

Request for Proposal (RFP) for Selection of Agency for Supply, Installation and Commissioning to upgrade backhaul network of GFGNL

Corrigendum I

Request for Proposal (RFP) for Selection of Agency for Supply, Installation and Commissioning to upgrade backhaul network for Gujarat Fibre Grid Network Limited, Dept. of Science & Technology, Government of Gujarat

Reference No: GFGNL/GFG/e-file/263/2023/0122 13/09/2023

23/10/2023



Issued By :
Gujarat Fibre Grid Network Limited (GFGNL)
A Government of Gujarat Company
Block No: 6, 5th Floor, Udyog Bhavan, Sector-11,
Gandhinagar 382010

Pre-Bid query Response/Clarification

Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
1	21	PQ2	The Bidder should have average annual turnover of Rs 120 Cr in the any three consecutive financial year (2019-2020, 2020-21, 2021-22 & 2022-23) solely generated from the business of Telecom - Networking only.	The Bidder should have average annual turnover of Rs 120 Cr in the any three consecutive financial year (2019-2020 2020-21, 2021-22 & 2022-23) solely generated from the business of IT Infrastructure & Telecom, Networking segments.		As per RFP
2	23	TQ1	For each Project worth ≥ 32 Cr: 20 Marks For each set of 2 projects worth ≥ 20 Cr: 20 Marks For each set of 3 projects worth ≥ 16 Cr: 20 Marks	For Two Project worth ≥ 32 Cr: 20 Marks For each set of 2 projects worth ≥ 20 Cr: 20 Marks For each set of 3 projects worth ≥ 16 Cr: 20 Marks	The score asked in TQ is pretty identical as PQ; Request to update pls.	Please check corrigendum I.
3	23	TQ2	<ul style="list-style-type: none"> ≥ 120 Cr to < 200 Cr. - 10 marks ≥ 200 Cr to < 300 Cr - 15 marks ≥ 300 Cr - 20 marks. 	<ul style="list-style-type: none"> ≥ 120 Cr to < 150 Cr - 10 marks. ≥ 151 Cr to < 200 Cr - 15 marks. ≥ 200 Cr - 20 marks. 	Request to update turnover criteria considering the estimated bid value defined.	As per RFP
4	23	TQ2	New Point	Kindly replace the turnover PQ with Bidder's experience to execute state wide / multi location projects.	in PQ, RFP already asked 3 times Turnover WRT Bid value; Requesting to please add bidder's Capability to execute multi location solution.	As per RFP
5	21-23	PQ-TQ	New Point	Please ask for bidder's Certifications Like ISOs, CMMI etc in PQ & TQ.		The Sole Bidder or Lead Bidder, should have valid ISO 9001:2008/ ISO

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						9001:2015 for Quality Management System which should be valid as on bid submission date
6	21	10	Eligibility Criteria: OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order.	It is requested to modify clause as OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission to single customer.		Please check corrigendum I.
7	34	12.10.5	Dismantling of existing equipment, if any, is in the scope of bidder and all dismantled equipment and its accessories to be hand over to GFGNL authorized existing PIA in working condition only.	Please confirm bidder will deinstall and dismantel the exisitng DWDM system after traffic migration. Packing material, packing, transportation and warehousing is in GFGNL scope.		Everything is in bidder's scope except warehouse. GFGNL will intimate warehouse location to successful bidder.
8	34	12.10.8	Bidder has to replan network architecture as per delivery requirement and any inter-movement or rearchitecture or re-deployment will be in scope of bidder. Bidder has to ensure final delivery including traffic reengineering, reconfiguration, movement of hardware, integration with existing nodes, EMS-NMS visibility, GIS update, any activity as require by GFGNL as part of WO/Contract.	Please confirm bidder will deinstall and dismantel the exisitng DWDM system after traffic migration. Packing material, packing, transportation and warehousing is in GFGNL scope. And also please confirm this is DWDM equipment RFP whereas GIS is related to fiber deployment and fiber routes, this application (GIS) isnt part of this RFP		Deinstall, dismantel, packing and transportation of material is in bidder's scope. GFGNL already having GIS application, for further understanding of GIS update bidder/OEM may attend the workshop. Successful bidder needs to provide all support to GIS team regarding integration.
9			All the Active Equipment should be registered in Govt of India Trusted Source Portal	DoT has mandatory registration of active equipments in Trusted Telecom portal of Government of India, for all equipment supplied and installed in		As per RFP

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				ISPs, TSPs. And we understand GFGNL is an ISP, TSP.		
10			implement make in India Policy.Request you to implement Make in India Policy of Government of PMA policy is made mandate by MoUD via notification D.O. No. K-14012/101(17)/2017-SC-III-A dated 27th April 2017.	<p>We understand that the project is under USOF and assisted by Government of India. Government of India has mandatory preferential market access policy (PPP-MII). For all Government of India assisted projects. We request you to implement PPP-MII policy as per below.</p> <p>a. Notification No.8(78)/2010-IPHW dated 10 Feb 2012</p> <p>b. DoT notification No.18-07/2010-IPdated 05 Oct 2012</p> <p>c. Guidelines issued by DeitY vide No.8(78)/2010-IPHW dated 12Jun 2013.</p> <p>d. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013.</p> <p>e. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015.</p> <p>This PMA policy is made mandate by MoUD via notification D.O. No. K-14012/101(17)/2017-SC-III-A dated 27th April 2017. Please do confirm the implementation of the policy.</p> <p>Tender ref. no.- GFGNL/DST/BharatNet – PIA/2018/26 for “Selection of Project Implementing Agency for BharatNet Phase-II project</p>		As per RFP

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				in the State of Gujarat under Gujarat Fibre Grid Network Limited. (Tender copy attached)		

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11	26	12. Scope of Work: 12-d	<p>c) For successful implementation of the project, the Bidder, shall designate one employee for each package as single point of contact (SPOC) for GFGNL throughout this project. Bidder shall provide the contact numbers, email id and other relevant details of the SPOC to GFGNL. The SPOC need to be based at GFGNL NOC during the project implementation phase.</p> <p>d) The Bidder shall also be required to provide one person at GFGNL office-Gandhinagar-for each package for day to day activities like fault rectification, reconfiguration etc. from the date of Go-live to three months or till the contract completion including weekends and public holidays. The deputed personnel must be Engineering Graduate and OEM trained. The selected bidder has to provide 24*7 support, at least one person per packages for 3 shifts need to be manage the integration and operation support, This is indicative requirement, bidder should increase resources as per quantum of work or escalation from GFGNL.</p>	<p>As per clause 1-d we have to depute One SPOC GFGNL NOC Gandhinagar for each package(2 Packages.) for 24x7 support.</p> <p>For 24x7 Support at noc Bidder has to deploy 4 Engineers each for 2 packages.</p> <p>So total 4x2=8 Engineers = 2x1 SPOC =2 engineersto be deployed for 24x7 Support for 2 packages.PLease clarify total how many engineers are to be deployed.</p>		<p>It is solution based turnkey project, we have asked minimum indicative manpower requirement. Bidder have to ensure sufficient deployment of manpower to meet the delivery as per RFP without any additional cost to GFGNL.</p>
12	26	12. Scope of Work: 12.1 Supply and installation: 12.1-b	<p>b) At least one engineer of OEM should remain at installation location for design, installation and configuration of the supplied equipment, during the complete installation period.</p>	<p>Is this requirement additional than the engineer support requirement mentioned in 12-c &d.Please clarify.</p>		<p>It is solution based turnkey project, we have asked minimum indicative manpower requirement. Bidder have to ensure sufficient deployment</p>

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						of manpower to meet the delivery as per RFP without any additional cost to GFGNL.
13	28	12. Scope of Work: 12.3 Comprehensive Onsite Warranty: 12.3-a	It is also required to properly maintain sufficient spare parts (at 5% of the supplied quantity zone wise) for all supplied equipment to meet the required SLA.	Does this spares are to stored at GFGNL Location.pls clarify.		Space arrangement for spares and management of spares is in bidder's scope till O&M handover.
14	28	12. Scope of Work: 12.3 Comprehensive Onsite Warranty: 12.3-a.iii	iii. Replacement of parts/components beyond repair with parts/components of same or better specifications ensuring compatibility. iv. Providing suitable standby for parts/components with same or better specifications till the time the original part/component if repaired or replaced so that daily business is not affected.	1.What is the Repair & Return SLA. 2.As per industry standard practise,One side shipment of card from Site to Bidder repair centre will be taken care by Customer,Post repair Bidder will ship the repaired card to Customer WareHouse/Location as mentioned in RMA form.Please clarify. 3.Please note that card damaged at the PCB track & pad level due to water seepage, insects ingresson, heavy dust ingresson , due to poor site condition will not be repairable and replaceable at free of cost. For Such damaged cards also GFGNL shall procure New card".Please confirm.		1. Please check corrigendum I. 2. All shipment (two way) for repair/return/replace is in bidder's scope during 10 years of Comprehensive warranty. 3. As per RFP, unconditional comprehensive warranty is asked from bidder without any exception.
15	40	15. Implementation Timeline & Penalties: Note-2	2> Maximum penalty cap for all types of penalties as mentioned above is 20% of price bid(A0).	Maxiumum penalty cap i,e 20% of price bid is too high. For warranty & AMC support it would be maximum be of 5% of AMC value per year.Request to reconsider the Maximum Penalty clause.		As per RFP

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16	28	12.3.a	Bidder is required to provide the Comprehensive Onsite upfront replacement & warranty of during entire life cycle of this contract or minimum 10 Years whichever is higher. The warranty shall be counted from the date of go-live. It is also required to properly maintain sufficient spare parts (at 5% of the supplied quantity zone wise) for all supplied equipment to meet the required SLA. The details of the work to be undertaken are as follows:	We assume that 5% qty of the Total supplied Quantities to be considered as spares. Pls clarify.		spare at 5% of the supplied quantity zone wise
17	33	12.8	The bidder needs to provide a comprehensive, on-site and offsite training on deployed solution to GFGNL team as and when asked including but not limited to detail understanding on functionality , troubleshooting and debugging.	Request GFGNL to clarify how many training sessions are required for the GFGNL Team.		Bidder should give minimum 3 training session covering complete knowledge tranfer. However if more training session is requiried to develop competency of o & m agency then bidder must give it without any additional cost to tenderer.
18	23	11.6.b	Strategy for handing over of the newly created transport layer to GFGNL's existing O&M vendor	Request GFGNL to clarify whether any such Clause is levied in the existing Contract between GFGNL & its O&M that the O&M partner has to manage any Transport Device or Transport Layer deployed by GFGNL other than the Existing Product or their Supplied Product. Please clarify		As per RFP

