also be allowed for maximum participation.	Tunable ports, fixed on module are also acceptable.
<b>H</b>	<b>M/s Fibcom</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Discription</b>	<b>Query</b>	<b>RailTel's Remarks/ Clarifications</b>
H1	Clause 12.1.1 of Chapter 4A	54	The tenderer should be Original Equipment Manufacturer (OEM) for DWDM Equipment (as indicated in Bid Data Sheet (BDS) of Chapter 5) for at least past three years in the country from where the proposed equipment are planned to be supplied. The OEM should have proven facilities for Engineering, manufacture, assembly, integration and testing of DWDM system and basic facilities with re-spect to space, Engineering, Personnel, Test equipment, Manufacture, Training, Logistic Supports for at least past three years in the country from where the proposed equipment are planned to be supplied. Tenderers shall submit a declaration with the supporting documents(eg. registra-tion, proof of supply of equipment).	DWDM equipment / STM-64 equipment	Tender Clause is clear.
H2	Clause 12.1.2 of Chapter 4A	54	The tenderer should have supplied to telecom Service Providers (Telcos) / PSUs / Govt. a minimum of 95 Nos. of DWDM Terminal/Optical Add Drop Multiplexer (OADM) Equipment in last three years (i.e. current year and three previous financial years ), as indicated in Bid Data Sheet (BDS) Chapter 5. The system shall be in India (or in different two countries outside India other than country of origin. and it should be working satisfactorily and successfully for at least six months.	"DWDM Termi-nal/STM-64 equipment"	Tender Clause is clear.

H3	Clause 12.1.2 of Chapter 5 (BDS)	76	The tenderer should have supplied to Telecom Service Providers (Telcos) / PSUs / Govt. a minimum of 95 Nos. of DWDM Terminal/Optical Add Drop Multiplexer (OADM) Equipment in last three years (i.e. current year and three previous financial years ), as indicated in Bid Data Sheet (BDS) Chapter 5. The system shall be in India (or in different two countries outside India other than country of origin and it should be working satisfactorily and successfully for at least six months.	"DWDM Terminal/STM-64 equipment"	Tender Clause is clear.
H4	Clause 12.1.6 of Chapter 4A	55	The tenderer/OEM should submit the details of supply of DWDM equipment executed as indicated in Bid Data Sheet (BDS) Chapter 5, along with certificates from the original user for whom the project was undertaken certifying the date of award of contract, date of completion, and the present working state of the system which should clearly bring out expertise in the equipment manufacture. The certificates are to be submitted in original or their true copies duly signed by the tenderer.	DWDM equipment / STM-64 equipment	Tender Clause is clear.
H5	Clause 12.2.1 a) (ii)	55	ii) The sum total of the turnover (i.e. revenue from operations) during the last preceding 3 financial years (i.e. current year and three previous financial years) from the date of opening of tender should be a minimum of the value as indicated in Bid Data Sheet (BDS) Chapter 5.	Minimum of 175 crs.	Tender Clause is clear.
<b>I</b>	<b>M/s United Telecom Limited</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Description</b>	<b>Query</b>	
I1	Clause 12.1.2 of Chapter 4A	54	The tenderer should have supplied to Telecom Service Providers (Telcos) / PSUs / Govt. a minimum of 95 Nos. of DWDM Terminal/Optical Add Drop Multiplexer (OADM) Equipment in last three years (i.e. current year and three previous financial years ), as indicated in Bid Data Sheet (BDS) Chapter 5. The system shall be in India (or in different two countries outside India other than country of origin and it should be working satisfactorily and successfully for at least six months.	We request to amend the clause as: The Tenderer should have supplied to Telecom Service Providers (telcos) / PSUs/ Govt. A minimum of 100 Nos. of DWDM Terminal/optical Add Drop Multiplexer (OADM) Equipment in last Six years (i.e. Current year and Five previous financial years), as indicated in Bid Data Sheet (BDS) Chapter 5.	Tender Clause is clear.
I2	Clause 12.1.3 of Chapter 4A	54	The model and version of the equipment being offered in the tender should be proven and should have been working satisfactorily for at least 6 months in India or 1 year outside India. Certificate from the actual user of the equipment about the satisfactory performance shall be enclosed with the tender. Contact Details of the actual user/firm shall also be provided by tenderer. The equipment/materials to be supplied against the present tender shall be covered by the performance guarantee of original manufacturer.	We request to amend the Clause as : Model and version of the equipment being offered in the tender should be proven and should have been working satisfactorily for at least 5 years in India or one year outside India.	Tender Clause is clear.
<b>J</b>	<b>M/s Ciena</b>				
<b>Sr. No</b>	<b>Clause No.</b>	<b>Page No.</b>	<b>Clause Description</b>	<b>Query</b>	
J1	Clause 2.2.5.4, Chapter 8A	109	Electronically Variable Optical Attenuator (EVOA)	We understand that if EVOA is to be provided on need basis and this is not mandatory requirement. Please confirm	EVOA is not mandatory
J2	Clause 2.3.1.7, Chapter 8A	109	10G Muxponders should support fixed DWDM line pluggable and the variants/wavelengths available for fixed line pluggable.	Clause 2.3.1.5 says that 10G Muxponder should support pluggable Line side interfaces but 2.3.1.7 is contradicting. We understand that 10G muxponder should support line Side Pluggable DWDM as well as Grey XFP both. Please confirm.	Tender Clause is clear.
J3	Clause 2.3.1.8, Chapter 8A	109	10G Muxponders shall have G.709 GFEC & G.975.1 I.4 EFEC options. It shall be possible to disable the FEC for low latency applications.	We Understand that requirement is 100G Line side and 10G Muxponder will be connected to 10G Client of 100G so there will not be any FEC requirement on the line side of 10G Muxponder. FEC should be supported on 100G DWDM Lines. Please confirm	Agreed.
J4	Clause 2.3.1.9, Chapter 8A	109	10G Muxponder shall support an integrated PRBS test generator and loop-back capabilities.	PRBS Test is being done on 10G Clients. Since 10G Muxponder will have sub 10G clients so we understand that this requirement is applicable for 10G Clients of 100G Muxponder. Please confirm if our understanding is correct.	Tender Clause is clear.
J5	Clause 2.4.1 of Chapter 8A	110-111	Pluggable Optics	all Multimode clients are available for 850nm not for 1310 or 1550 nm. Please check if 1310 and 1550 nm MM client is typo mistake and it should be SM only?	Multimode is for 850 nm.

J6	Clause 2.4.3 of Chapter 8A	112	System shall support CFP/ with following client side services & specified reach on 100G Transponder	We understand that CFP or CFP2 both are acceptable. Please confirm	CFP and CFP2 both are acceptable.
J7	Clause 2.4.3.2 Chapter 8A	112	2.4.3.2 OTU4 (100m, SR10, 10x10G Parallel)	SR-10 is now not being used in industry. Please confirm if LR4 only is acceptable.	LR4 is acceptable.
J8	Clause 2.3.2.5 Chapter 8A	110	100G Transponders and Muxponders shall support pluggable interfaces for all client side and line side interface.	We understand that Pluggable Client side and fixed tunable 100G Line side is also acceptable as fixed 100 Line side is industry practice for better performance. Please confirm if our understanding is correct.	Tunable 100G line ports, fixed on module are also acceptable.
J9	Clause 2.4 Chapter 8A	110	Pluggable Optics	Please confirm the type of Client requirement in Type-A and Type-B equipment which needs to be considered for SOR	Suitable corrigendum has been issued. Please refer SN-1,2,3, 16 and 17 of corrigendum dt. 09.06.2016.