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19	22	10.5	OEM should have supplied minimum 250 numbers OTN/DWDM equipment in last 3 years as on date of bid submission in single order.	We assume that Experience certificate from other customer will satisfy the requirement mentioned under the clause.	We have signed NDA with other customers, which doesn't allow us to share their POs and Delivery challan	OEM Declaration on their letterhead along with work order and delivery challan. OEM can mask sensitive information.
20	23-24	11	Workshop Participation eligibility Criteria	We assume that OEM representative is allowed to attend the Workshop.	As an OEM we want to understand correct requirement in order to design optimum solution.	Yes OEM is allowed in workshop. Please check corrigendum I.
21	23-24	11	Workshop Participation eligibility Criteria	We assume that only DD of workshop fees, NDA and Authority letter for attendees from the OEM will satisfy the requirement for Workshop enrolment		Please check corrigendum I.
22	23-24	11	Workshop Participation eligibility Criteria	We assume that two OEM representative can attend after making required fees of Rs.20000/-		Please check corrigendum I.
23	33	12.8	on-site and offsite training on deployed solution to GFGNL team as and when asked including but not limited to detail understanding on functionality	On-site and Off-site location details requires along with maximum number of participants per batch of training. Need clarification on as and when asked point.		Bidder should give minimum 3 training session covering complete knowledge transfer. However if more training session is required to develop competency of o & m agency then bidder must give it without any additional cost to tenderer. Location and

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						no of participants will be intimating later to successful bidder.
24	27	12.2-B	In case of faults in any of supplied Equipment, the supplied EMS shall raise a ticket in integrated GFGNL's existing NMS. The manpower supplied by bidder shall attend the fault and close the ticket during the period when hand over to existing PIA not completed. After the proper hand over from bidder to existing PIA, the existing PIA will attend the fault and own the ticket until closure of ticket. In case the fault is not rectifiable by deputed team by bidder of PIA, ticket shall be raised to OEM by SPOC Online Portal /any other mode and SPOC shall get the fault rectified or equipment replaced as required, by coordinating with respective OEM.	Please clarify this point		It is self explanatory. Bidder may attend the workshop for understanding.
25	34	12.10.9	Existing equipment is dismantled under this tender may be required to be swapped and redeployed at other location due to operational requirement of GFGNL. The successful bidder shall extend necessary support for same as required during the contract period. The cost of transportation and other logistics, in such case, shall be borne by bidder.	Need more clarity on swapping and redeployment scope , only physical scope is mentioned , how about planning and execution of such activities from NOC . Scope and ownership need clarity		It is Solution based turnkey project, Bidder needs to provide services required for project.

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26	30	12.5, iii	SLA Matrix	the restoration time are excluding engineer travel time?		No
27	31	12.5 vi	Penalty on damaging existing resources	Please clarify what is "existing resources"? Is penalties listed under this clause are in addition to the penalties as per clause 12.5 vi a,b,c?		It is self explanatory in RFP. It is over and above 12.5
28	26	12, d	The selected bidder has to provide 24*7 support, at least one person per packages for 3 shifts need to be manage the integration and operation support, This is indicative requirement, bidder should increase resources as per quantum of work or escalation from GFGNL.	are these resources required in addition to the resources mentioned in clause 12,c at NOC (1 resource per package) and 12,d at Office (1 resource per package)		It is solution based turnkey project, we have asked minimum indicative manpower requirement. Bidder have to ensure sufficient deployment of manpower to meet the delivery as per RFP without any additional cost to GFGNL.
29	27	12.2	Maintenance and Facility Management	is bidder expected to do managed NOC services?		Yes specific to project
30	28	12.3	Comprehensive Onsite Warranty:	Is bidder expected to do managed NOC and field services? Can bidder charge comprehensive warranty?		Please check corrigendum I.
31	28	12.3, a	It is also required to properly maintain sufficient spare parts (at 5% of the supplied quantity zone wise) for all supplied equipment to meet the required SLA	the said quantity spares will be bought by GFGNL or bidder has to maintain it on their own?		Procurement of spares as per RFP is in Bidder scope and the same need to handover to GFGNL/it's appointed agency during O&M handover.
32	32	12.7	Manpower Requirement:	Is bidder expected to do managed NOC and field services?		It is Solution based turnkey project, Bidder needs to provide

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						services required for project.
33	1	.-	Bid to RA enabled: Yes RA Qualification Rule: H1-Highest Priced Bid Elimination	We request that RA should be removed for this Project.	This tender is for turnkey project and RA should be removed as bidders will quote serious and reasonable price at the time of Bidding itself.	As per RFP
34	2	.-	MSE Purchase Preference: No	As MSE Purchase preference is not applicable, we understand following sub clause will not be applicable for this tender -	MSE Purchase Preference is not applicable for this tender.	As per RFP, Clause iv and V is not applicable in this bid.
35	3	2	Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases: i. If number of technically qualified bidders are only 2 or 3. ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N. iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1. iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1	iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1 v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1		As per RFP, Clause iv and V is not applicable in this bid.

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			v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1			
36	2	b	EMD & Performance security should be in favour of Beneficiary, wherever it is applicable. Beneficiary Gandhinagar Gujarat, Science and Technology Department Gujarat, N/A, (Gujarat Fibre Grid Network Limited, Gandhinagar)	We understand Beneficiary would be - Gujarat Fibre Grid Network Limited Please confirm.	Need clarity on Beneficiary as different beneficiary mentioned under two different clauses.	Yes beneficiary is GFGNL.

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37	4	4	<p>Forms of EMD and PBG Bidders can also submit the EMD with Account Payee Demand Draft in favour of Gujarat Fibre Grid Network Limited payable at Gandhinagar</p> <p>Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.</p>			<p>Bidders are required to upload the Scanned copy of Bank Guarantee and Demand Draft for EMD and Tender Fee respectively (as mentioned in this RFP) at online bidding portal. Further, original Bank Guarantee and Demand Draft for EMD must be submitted in a sealed envelope mentioning "EMD" before due Date and Time for Submission of Bids as mentioned in RFP</p>
38	9	6(b)(vi)	<p>Bidders are required to upload the Scanned copy of Bank Guarantee and Demand Draft for EMD and Tender Fee respectively (as mentioned in this RFP) at online bidding portal. Further, original Bank Guarantee and Demand Draft for EMD must be submitted in a sealed envelope mentioning "EMD" before due Date and Time for Submission of Bids as mentioned in RFP</p>	<p>We understand, that bidder is allowed to submit the original Bank Guarantee and other offline documents within 5 days from bid end date. Please confirm.</p>	<p>There is a contradiction on due date for submission of original Bank Guarantee / Offline documents.</p>	<p>Bidders are required to upload the Scanned copy of Bank Guarantee and Demand Draft for EMD and Tender Fee respectively (as mentioned in this RFP) at online bidding portal. Further, original Bank Guarantee and Demand Draft for EMD must be submitted in a sealed envelope</p>

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						mentioning "EMD" before due Date and Time for Submission of Bids as mentioned in RFP
39	3	1(b)	The Bid Security and non-refundable bid processing fees in a separate sealed envelope super scribed with the bid document number to be submitted to GFGNL office before the last date & time of submission of bids as mentioned in the RFP document.	We understand, bidder need not to pay any bid processing fee. Please confirm.	There is no clause in the RFP which ask bidder to pay bid processing fee.	Need not to pay Bid processing fee
40	7	4	EMD (bid Security / Security deposit) Rs. 80,00,000 /- (Rs. Eighty Lakhs Only) Demand Draft in favor of "Gujarat Fibre Grid Network Limited" drawn on any scheduled bank and payable at Ahmedabad/Gandhinagar OR EMD in the form of bank guarantee with validity of 180 days from the last date of bid submission in favor of "Gujarat Fibre Grid Network Limited" "from - All Nationalized banks including the Public sector banks - IDBI Ltd. - Private sector banks - AXIS Bank, IICI Bank and HDFC Bank	Referring to Disclaimer mentioned at the end of GeM Bid Document, and clause 4(xiii)(m)(v)_____ of GTC, we understand that the Bidder having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s) are exempted to pay the EMD. Please confirm	As per disclaimer and GTC of GeM Bid Document, Bidder having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s) are exempted to pay the EMD	EMD has to be submitted.

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41	6	.-	<p>Disclaimer</p> <p>The additional terms and conditions have been incorporated by.....</p> <p>Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-</p> <p>1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.</p> <p>2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.</p>			EMD has to be submitted.
42	9	6(b)(ii)	The Bidders can login to GeM portal in secure mode only by signing through the Digital Signature..	As there are more options available for bidder to login to GeM portal such as Login id & PW, OTP etc., we understand, bidder is allowed to login and submit the bid through any available option. Please confirm.	As there are more options available for bidder to login to GeM portal, bidder should be allowed to login and submit the bid through any available option.	As per RFP
43	11	.-	<p>Part-IV: Priced BOQ:</p> <p>b. The detailed priced bill of material as submitted in the technical bid shall be submitted by the bidder physically in sealed envelope along with Part-I documents (EMD) at the office of Chief Finance Officer, (CFO), Gujarat Fiber Grid Network Limited (GFGNL), Block No: 6, 5th Floor, Udyog Bhavan,</p>	<p>First of all the Priced Bill of Material will not be submitted in Technical Bid. It will be part of Price Bid. In e-tender through GeM portal, seeking physical copy of detailed Price BOM seems stringent.</p> <p>Further, as RA is applicable in this Bid, the BOM submitted during Bidding stage will become irrelevant post RA due to change in price. Hence, we</p>	<p>Contradiction in clause as one of RFP clause state that - Technical Bid containing financial details shall be rejected. Further, as all the documents are being asked in</p>	<p>Expectation is that bidder needs to submit detail bill of material with price in price bid and without price in technical bid.</p>

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			Sector-11, Gandhinagar: 382010 on or before the online bid submission	recommend that this condition should be removed.	electronic form only through GeM portal, BOM submitted through GeM should be sufficient.	
44	16	9.15.1(g)	Bids without Power of Attorney and any other document consisting of adequate proof of the ability of the authorized signatory to bind the Bidder.	As format of Power of Attorney specific to this tender is not available in the RFP, we understand bidder is allowed to submit POA in their own format.	Format of POA not provided	Plese check corrigendum I.
45	19	9.22.1	The Goods supplied & installed under this Contract shall be fully insured by the selected bidder, against any loss or damage at the Tenderer's designated location for entire contract period. The insurance taken should cover risks such as flood, theft, fire, earthquake, and cyclone (for wind speeds up to 120 kmph). <i>The bidder shall submit to the GFGNL, certificate of insurance issued by the insurance company, indicating that such insurances have been taken against entire solution & certificate has to be submitted by bidder to GFGNL.</i>	We understand this clause is applicable post award of contract and bidder need not to submit any such certificate of insurance along with the Bid. Please confirm.	Applicablility of this clause is only after award of contract.	Bidder needs to submit certificate post award, however need to consider cost while bidding.

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46	21	9.24.2	The asset(s) so created shall be fully owned by the Government of Gujarat and held on its behalf by GFGNL. Asset(s) integrated during this project, selected bidder has to take AMC support from the manufacturers atleast for 10 Years after completing the AT and HoTo process of this project and can be renewed on the name of GFGNL in future.	To the best of our understanding AMC is not in the scope of Bidder. Hence, this clause should be deleted.	No specific AMC requirement are mentioned in the RFP.	Please check corrigendum I.
47	21	9.24.3	Bidder shall responsible to provide documents for O&M, AMC, Warranty of supplied hardware and software under this RFP. It should be visible on OEM/SI Website. Submit the inventory report with detail information	To the best of our understanding AMC is not in the scope of Bidder. Further, as usually warranty requirements vary project to project, it would be difficult for OEM to upload such declarations on their website. Hence, this clause should be deleted.	No specific AMC requirement are mentioned in the RFP.	Please check corrigendum I.
48	21	10	<p>Eligibility Criteria The Bidder should have average annual turnover of Rs 120 Cr in the any three consecutive financial year (2019-2020, 2020-21, 2021-22 & 2022-23) solely generated from the business of Telecom - Networking only.</p> <p>Supporting Documents to be furnished Certificate from the Statutory auditor/ CA clearly specifying the annual turnover for the specified years along with audited balance sheet of the bidding entity.</p>	We understand certificate issued by Statutory auditor/ CA clearly specifying the annual turnover for the specified years of similar requirement issued for GFGNL's earlier tender will also serve the purpose. Please confirm.	General request.	If it meets the stated eligibility criteria then it is ok

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49	23	11	<p><u>Criteria</u> Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 32 Cr / 2 Project of similar Nature having minimum cost of 20 Cr/ Three Project of similar Nature having minimum cost of 16 Cr. , having components like OTN/DWDM/MPLS Router/ (with minimum 40 % of these active components) in last five years as on date of bid submission. As per PQ criteria number 4. For each Project worth \geq 32 Cr: 20 Marks For each set of 2 projects worth \geq20 Cr: 20 Marks For each set of 3 projects worth \geq16 Cr: 20 Marks</p> <p>Max. Marks: 20</p>	<p>It seems there is some typographical error in the scoring here in this clause. For all requirement i.e. whether 3 projects or one project, same score (20 marks) has been mentioned.</p> <p>Request you to please review and amend the clause for project wise requirement.</p>	<p>For better clarity in Technical evaluation criteria</p>	<p>Please check corrigendum I.</p>

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50	7	3.5	The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.	<p>As per the RFP Requirement, network should be capable and deliver 10 Gbps in future with addition of minimum hardware like additional Cards, SFP, patch cords, other consumable active and passive item based on upgrade requirement without supply new Box/Chasse.</p> <p>As per our understanding, in detailed Price BOM, bidder need to give Price in two different sections - one for tender requirement and evaluation purpose and another section for additional future requirement for upgradation purpose. Item and its commercials/ rates provided in second section will not be considered for evaluation of L1 bidder.</p> <p>Please confirm if our understanding is correct.</p>	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Yes, L1 will be based on Current requirement only. The solution should be readily upgradable to 10Gbps from day 1.
51	21	10, 4	`	<p>Please note that most of the large tunkey telecom projects consists of components such as active, passive, services and O&M etc. Further, the % value of active components in such large project are ranging from 5 % to 15% of total value of project. Hence, applying this limitation (40% of project value) will restrict various capable bidders from participating in this tender.</p> <p>Hence the statement - 'Not less than</p>	Please note that most of the large tunkey telecom projects consists of components such as active, passive, services and O&M etc. Further, the % value of active components in such large project are ranging from	Please check corrigendum I.

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				40% of the project value consist of these active components' should be deleted from this clause.	5 % to 15% of total value of project. Hence, applying this limitation (40% of project value) will restrict various capable bidders from participating in this tender. The clarification sought by us will help more participation and competitive bidding.	
52	21	10, 4	Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 32 crores/ Two Project having minimum 20 Cr/ Three Project having minimum 16 Cr having components like OTN/DWDM/MPLS Router (Not less than 40% of the project value consist of these active components) in last five years as on date of bid submission. Work Order should have been issued in last five years as on date of bid submission. For completed projects : Go-live certificate should be provided.	We request to make following changes in the documents requirements - For completed projects : Go-live certificate / Project completion certificate should be provided. For ongoing projects : Phase completion certificate from Client certificate clearly mentioning worth of completed work for active components should be provided. OR Self undertaking, copy of Work Order, copy of Inspection Certificate (IC) issued by third party TPA (Govt. entity like BSNL QA etc.) along with CA	Most of the customers (including TSP) avoid to issue phase completion certificate against ongoing projects and it is difficult to arrange phase completion certificate. The clarification sought by us will help more participation and competitive bidding.	Please check corrigendum I.

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			For ongoing projects : Client certificate should be provided clearly mentioning worth of completed work for active components.	certificate certifying the value of active components should be provided.		
53	21	10	<p>Eligibility Criteria: OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order.</p> <p>Supporting Documents to be furnished: Copies of work order, Delivery challan</p>	<p>We recommend minor modification in this requirement which is as follows -</p> <p>Eligibility Criteria: OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order.</p> <p>Supporting Documents to be furnished: Copies of work order / Copy of Satisfactory supply Certificate</p>	Supporting documents like copy of Purchase order and satisfactory completion certificate from user is sufficient proof for claiming such experience	Order may be considered in phase manner for single customer. OEM Declaration on their letterhead along with work order and delivery challan. OEM can mask sensitive information.

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54	28	12.3.a	Bidder is required to provide the Comprehensive Onsite upfront replacement & warranty of during entire life cycle of this contract or minimum 10 Years whichever is higher. The warranty shall be counted from the date of go-live. It is also required to properly maintain sufficient spare parts (at 5% of the supplied quantity zone wise) for all supplied equipment to meet the required SLA. The details of the work to be undertaken are as follows:	We understand that 5% Spares of total installed inventory to be provided. Please confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	at 5% of the supplied quantity zone wise
55	28	12.2 d	In case of faults in any of supplied Equipment, the supplied EMS shall raise a ticket in integrated GFGNL's existing NMS. The manpower supplied by bidder shall attend the fault and close the ticket during the period when hand over to existing PIA not completed. After the proper hand over from bidder to existing PIA, the existing PIA will attend the fault and own the ticket until closure of ticket. In case the fault is not rectifiable by deputed team by bidder of PIA, ticket shall be raised to OEM by SPOC Online Portal /any other mode and SPOC shall get the fault rectified or equipment replaced as required, by coordinating with respective OEM.	As existing Team have to do L1 Activity on ground during O&M, so we assume that SLA will be start once ticket transfer to New SIA is done. Please confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
56	28	12.3.3	Replacement of parts/components beyond repair with parts/components of same or better specifications ensuring compatibility.	<p>After this upgrade whether OLD OEM's liability will be over or it is still there as per Master RFP's warranty and AMC Terms.</p> <p>Please clarify.</p> <p>Please sahre Trems in case there is any change.</p>	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Please check corrigendum I.
57	32	12.7	Selected bidder shall deploy following minimum manpower resources at GFGNL NOC with no other responsibility to meet out the SLA.	Clarity required to provide manpower in NOC, OEM resource and O&M activity on Ground.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project, we have asked minimum indicative manpower requirement. Bidder have to ensure sufficient deployment of manpower to meet the delivery as per RFP without any additional cost to GFGNL.
58	34	12.10.5	Dismantling of existing equipment, if any, is in the scope of bidder and all dismantled equipment and its accessories to be hand over to GFGNL authorized existing PIA in working condition only.	<p>We understand that the bidder will deinstall and dismantel the exisitng DWDM system after traffic migration. And Packing material, packing, transportation and warehousing is in GFGNL scope.</p> <p>Please confirm if our understanding is correct.</p>	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Everything is in bidder's scope except warehouse. GFGNL will intimate warehouse location to successful bidder.

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
59	34	12.10.8	Bidder has to replan network architecture as per delivery requirement and any inter-movement or rearchitecture or re-deployment will be in scope of bidder. Bidder has to ensure final delivery including traffic reengineering, reconfiguration, movement of hardware, integration with existing nodes, EMS-NMS visibility, GIS update, any activity as require by GFGNL as part of WO/Contract.	<p>1) We understand that the bidder will deinstall and dismantel the existng DWDM system after traffic migration. And Packing material, packing, transportation and warehousing is in GFGNL scope. Please confirm.</p> <p>2) As this RFP is for DWDM equipments only, GIS is not part of this RFP. Please confirm.</p>	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	<p>1. Everything is in bidder's scope except warehouse for dismantled equipment. GFGNL will intimate warehouse location to successful bidder.</p> <p>2. GFGNL already having GIS application, for further understanding of GIS update bidder/OEM may attend the workshop. Successful bidder needs to provide all support to GIS team regarding integration.</p>
60	42	19	Terms of payment	More clarity is required on OPEX Part please.	There is no clarity in the tender regarding OPEX part of the Project/tender.	As per RFP
61	33	12.7 Manpower Requirement	The Technical Resource shall be deployed within 30 days from the date of issue of work order. Manpower should be available for 7 days a (full) week and will be allowed two off per month. NOC manpower should be 24*7 across 365 days per each package.	For manned hrs including week offs needs to be consider as per govt norms.		As per RFP
62	52	7 Annexure VII:	Deployment of resource /Man month/50	Please clarify man month - 50 calculation		Man-Month means one resource working for 1 calander month

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
		Financial Bid Format				
63	39	15/3	15. Implementation Timeline & Penalties: Installation and configuration of supplied equipment to complete backhaul upgrade as per scope of work of this RFP /Installation Report & UAT, NMS integration of EMS and AT of inventory, live status, SLA, PM reports in NMS. /T+120 Days	Timelines should be T+180 consider material mobilization to site and I&C .		As per RFP
64	21	10	Eligibility Criteria: OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order.	It is requested to modify clause as OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission to single customer.		Order may be considered in phase manner for single customer
65	34	12.10.5	Dismantling of existing equipment, if any, is in the scope of bidder and all dismantled equipment and its accessories to be hand over to GFGNL authorized existing PIA in working condition only.	We understood all dismantled equipments will be kept at nearest O&M PIA warehouse only. Please clarify		GFGNL will intimate the warehouse location to successful bidder later.
66	21	Eligibility Criteria, point no. 2	The Bidder should have average annual turnover of Rs 120 Cr in the any three consecutive financial year (2019-2020, 2020-21, 2021-22 & 2022-23) solely generated from the business of Telecom - Networking only.	The Bidder should have average annual turnover of Rs 120 Cr in the any three consecutive financial year (2019-2020, 2020-21, 2021-22 & 2022-23) solely generated from the ICT (IT/ITES/Networking/Telecom)business only.	This allows more bidders to participate and make the bid competitive	As per RFP

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67	21	Eligibility Criteria, point no. 4	<p>"Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 32 crores/ Two Project having minimum 20 Cr/ Three Project having minimum 16 Cr having components like OTN/DWDM/MPLS Router (Not less than 40% of the project value consist of these active components) in last five years as on date of bid submission.</p> <p>Work Order should have been issued in last five years as on date of bid submission. For completed projects : Go-live certificate should be provided. For ongoing projects : Client certificate should be provided clearly mentioning worth of completed work for active components."</p>	<p>"Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 32 crores/ Two Project having minimum 20 Cr/ Three Project having minimum 16 Cr having components like Network Switches/Routers/OTN/DWDM/MPLS Router (Not less than 40% of the project value consist of these active components) in last five years as on date of bid submission.</p> <p>Work Order should have been issued in last five years as on date of bid submission. For completed projects : Go-live certificate should be provided. For ongoing projects : Client certificate/Self undertaking (CA Certificate) should be provided clearly mentioning worth of completed work for active components."</p>	This allows more bidders to participate and make the bid competitive	Please check corrigendum I.
68	21	10. Eligibility Criteria -5	OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order.	<p>1. is PO from Outside India customer acceptable?</p> <p>2. These 250 nos can be from single purchase Order or Multiple POs from same customers, pls clarify?</p> <p>3. Is multiple Orders from Multiple customer acceptable within last 3 years, pls clarify?</p>		<p>1. Yes</p> <p>2. Multip PO From Same customer is acceptable in give time frame.</p> <p>3. As per point 2</p>

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69		10. Eligibility Criteria -9	The OEM should have total annual turnover of Rs 120 Cr in the last five financial year (2018-19,2019-20, 2020-21,2021-22 & 2022-23) solely generated from the business of DWDM/OTN transmission equipments only.	If a company is 100% subsidiary of a parent company, then the turnover of parent company should be considered.		No
70	7	3.5	Bidder has to propose new solution of network elements to ensure proposed bandwidth delivery and may use existing Network components for cost optimization with reshuffling plan (if technically feasible) in such a way that downtime should be in line with SLA defined in RFP.	It is requested to provide the detail of DWDM system, bidder needs to provide new LO DWDM system (MUXPONDER base) and also please provide the quantity of new DWDM system along with no. of line side ports with line capacity required, and also please provide the detail of no. of clients with type of traffic requirements.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
71	7	3.5	Bidder has to propose new solution of network elements to ensure proposed bandwidth delivery and may use existing Network components for cost optimization with reshuffling plan (if technically feasible) in such a way that downtime should be in line with SLA defined in RFP. The bidder should make sure to Propose New network Solution with consideration to provide dedicated 2 Gbps bandwidth at each OLT from SDC. Existing network is built to provide dedicated 250 Mbps bandwidth at each OLT from SDC.	Please clarify, bidder needs to provide new DWDM system to cater traffic for data centres to access network i.e. OLTs/Routers. Dropping bandwidth from DWDM layer to access layer (OLTs/Routers/Switches) shall be minimum 10gbps.		DWDM node/topology upgradation should be in manner to provide 2Gbps bandwidth requirement at each OLT end and ensure solution which is scalable up to 10Gbps at each OLT end with minimum hardware/software upgarde. Existing DWDM nodes/capacity may be used as a part of new solution.

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72	7	3.5	The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.	Please provide the detail how many client ports are required in the DWDM system to serve the 10Gbps bandwidth in day 1, and also please provide detail of line rate require from day 1.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
73	23	11	Technical Evaluation Criteria: Deployment and capacity augmentation plan This shall consist of initial Bill of material proposed to provide 2 Gbps dedicated Bandwidth at all OLT level having scalability to 10 Gbps without changing baseline infrastructure	Please clarify, how many 10Gbps client ports are required for dropping from day 1 and also please clarify the line side rate of DWDM system in day 1.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
74	26	12.b	The network shall be deployed over existing fiber network of GFGNL and to be designed to cater to all the running services along with the new services which are part of this document. Bidder must ensure for minimum down time to migrate the existing services to upgraded transport layer and make sure all the services run smoothly. (Bidder to use maximum of 2 fiber cores between 2 transport devices. GFGNL will provide additional fiber pairs for OLT ring splitting as per the requirement of SoW of this RFP.)	it is requested to provide the no. of sites where DWDM network needs to be deployed along with network topology or please provide the count of the DWDM equipment with capacity requirement.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
75	26	12.j	Proposed Transport architecture should be uniform and standard as per planned traffic Matrix in both Package- A and B	It is requested to GFGNL to please provide traffic matrix.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
76	27	12.1.C	The bidder shall be required to visit each site and submit floor and cabling diagram for approval of GFGNL if required additionally other than existing set up. Supply, Installation, and commissioning of the transport devices including patch-cord, MCB, power consumable and other miscellaneous accessories at various locations as per solution. Bidder to supply and install 21U/42U rack if required at 10% of total locations. and same is to be quoted as part of priced BOQ.	Please confirm bidder needs to provide DCDB to cater its equipment, GFGNL will provide the power supply from plant to newly installed MCBs box (DCDB). And also we understand survey shall be done after the PO award, for standardization please provide the detail length if DC power cable including earthing cable required for individual sites.		As per RFP-Refer Clause No-13-A-10; Bidder may attend workshop to derive the requirements
77	27	12.1.d	The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability.	Please clarify, supplied DWDM equipment shall be DC power supplied (-48 volt)		DC Power is available at GFGNL Shelter locations; Bidder may attend the workshop to derive requirements
78	27	12.2	Maintenance and Facility Management: The Successful bidder shall be responsible for configuration/re-configuration of all the equipment/services as and when required.	Please clarify, Successful bidder shall be responsible for configuration/re-configuration of supplied equipments.		Applicable for all network equipments as per proposed new solution integration

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79	34	12.10.6	Separate terminal panel shall be supplied by the bidder which will serve as distribution frame where equipment side Ethernet cables & patching side Ethernet cables can be terminated. The bidder shall supply the equipment to terminate panel Ethernet cables.	It is requested please define how many terminal Panel with no. of ports (FDMS: Fibe rdistribution management system) shall be supplied.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
80	34	12.10.7	The successful bidder should design the DCN network for the network devices and provide DCN devices e.g. routers and switches if required. GFGNL will confirm the design and provide necessary IP address and bandwidth in existing network set up. The external DCN plan for network management is to be finalized by the bidder and duly approved by GFGNL before the implementation of the same.	Please confirm, GFGNL provide the bandwidth for external DCN at the local sites where as bidder shall provide the require router/switch at the central (NMS) location only. Whereas in Band DCN shall be taken by the DWDM equipment as a OSC signal.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
81	34	12.10.10	The Successful Bidder shall ensure the integration/interworking of equipment being supplied under this project with the all-existing Network/Equipment of the GFGNL. Along with EMS-NMS-GIS mapping & software integration.	Please confirm only supplied equipments shall be integrated on the eMS, whereas intergration with other NMS customer will provide OSS, in that case bidder shall provide the APIs required for the OSS integration.		Integration with NMS wrt EMS end is in bidder's scope. Bidder may attend workshop to derive the requirements as per RFP, Bidder need to understand API integration with existing NMS during workshop

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82	35	13	<p>Functional and Technical Specifications: The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.</p>	<p>It is requested to provide complete detail of:</p> <ol style="list-style-type: none"> 1. No. of DWDM sites with technology L0 MUXPONDERS, with port requirement at client and line side. 2. No. of amplifier sites to cater traffic from DC to respective drop sites. 3. For future use how many channels along with no. of fiber directions are required. 4. Traffic Matrix detail in between Source and destination. 		<p>It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements</p>
83	35	3	<p>Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in Package- B) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual homed ring as mentioned in above network architecture subject to GFGNL competent authority approval.</p>	<p>Please provide the technical detail w.r.t. transport switch, is it L2 or L3 switch or it is related to the DWDM layer.</p>		<p>It is related to the DWDM layer and transport switch (L2-Smart). Bidder may require to attend workshop</p>
84	35	5	<p>Bidder to upgrade existing annexure route (TC-DC route) in Package-B to 100 G (upgradable to 400 G in future) and use this upgraded annexure path as third path for redundancy in Package-B.</p>	<p>Please provide the complete detail of Package A and Package B, required no. of DWDM system. Also please clarify complete DWDM system shall be newly supplied and as referred existing DWDM system shall be dismantle.</p>		<p>It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements. Also, Pls refer Clause No. - 12.10.5</p>

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85	35	9	The solution should be built to provide the maximum protection for the services by using of any of the available fiber paths to protect the traffic Selected Bidder has to ensure for minimum 50% selected sites (as GFGNL is in process of additional ofc route works with purpose of ring shortning) planned equipment must support minimum 2 CNO and capable to support in future 3CNO, 4CNO depending on number of fiber route and with <50ms switch over time. GFGNL will share the name of the sites once bidder selected for the contract.	Please clarify, GFGNL is looking for ROADM base DWDM, LO GMPLS network that supports multiple fiber cut, in that case please provide no. of ROADM cards with no. of directions are required. In that case 1st fiber cut can achieve <50ms but in case of lambda switching in multiple fiber cut traffic will take more than >50 ms.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
86		1.1 General point 3	Technical Specifications:The line interfaces should support the tuning of the carrier frequency or pluggable optical module which can be tuned to any of on all the working channels defined in ITU-T Recommendation.	Please provide detail of line side port capacity requirement along with total no. of ports required.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
87		1.1 General point 5	The proposed solution should support the implementation of GMPLS (RFC 3945) and ASON (ITU-T G.8080).	Please clarify, GFGNL is looking for LO GMPLS network that supports LO ASON for multiple fiber cut.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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88		1.1 General point 6	Selected bidder will have to supply EMS (Element Management System) for any new OTN, DWDM or any other transport device other than existing OEM Transport Device. Selected bidder will also have to supply EMS (Element Management System) for any new functionality in existing OEM. Further, selected bidder & their OEM partners will have to facilitate integration of all these EMSs with GFGNL's existing NMS (Network Management System) through API or any other suitable mechanism as per the requirement of GFGNL's NMS application and up to the satisfaction of GFGNL.	Please confirm about the no. of eMS system shall be supplied to manage DWDM system, For an example 2 eMS/NMS in HA mode. All field devices will be connected with eMS/NMS. Newly installed NMS shall provide API's to connect with GFGNL scope OSS.		EMS is not required in HA mode. Integration with NMS wrt EMS end is in bidder's scope.
89		1.1 General point 7	Span Budget - The system shall be able to support mixed operation of 10G/100G/200G/400G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s higher rate channels.	Please confirm about the supply of MUX/DEMUX, bidder needs to supply MUX/DEMUX please provide capacity details and also if there is expectation with ASON in that case existing DWDM system will not work with new DWDM system.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
90		1.1 General point 11	For the 100G OTN switch function, traffic should be groomed either by cross connection cards/cross connect on OTN card, and backplane, should not by bridge/auxiliary cards or external pigtails.	Please clarify the expectation w.r.t. OTN switch, this is referring for MUXPONDER base solution or DXC base solution.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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91		1.1 General point 15	The network shall be designed taking the following parameters into account. (i) Section/span loss – 32dB (ii) Span Margin : 5 dB	Please confirm 32 db. section/span loss is included with the span margin 5 db.		Span Margin is not inclusive of Section/Span loss
92		1.1 General point 16	Backplane capacity must be minimum of 1 Tbps	Please confirm DWDM equipment system backplane capacity is 1 tbps.		Yes for DWDM Equipment considering future traffic growth
93		1.1 General point 17	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0oC to 70oC to sustain operation during outage, 5% to 85% Relative Humidity	As we understood DWDM equipment is to be installed in the cotrolled environment for that temperature requirement is '-5 °C to +55 °C and humidity requirement is 5% to 95%. Request to change the clause as mentioned.		Please check corrigendum I.
94		1.3 protection point 8	The OTN-XC equipment shall support ASON from day one with all required software and hardware. The DWDM Equipment shall be capable of supporting of WSON as per future requirement.	Please clarify the expectation w.r.t. DWDM protection, it shall be OTN DXC base ASON switching or LO GMPLS base switching		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
95	27	12. Scope of Work: 12.1 Supply and installation	d) The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability. Bidder has to provide minimum two redundant power supply and to meet all GFGNL's operational requirements. If required bidder may visit the locations and ensure equipment power requirement as per existing infrastructure. If any additional arrangement to be done as per supply equipment, bidder has to bear cost for the same	Telecom System are DC Powered Systems as AC power Supply transient changes affects the overall lifecycle of the equipment. Hence we request you to change "redundant integrated AC & DC power supply" to "redundant DC power supply".	DC power often provides better voltage stability and is less susceptible to voltage fluctuations or harmonics. This stability is critical for maintaining the integrity of sensitive electronic	DC Power is avaiable at GFGNL Shelter locations; Bidder may attend the workshop to derive requirements

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					components within telecom equipment	
96	35	13. Functional and Technical Specifications: A. Functional Requirements: 3	3. Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in PackageB) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual homed ring as mentioned in above network architecture subject to GFGNL competent authority approval. 3.1. In Package – A, maximum 5 OLTs/Transport Switch are planned in dual homed topology so existing architecture need not to be changed and only dropping capacity, port capacity etc requirement to be checked if proposed solution is based on existing network i.e. using existing network element/chassis. 3.2. In Package – B, 8 to 16 OLTs are planned in dual homed topology so bidder needs to plan number of OLTs as per below criteria where GFGNL provide the required fiber cores accordingly.	In order to dimension the number of interfaces in Transport Device, we request you to suggest on below points 1. The number of OLT Rings legs terminating on to each transport Device. 2. The number of Transport devices in ring. Please confirm.		As per RFP; Bidder may attend workshop to derive the requirements

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			3.2.1. No need to split ring upto 6 OLTs are planned in dual homed ring 3.2.2. Need to split ring into 2 where 7 to 12 OLTs are planned in dual homed ring 3.2.3. Need to split ring into 3 where more than 13 OLTs are planned in dual homed ring			

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97	35	13. Functional and Technical Specifications: A. Functional Requirements: 5	5. Bidder to upgrade existing annexure route (TC-DC route) in Package-B to 100 G (upgradable to 400 G in future) and use this upgraded annexure path as third path for redundancy in Package-B. Existing capacity of annexure path is 1 G. This annexure route is consisting of around ~ 30 locations in three main sections as mentioned below. 5.1. SDC (Gandhinagar) to Ranpur via Becharaji 5.2. Chotila to Keshod via Bhavnagar 5.3. Keshod to Dhrafa via Porbandar	In order to dimension the right type of cards on annexure route, we request you to suggest on below points 1. How many add/drop sites will be there on this route?. 2. Kindly confirm on number of sites with two directions, three directions, four direction.		As per RFP; Bidder may attend workshop to derive the requirements
98	36	13. Functional and Technical Specifications: A. Functional Requirements: 9	9 The solution should be built to provide the maximum protection for the services by using of any of the available fiber paths to protect the traffic Selected Bidder has to ensure for minimum 50% selected sites (as GFGNL is in process of additional ofc route works with purpose of ring shortning) planned equipment must support minimum 2 CNO and capable to support in future 3CNO, 4CNO depending on number of fiber route and with <50ms switch over time. GFGNL will share the name of the sites once bidder selected for the contract.	We understand that 2CNO implies traffic protection against two fiber cut, 3CNO implies traffic protection against three fiber cut, 4CNO implies traffic protection against four fiber cut with this understanding it is required to propose the solution with 9D ROADM which can connect to 3 ROADMs on different paths.However the BoM should be equied with 5 number of 9 D ROADMs for 3 directions at 50% of add/drop sites. While rest of the 50% with 4 number of 9 D ROADMs for 2 directions. Please suggest if our understanding is correct	ASON is designed using ROADM. It is useful to have higher degree ROADM so that future additional route can be added without disturbing existing setup. Higher degree ROADMs are available with all OEMs	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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99	36	13. Functional and Technical Specifications: A. Functional Requirements: 10	10. The bidder should use existing space and infrastructure available at GFGNL owned shelters or BSNL exchanges. Any new requirement for infrastructure (like additional equipment rack, power cabling, change in earthing or safety measures, MCB etc) should be borne by bidder with no extra cost to GFGNL. If required, bidder visit locations to get the idea of existing shelter of GFGNL.	We resquest GFGNL to inform about minimal space available in all GFGNL/BSNL exchanges We also request GFGNL to indicate the power supply in terms of wattages available for the deployment. With this information bidder can plan the additional infrastrature in his offering. Kindly confirm.		As per RFP; Bidder may attend workshop to derive the requirements
100	36	13. Functional and Technical Specifications: B. Technical Specifications: 3	3. DWDM/OTN/Packet traffic should be aggregated into the same lambda after timeslot adaption to different ODUk channel and ODUk multiplexing.	we understand bidder can propose best optimised solution to meet project requirement. Also we understand that the solution should complies of the packet node and DWDM/OTN node. Incase bidder is offering DWDM(10G/100G) transponder/muxponder solution OTN switching is not applicable. Please confirm if our understanding is correct.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
101	36	13. Functional and Technical Specifications: B. Technical Specifications: 8	8. The equipment shall support other service, such as E1,STM-1/4/16 using CES Interface, FE/GE/10G/100G using the IP/MPLS & MPLS-TP, FC using Transponder/Muxponder or using OTN-XC based on requirements as and when needed.	We understand bidder can propose best optimised solution to meet project requirement. IP/MPLS is more mature technology than MPLS-TP and all OEMs are moving towards IP/MPLS. Hence we request you to remove MPLS-TP. This project is to increase the bandwidth in backhaul network. E1 can have bandwidth only upto 2Mbps. Hence we request you to remove E1 from mandatory requirement.		As per RFP, Bidder has to comply in a proposed solution

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102	36	13. Functional and Technical Specifications: B. Technical Specifications: 9	9. The 100G line card shall support any mixture of ODUk (K=0,1,2,2e,3,4) granular multiplexing into ODU4.	ODU0 and ODU1 offers very low bandwidth on big 100G pipe and it is wastage of bandwidth on 100G pipe. Also 40G client is not used and every vendor has moved from 10G to 100G, so mapping of ODU3 is not required. Hence we request you to ODUK mapping as ODU2/ODU2e to ODU4. For bidder offering DWDM transponder/muxponder solution at 100G line card shall support mapping of ODU2/ODU2e to ODU4. Kindly confirm.		As per RFP, Bidder has to comply in a proposed solution
103	37	13. Functional and Technical Specifications: B. Technical Specifications: 10	10. The offered system shall support built-in OSNR, CD, PMD and optical monitoring for any optical channel (for example, power per channel, OSNR Per Channel).	100G Line will be a coherent base optics and CD, PMD are immaterial. Hence We request you to remove CD and PMD.	In RFP it is required to upgrade to 100G Line rate. 100G line optics are coherent base optics and CD, PMD are immaterial.	As per RFP, Bidder has to comply in a proposed solution
104	37	13. Functional and Technical Specifications: B. Technical Specifications: 11	11. For the 100G OTN switch function, traffic should be groomed either by cross connection cards/cross connect on OTN card, and backplane, should not by bridge/auxiliary cards or external pigtails.	We understand bidder can propose best optimised solution to meet project requirement. For bidder offering 100G muxponder solution it is not applicable. Kindly confirm.		As per RFP

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105	37	13. Functional and Technical Specifications: B. Technical Specifications: 14	14. The equipment shall also support the Ethernet service L2 aggregation of FE/GE/10GE/100GE, and mapped into ODUk(k=0,1,2,3,4,flex) to save the bandwidth	We understand bidder can propose its own solution to optimize best performance of the network. Bidder offering IP/MPLS platform with 100G line rate for replacing transport device doesnot require to offer ODU functionality. Hence ODU functionality is not applicable in that case. Considering this please make this cluase as optional. Please leave this decision on bidder to offer its own solution.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
106	37	13. Functional and Technical Specifications: B. Technical Specifications: 16	16. Backplane capacity must be minimum of 1 Tbps	We understand bidder can propose its own solution to optimize best performance of the network. We understand these backplane capacity referes to OTN cross connect solution. Also we understad that the 1Tbps capacity can be provided using multiple muxponder/transpoder worth of 1Tbps interfaces(line+client interfaces). Kindly confirm our undertstnding is correct		Yes for DWDM Equipment considering future traffic growth
107	37	13. Functional and Technical Specifications: B. Technical Specifications: 17	17. Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0oC to 70oC to sustain operation during outage, 5% to 85% Relative Humidity	we understabd that IP/MPLS device for replacing transport network device should cater to 0oC to 65oC. We also understand trasport DWDM equipment across industry are design to withstand temp range 0oC to 40oC. please confirm our understanding correct.	Telecom industry the transport devices and OTN/DWDM devices are generally installed in environment control sites.	Please check corrigendum I.

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108		13. Functional and Technical Specifications: B. Technical Specifications: 1.3 Protection	<p>1. The Proposed Network design shall describe in detail (with diagrams) the available network level protection schemes at the optical layer (OMS, OCh) with regards to 1+1 SNC protection and 1+1 optical line protection detailing the modules used to achieve such a protection, the switching criteria, the protection range (i.e. OTU traffic module, OCh, line fiber) as well as the protection switching times.</p> <p>2. The network design shall describe detailed protection schemes and switching times for a ring or meshed structure considering data traffic as a client interface. Moreover the design shall indicate if any of those modules are single points of failures (for example if the working and protection Transponder pair can be housed in different sub-racks).</p> <p>3. The system must support ODUK SNC/N and SNC/I protection.</p> <p>4. For the ODUK SNC 1+1 protection, it should be possible to configure a hold-off timer as specified in ITU-T recommendation.</p> <p>5. The equipment should support ODUK network restoration.</p> <p>6. The equipment should implement OCh protection switching mechanisms.</p> <p>7. Network Traffic / Services shall be available and switch or restores as per</p>	<p>We understand bidder can propose best optimised solution to meet project requirement. For providing redundancy in the network, the solution is designed either by giving two equipment or complete redundant equipment. It is being surmized that the solution with two equipments provides better resiliency compared to single redundant equipment. we understand that bidder can offer any of the options for realising redundancy in the network. Kindly confirm</p>		<p>Bidder should avoid single location equipment dependency in proposed design as mentioned in RFP</p>

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			<p>the ITU-T standard until fiber path is available.</p> <p>8. The OTN-XC equipment shall support ASON from day one with all required software and hardware. The DWDM Equipment shall be capable of supporting of WSON as per future requirement.</p> <p>9. Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)</p> <p>10. The Protection switchover time should be less than 50 ms.</p> <p>11. Equipment end protection with Power, controller, fabric protection and Hot-swappable modules.</p> <p>12. Equipment must support minimum two-way-ring protection however, bidder has to plan 50% of the selected sites minimum support 2 CNO(can support 4*100G provisioning), and must be capable to support 3CNO,4CNO depending on no of fiber route and with <50ms switch over delay. GFGNL will share the name of the sites once bidder selected for the contract. For all these new equipment, minimum support for 2CNO (3 way protection) is require. Equipment should have capability to increase protection in existing chasis with additional card/port addition.(Reference Diagram -01)</p> <p>13. In future, Additional sites where 2CNO ,4CNO required more than 50%</p>			

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			<p>will be purchased on BOQ discovered prices.</p> <p>14. Proposed OTN/DWDM network should facilitate ASON protection (Both Optical and electrical) as per service demands</p>			
109	37	13. Functional and Technical	9. Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)	we understand ERPS and FRR are required on IP/MPLS device with 100G line rate transport device. Kindly confirm our understanding is correct		As per RFP, Bidder has to comply in a proposed solution

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		Specifications: B. Technical Specifications: 1.3 Protection				

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110	38	13. Functional and Technical Specifications: B. Technical Specifications: 1.4 Ethernet/MPLS/Routing Feature	<ol style="list-style-type: none"> 1. The solution should support VLAN, QinQ based services, Quality of Service (QoS) as per IEEE 802.1p, programmable CIR (Committed Interface Rate), PIR (Peak Interrace Rate). 2. The solution shall support LAG (Link Aggregation Group) which can protect port with LACP (Link Aggregation Control Protocol) applied for. 3. The solution shall support DLAG (Distributed Link Aggregation Group) which can protect inter-board port with LACP (Link Aggregation Control Protocol) applied. 4. Equipment should support BFD (Bidirectional Forwarding Detection), RFC 2544 benchmark testing. 5. Automatic switchover between working and protecting and vice versa shall be executed less than 50 ms. 6. Equipment should support provisioning of different services such as VPWS, VPLS, H-VPLS, ELAN, EVLAN, EVPL, EPL, E-TREE, E-ACCESS. 7. Equipment should support RSVP-TE, LDP, MPLS-TP LSP Static provisioning, MPLS-IP, MS-PW (Multi Segment Pseudo Wire) 8. LSP and PW protection must be provided. 9. Revertive and Non-revertive operation must be provided. 10. Lockout of protection forced switch and manual switch commands 	<p>we understand that the transpoort network device should support relevent required protocols. We requeste you to remove following protocols</p> <ol style="list-style-type: none"> 1. ISIS-TE routing protocol- as OSPF-TE most widely deployed protocol. 2. IEEE802.1x - as this is access layer protocol and the project is about backhaul network hence, it is not required in transport network. 3. Non-revertive operation must be provided - as these are majorly used in SDH technology. 4. Lockout of protection forced switch and manual switch commands shall be supported - as these are majorly used in SDH technology. 5. SSA - This is storage architecture protocol and not relevent in transport network 6. MPLS-TP - Customers and vendor community has moved away MPLS-TP to IP/MPLS due to its inherent advantages of IP/MPLS over MPLS TP. All leading vendors have IP/MPLS and all telecom network deploymenst mostly on IP/MPLS. Further development on MPLS-TP has been stopped in the industry. 		As per RFP, Bidder has to comply in a proposed solution

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			<p>shall be supported.</p> <p>11. Equipment should support basic routing functionality such as Static Routing, IPv4, IPv6, OSPF-TE routing, ISIS-TE routing protocol.</p> <p>12. Equipment should support ACL (Access Control List), Radius, IEE802.1x, SSH, SSA, IGMP, PIM protocol.</p>			

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111	38	13. Functional and Technical Specifications: B. Technical Specifications: 1.6 Synchronization	1. The equipment must support clock recovery from GE(GFP-T)/GE/10GE LAN/40GE/100GE interface. 2. The equipment must support SyncE, DCR, ACR. 3. The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2 BC with ToD interface, please indicate the detail of time synchronization including electrical specification, networking, etc.	We request you to remove GE(GFP-T) as this SDH network requirement. For this RFP SDH is not required. SDH is obsolete technology and further enhancement has been stopped in the industry for SDH		As per RFP, Bidder has to comply in a proposed solution
112	39	13. Functional and Technical Specifications: B. Technical Specifications: 1.7 Interfaces Supported	1.7 Interfaces Supported 2. OTU1/OTU2/OTU2e/OTU3/OTU4	1. OTU3 - OTU3 is of 40G line rate. Telecom industry has moved from OTU2 to OTU4 directly, OTU3 is not used. We request you to remove this interface.		As per RFP, Bidder has to comply in a proposed solution
113			4. FC100/200/400/800/1200	2. FC100/200/400/800/1200 - we understand proposed equipment shall support these interfaces and quoted if asked in project. We request you to remove this interfaces requirement		As per RFP, Bidder has to comply in a proposed solution
114			5. DVB-ASI, SDI 270, HD-SDI 1.5G/3G	3. DVB-ASI, SDI 270, HD-SDI 1.5G/3G - These are not prevalent in current network scenarios. This project is backhaul capacity enhancement. We		As per RFP, Bidder has to comply in a proposed solution

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				request you to remove these interfaces		
115	39	13. Functional and Technical Specifications: B. Technical Specifications: 1.9 Network Management	1.9 Network Management 1. Web-based UI 2. Network Management System 3. EMS-APT 4. EMS-SNMPv2/v3	Kindly confirm what is required under EMS-APT		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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116	5	3. Background and Objective:	3.2 GFGNL has implemented BharatNet Phase – II network in Gujarat in two different packages. Package – A has three islands in Rest of Gujarat and Package – B has one island in Saurashtra region. Package – A has 12 districts & Package – B has 10 districts. Further, both the packages are divided into two zones. Package A has two zones i.e., Vadodara zone & Surat zone and Package B has two zones i.e., Ahmedabad zone & Rajkot zone. Bidders are also requested to get the technical information about the network implemented by GFGNL by referring to the RFP (Request for Proposal (RFP) for Selection of Project Implementing Agency for BharatNet Phase-II project in the State of Gujarat under Gujarat Fibre Grid Network Limited). GFGNL's Network comprises of the various technology equipment including GPON, DWDM, OTN, Ethernet, RFMS etc. GFGNL has installed telecom grade shelters and in process of shifting the OLT and other transport devices from BSNL exchange to these shelters. As of now shifting of OLT and other transport devices have already been done in 273 shelters out of total scope of 383 shelters.	There are total scope of 383 shelter OLTs. Sum of number of OLTs given in Table Details of network equipment in Package A and Details of network equipment in Package B is 404 OLTs. Kindly clarify the difference in number of OLTs		few OLTs are co-located in single shelter, hence no of OLT and Shelter count are not matched.

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117	26	12. Scope of Work: 12-b	b) The network shall be deployed over existing fiber network of GFGNL and to be designed to cater to all the running services along with the new services which are part of this document. Bidder must ensure for minimum down time to migrate the existing services to upgraded transport layer and make sure all the services run smoothly. (Bidder to use maximum of 2 fiber cores between 2 transport devices. GFGNL will provide additional fiber pairs for OLT ring splitting as per the requirement of SoW of this RFP.)	How many NE's,circuits location wise details,traffic matrix,existing setup details if made available during the tender submission,it would give bidder a chance to work on the effort of migration required along with commercials.Please clarify		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
118	27	12. Scope of Work: 12.1 Supply and installation: 12.1-c	c) The bidder shall be required to visit each site and submit floor and cabling diagram for approval of GFGNL if required additionally other than existing set up. Supply, Installation, and commissioning of the transport devices including patch-cord, MCB, power consumable and other miscellaneous accessories at various locations as per solution. Bidder to supply and install 21U/42U rack if required at 10% of total locations. and same is to be quoted as part of priced BOQ.	Does GFGNL will be provide Rack Space at all the site.Please clarify. What is the approximate length & guage of DC Power cable ,Earthing cable & Patch Cords are to be covered.Pls clairfy.		As per RFP-Refer Clause No-13-A-10; Bidder may attend workshop to derive the requirements

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119	34	12. Scope of Work: 12.10 General Condition 12.10.9	12.10.9 Existing equipment is dismantled under this tender may be required to be swapped and redeployed at other location due to operational requirement of GFGNL. The successful bidder shall extend necessary support for same as required during the contract period. The cost of transportation and other logistics, in such case, shall be borne by bidder.	How many existing sites are to dismantled. Request to share the details of the equipment to be dismantled so that Bidder shall plan the same and work on the commercials for Dismantling, Packaging, Logistics etc. Please clarify.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
120	26	12.h	Successful Bidder has to study existing fiber routes OTDR/LSPM for designing DWDM upgradation links with good threshold margin. During Design Bidder needs consider existing OFC losses and ensure sufficient margin in after Implementation.	We assume that Fiber Health & Losses would be consider as GFGNL's Master RFP.	This enables GFGNL to make all the Bidders to design the DWDM network on the Same Optical Parameters.	As per RFP, Bidder has to design link as per asked section loss and span margin
121	26 & 37	12.h & B.1.1.15.i	12.h Successful Bidder has to study existing fiber routes OTDR/LSPM for designing DWDM upgradation links with good threshold margin. During Design Bidder needs consider existing OFC losses and ensure sufficient margin in after Implementation. B.1.1.15.i The network shall be designed taking the following parameters into account. (i) Section/span loss – 32dB	We assume that Fiber Health & Losses would be consider as GFGNL's Master RFP.	This enables GFGNL to make all the Bidders to design the DWDM network on the Same Optical Parameters.	As per RFP, Bidder has to design link as per asked section loss and span margin

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122	27	12.1.e	<p>GFGNL will share the details/layouts of existing OFC network of respective locations with successful bidder and successful bidder will be responsible for planning, designing, installation and configuration of the supplied equipment. The EMS shall be installed and configured in consultation with GFGNL. All the perpetual software licenses shall be in the name of GFGNL.</p> <p>With reference to above reference high level diagram for partial section of network Selected bidder has to design/do re-engineering on ring/redundancy path design to avoid single location equipment dependency.</p>	<p>In The Reference High level Network Diagram of Partial Path, "Site-C" is single point of failure for all the sites from Site-C to Site-L. Similarly Site-H is single point of failure for all the sites from Site-H to Site-L.</p> <p>Request GFGNL to provide guideline on how to solve this network scenario incase exists in the existing Network.</p>	<p>Single point of Failure can't achieved with the mentioned Reference High elvel Network Topology if it exists in the existing network.</p>	<p>Proposed is logical diagram; Bidder may attend workshop to understand existing fiber infrastructure and design network topology to avoid single location equipment dependency</p>
123	35	A.2 & A.3	<p>A.2 The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.</p> <p>A.3 Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in PackageB) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual</p>	<p>We assume that 50Gbps Capacity to be Provision as Dual Homed Full-duplex.</p> <p>We also assume that the Access Network Port Capacity should be 5*10G / 2*25G / 1*100G and will be delivered on single Pair of Optical Fiber.</p> <p>Please clarify on both above points,</p>		<p>As per RFP; Dual Homed Full duplex traffic. Bidder has to deliver as per solution</p>

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			homed ring as mentioned in above network architecture subject to GFGNL competent authority approval.			
124	35	A.5	Bidder to upgrade existing annexure route (TC-DC route) in Package-B to 100 G (upgradable to 400 G in future) and use this upgraded annexure path as third path for redundancy in Package-B. Existing capacity of annexure path is 1 G. This annexure route is consisting of around ~ 30 locations in three main sections as mentioned below.	What should be the Dropping Port Capacity at Each TC & DC Location		Please check corrigendum I.
125	37	A.11	Bidder has to keep in mind that GFGNL is already implementing L3 layer in existing network which is as of now in the initial stage, selected bidder has to ensure for provisioning of DWDM circuits accordingly	Request GFGNL to Share the Planned or Ongoing implementation of Router network Architecture, interface required (Along with SFP Details of WAN & LAN), BW Required per router to provision the Circuits from DWDM layer.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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126	37	B.1.1.7	Span Budget - The system shall be able to support mixed operation of 10G/100G/200G/400G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s higher rate channels.	Incase the Bidder Proposes new DWDM Layer, can the bidder consider to support 100G/200G/400G Coherent Network Design with 10G Drop using OTN-XC / Transponder Cards ?	10G based network design requires Dispersion modules which adds Insertion Loss & Latency in the Core DWDM Network. Recommended not to mix the 10G Line Rate Interface with the Higher Line Rates like 100G/200G/400G . Please Clarify, 10G Line rate Interace not to be considered for desing in the Core DWDM Network.	It is solution based turnkey project; Bidder has to ensure delivery as per RFP
127	37	B.1.1.8	The equipment shall support other service, such as E1,STM-1/4/16 using CES Interface, FE/GE/10G/100G using the IP/MPLS & MPLS-TP, FC using Transponder/Muxponder or using OTN-XC based on requirements as and when needed.	Please Clarify, whether requirement mentioned in this clause should be available at each OLTE Location ? Please Clarify whether it will be future requirement will be ordered on priced BoM rate?		Bidder should ensure each interface support in his supply
128	37	B.1.1.9	The 100G line card shall support any mixture of ODUk (K=0,1,2,2e,3,4) granular multiplexing into ODU4.	Please clarify whether the bidder can propose 100G or 200G OR 400G Line card based on Network design ?		It is solution based turnkey project; Bidder has to ensure delivery as per RFP

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129	37	B.1.3.9	Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)	These are Pure layer-2 features.These features should be part of 1.4 Ethernet/MPLS/Routing feature set requirement. Please clarify.		As per RFP, Bidder has to comply in a proposed solution
130	37	B.1.3.12	Equipment must support minimum two-way-ring protection however, bidder has to plan 50% of the selected sites minimum support 2 CNO(can support 4*100G provisioning), and must be capable to support 3CNO,4CNO depending on no of fiber route and with <50ms switch over delay. GFGNL will share the name of the sites once bidder selected for the contract. For all these new equipment, minimum support for 2CNO (3 way protection) is require. Equipment should have capability to increase protection in existing chasis with additional card/port addition.(Reference Diagram -01)	Require Clarification from GFGNL, can the bidder propose 4*100G or 2*200G OR 1*400G as per Network Design?		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
131	37	B.1.1.17	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0°Cto 70°C sustain operation during outage, 5% to 85% Relative Humidity .	Please change Standard Operating Temperatures in Airconditioned shelters is in the rang of -5 °C to +45 °C. Please consider.	The Standard Operating Temperatures is in the rang of -5 °C to +45 °C. Please consider.	Please check corrigendum I.
132	38	B.1.1.3, B.1.4 & B.1.2	B.1.13 DWDM/OTN/Packet traffic should be aggregated into the same lambda after timeslot adaption to different ODUk channel and ODUk multiplexing. B.1.4 Ethernet/MPLS/Routing Feature	We assume that OTN-XC feature & Ethernet/MPLS/Routing features are provided in two different shlefs? Request GFGNL to provide more guidelines on this aspect. We assume that OEM Should provided appropriate features based on provided Solution. Please confirm.	OTN-XC feature & Ethernet/MPLS/Routing feature are two different tehcnologies, hence there is no product in the market which can	As per RFP, Bidder has to comply in a proposed solution

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					support both the featureset in single Box.	
133	38	B.1.4	B.1.4 Ethernet/MPLS/Routing Feature	We assume that OEM Should provided appropriate features based on provided Solution. Please confirm.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
134	38	B.1.6.2	The equipment must support SyncE, DCR, ACR.	We assume tha SyncE is synchronization protocol supports in Packet Products - Switches, Routers only.	The same features are not applicable for OTN-XC & DWDM Equipment.	As per RFP, Bidder has to comply in a proposed solution
135	39	B.1.6.3	The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2 BC with ToD interface, please indicate the detail of time synchronization including electrical specification, networking, etc.	We assume that IEEE 1588V2 BC with ToD interface is synchronization protocol features are applicable Packet Products - Switches, Routers only.	The same features are not applicable for OTN-XC & DWDM Equipment.	As per RFP, Bidder has to comply in a proposed solution
136	39	B.1.7	Interfaces Supported	Need more clarity on which product and what interface to be supplied and required interfaces per Device.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
137	39	B.1.8	Transponders and Muxponders	We assume that OEM Should provided appropriate features & Port based on provided Solution. Please confirm.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
138	39	B.1.8.1	10 x 10G Transponder/Muxponder	We assume that OEM Should provided appropriate features & Port based on provided Solution. Please confirm.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
139	39	B.1.8.1	10 x 10G Transponder/Muxponder	Transponder is different functionality compared to Muxponder. Request		It is solution based turnkey project; Bidder

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				GFGNL to provide more clarity on this requirement.		has to ensure delivery as per RFP
140	39	B.1.8.1	10 x 10G Transponder/Muxponder	We assume that OEM Should provided appropriate features & Ports based on provided Solution. Please confirm.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
141	39	B.1.7	Interfaces Supported	Does all the interfaces mentioned in this section to be supplied from Day-1 with Full Equiped Capacity.		As per RFP, Bidder has to comply in a proposed solution
142	39	B.1.7	Interfaces Supported	We assume that OEM Should provided appropriate features & Port based on provided OTN-XC Solution. Please confirm.		As per RFP, Bidder has to comply in a proposed solution
143	28	12.3.a.vii	At SDC all transport equipments must have 1:1 active - active redundancy.	Request to re-visit on the requirement. Also request to give more clarity on the requirement.	OTN-XC / DWDM Equipment doesn't support 1:1 Active - Active Redundancy.	1:1 Active Redundancy at Hardware level is required for 100% uptime of all the services
144	27	12.1.d	The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability.	Wea assume that bidder to supply Equipment with Redundant DC Power Supply (-48V). Please clarify	As per Telecom Standards, OTN-XC & DWDM Equipment supports D.C Power supply(-48v) only. Pls allow the bidder to supply Equipment with Redundant DC Power Supply (-48V)	DC Power is avaiable at GFGNL Shelter locations; Bidder may attend the workshop to derive requirements

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145	27	12.1.d	The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability.	We assume that the Proposed Transport Device must have dedicated Power Filter Slots in the Transport Shelf which are redundant and hot swappable when one of the unit is failed. Please clarify.		Yes
146	35	12.10.14	All the infrastructure equipments and systems supplied shall have inbuilt facility to extend alarm through potential-less NO/NC (normally open/closed) contacts or through change of suitable voltage levels as required by the equipment.	Standard Transport Device supports 4 output alarms & 4 input alarms (opto-couplers). Request GFGNL to allow the bidder to propose the standard Alarms.		As per RFP, Bidder has to comply in a proposed solution
147	39	B.1.9	Network Management	Request GFGNL to use the Existing Management systems for the Proposed Transport Devices		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
148	39	B.1.9	Network Management	We assume GFGNL will provide or Upgrade the H/w required resources - Virtual CPU, RAM & HDD. We assume GFGNL will upgrade the Operating System as per the Latest Management Software requirements.		VM, RAM, Storage, CPU will be provided by GFGNL. All EMS server and other software license will be provided by Bidder. Bidder may require to attend workshop to derive requirements
149	39	B.1.9	Network Management	We assume GFGNL will allow the bidder to upgrade the Existing EMS Management System to the Recommended latest version		Yes

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
150	34	12.10.7	The successful bidder should design the DCN network for the network devices and provide DCN devices e.g. routers and switches if required. GFGNL will confirm the design and provide necessary IP address and bandwidth in existing network set up. The external DCN plan for network management is to be finalized by the bidder and duly approved by GFGNL before the implementation of the same. The network devices should remain accessible from EMS even in case of cuts in OFC routes. The network should support Multi-Homing features.	We assume that External DCN Requirements required by Bidder will be provided by GFGNL. In-band Management of Proposed Transport Devices will be taken care by the Bidder. We assume bidder will provide Router or Switches required for DCN will be required at Central Management Site and rest other sites GFGNL will provide the Router / Switches for DCN.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
151	35	A.3.2	3.2. In Package – B, 8 to 16 OLTs are planned in dual homed topology so bidder needs to plan number of OLTs as per below criteria where GFGNL provide the required fiber cores accordingly. 3.2.1. No need to split ring upto 6 OLTs are planned in dual homed ring 3.2.2. Need to split ring into 2 where 7 to 12 OLTs are planned in dual homed ring 3.2.3. Need to split ring into 3 where more than 13 OLTs are planned in dual homed ring	As per the New OLTE Architecture requirement, we assume that the existing O&M partner will re-configure the OLTEs as per the requirement. Request GFGNL to ensure the same.		Existing O&M agency will support for OLT end configuration. However, Bidder has to ensure delivery in co-ordination with existing O&M Agency

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152	36	A.8	In current scenario traffic run from SDC for inter block/district level services. For provisioning of P2P/P2MP link from any block to any other block with links shortest path needs to explore rather than diverting link till SDC. The selected bidder has to provide the solution with the capability to run services from any block to any other block in any district across the state irrespective of package. Traffic design & equipment should be plan in a way that link delivery for inter package can be ensured without diverting traffic to SDC.	We assume that the Existing O&M Partner & GFGNL will make sure that such configuration works successfully between any OLTE to any OLTE irrespective of the Vendor. We assume that GFGNL will provide B.W requirements between PKG-A & PKG-B for such connectivity and also share the Point of Interconnect locations. Based on this bidder will provision the required BW in the transport devices only.		Existing O&M agency will support for OLT end configuration. However, Bidder has to ensure delivery in co-ordination with existing O&M Agency. Bidder may attend workshop for understanding
153	26	12-B	The network shall be deployed over existing fiber network of GFGNL and to be designed to cater to all the running services along with the new services which are part of this document. Bidder must ensure for minimum down time to migrate the existing services to upgraded transport layer and make sure all the services run smoothly. (Bidder to use maximum of 2 fiber cores between 2 transport devices. GFGNL will provide additional fiber pairs for OLT ring splitting as per the requirement of SoW of this RFP.)	Please clarify who would provide the existing traffic details for migration.		As per RFP; Bidder may attend workshop to derive the requirements

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154	26	12-F	The selected bidder has to check pre-feasibility of space and power at GFGNL shelters/co-located BSNL sites. Bidder has to reserve the space with predefine drawing from GFGNL competent authority and arrange power from GFGNL provided power tapping point with prior approval of GFGNL competent authority	Please confirm if the Site survey is mandatory for each location, Also please clarify if the power cable has to be laid from GFGNL power source to Rack of installation		As per RFP-Refer Clause No-13-A-10; Bidder may attend workshop to derive the requirements
155	26	12-H	Successful Bidder has to study existing fiber routes OTDR/LSPM for designing DWDM upgradation links with good threshold margin. During Design Bidder needs consider existing OFC losses and ensure sufficient margin in after Implementation.	Is OTDR testing required to check fibre losses. Is this to be done by OEM before designing the network or Before actual implementation starts		As per RFP; Bidder may attend workshop to derive the requirements
156	27	12.2-A	The Successful bidder shall be responsible for configuration/re-configuration of all the equipment/services as and when required.	Please specific the period for which this configuration have to carried out by the OEM partner		As per Implementation timeline mentioned in RFP
157		12.4/i	Bidder has to update the link delivery and inventories in existing GFGNL GIS system and extend necessary support for GIS,ERP and NMS integration for it's delivery as applicable.	RBBN is not aware of GFGNL GIS system , need clarification on the ownership.		As per RFP; Bidder may attend workshop to derive the requirements
158	33	12.9 / V	Any other details that may be required/asked by GFGNL.	All the details should be mutually agree with clear SOW on Day1		The Purpose is to have complete knowledge transfer during HOTO process

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159	34	12.10.7	The external DCN plan for network management is to be finalized by the bidder and duly approved by GFGNL before the implementation of the same. The network devices should remain accessible from EMS even in case of cuts in OFC routes. The network should support Multi-Homing features.	Need more clarity on external DCN plan as need to prepared by RBBN as we can prepare DCN plan for RBBN equipments		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
160	34	12.10.10	The Successful Bidder shall ensure the integration/interworking of equipment being supplied under this project with the all-existing Network/Equipment of the GFGNL. Along with EMS-NMS-GIS mapping & software integration.	RBBN is not aware of GFGNL GIS system , need clarification on the ownership on this point, need clarity on Software integration part		As per RFP; Bidder may attend workshop to derive the requirements
161	34	12.10.11.3	Acceptance Test results and successful AT Certificate/AT Clearance memo.	Need clarity on AT certificate and clearance memo		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
162	29	12.5	Service Level Standards/ Requirements	As per industry standards SLA should be defined according to severity (critical, major and minor) . Please reconsider		As per RFP
163	7	3.5	Bidder has to propose new solution of network elements to ensure proposed bandwidth delivery and may use existing Network components for cost optimization with reshuffling plan (if technically feasible) in such a way that downtime should be in line with SLA defined in RFP.	You are requested to provide- The detail of DWDM system which bidder needs to provide. - Detail of new LO DWDM system (MUXPONDER base) - Quantity of new DWDM system along with no. of line side ports with line capacity	This information and clarification is mandatory/important and the same is also required to make final Network	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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				- Detail of no. of clients with type of traffic requirements.	design to meet RFP deliverables.	
164	7	3.5	<p>Bidder has to propose new solution of network elements to ensure proposed bandwidth delivery and may use existing Network components for cost optimization with reshuffling plan (if technically feasible) in such a way that downtime should be in line with SLA defined in RFP.</p> <p>The bidder should make sure to Propose New network Solution with consideration to provide dedicated 2 Gbps bandwidth at each OLT from SDC. Existing network is built to provide dedicated 250 Mbps bandwidth at each OLT from SDC.</p>	<p>We understand that bidder needs to provide new DWDM system to cater traffic for data centres to access network i.e. OLTs/Routers and dropping bandwidth from DWDM layer to access layer (OLTs/Routers/Switches) shall be minimum 10gbps.</p> <p>Please confirm if our understanding is correct.</p>	<p>This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.</p>	<p>DWDM node/topology upgradation should be in manner to provide 2Gbps bandwidth requirement at each OLT end and ensure solution which is scalable up to 10Gbps at each OLT end with minimum hardware/software upgarde. Existing DWDM nodes/capacity may be used as a part of new solution.</p>
165	7	3.5	<p>The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.</p>	<p>Please provide the detail how many client ports are required in the DWDM system to serve the 10Gbps bandiwdth in day 1.</p> <p>Please also provide detail of line rate require from day 1.</p>	<p>This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.</p>	<p>It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements</p>

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166	23	11	Technical Evaluation Criteria: Deployment and capacity augmentation plan This shall consist of initial Bill of material proposed to provide 2 Gbps dedicated Bandwidth at all OLT level having scalability to 10 Gbps without changing baseline infrastructure	Please clarify, how many 10Gbps client ports are required for dropping from day 1 and also please clarify the line side rate of DWDM system in day 1.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
167	26	12.b	The network shall be deployed over existing fiber network of GFGNL and to be designed to cater to all the running services along with the new services which are part of this document. Bidder must ensure for minimum down time to migrate the existing services to upgraded transport layer and make sure all the services run smoothly. (Bidder to use maximum of 2 fiber cores between 2 transport devices. GFGNL will provide additional fiber pairs for OLT ring splitting as per the requirement of SoW of this RFP.)	It is requested to provide the no. of sites where DWDM network needs to be deployed along with network topology. Please also provide the count of the DWDM equipment with capacity requirement.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
168	26	12,C, H	Bidder to use maximum of 2 fiber cores between 2 transport devices. GFGNL will provide additional fiber pairs for OLT ring splitting as per the requirement of SoW of this RFP. Successful Bidder has to study existing fiber routes OTDR/LSPM for designing DWDM upgradation links with good threshold margin. During Design Bidder needs consider existing OFC	1) We assume that fibre health and losses to be considered as per GFGNL Master RFP. Please confirm. 2) As per telecom standard 4 dB fiber losses to be considered and after implementation, GFGNL/O&M Partner will maintain these fiber loses. Please Confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	As per RFP, Bidder has to design link as per asked section loss and span margin

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			losses and ensure sufficient margin in after Implementation			
169	26	12.1 C	The bidder shall be required to visit each site and submit floor and cabling diagram for approval of GFGNL if required additionally other than existing set up. Supply, Installation, and commissioning of the transport devices including patch-cord, MCB, power consumable and other miscellaneous accessories at various locations as per solution. Bidder to supply and install 21U/42U rack if required at 10% of total locations. and same is to be quoted as part of priced BOQ	<p>We understandt that bidder needs to provide DCDB to cater its equipment and GFGNL will provide the power supply from plant to newly installed MCBs box (DCDB). Please confirm.</p> <p>We understand that survey shall be done after award of PO, for standardization please provide the detail length of DC power cable including earthing cable required for individual sites.</p>	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	As per RFP-Refer Clause No-13-A-10; Bidder may attend workshop to derive the requirements
170	27	12.2	Maintenance and Facility Management:The Successful bidder shall be responsible for configuration/re-configuration of all the equipment/services as and when required.	Will successful bidder shall be responsible for configuration/re-configuration of supplied equipments. Please clarify.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Applicable for all network equipments as per proposed new solution integration

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171	26	12.1 D	d) The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability. Bidder has to provide minimum two redundant power supply and to meet all GFGNL's operational requirements. If required bidder may visit the locations and ensure equipment power requirement as per existing infrastructure. If any additional arrangement to be done as per supply equipment, bidder has to bear cost for the same.	We assume that GFGNL will provide DC Power at Each Location with appropriate power backup. Please confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	DC Power is available at GFGNL Shelter locations; Bidder may attend the workshop to derive requirements
172	27	12.1 E	GFGNL will share the details/layouts of existing OFC network of respective locations with successful bidder and successful bidder will be responsible for planning, designing, installation and configuration of the supplied equipment. The EMS shall be installed and configured in consultation with GFGNL. All the perpetual software licenses shall be in the name of GFGNL	We assume that GFGNL will provide required resource for EMS as per OEM solution and requirement. I.e.. Serve, RAM, VM, etc. Please confirm. Kindly update and share running VM version.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	VM, RAM, Storage, CPU will be provided by GFGNL. All EMS server and other software license will be provided by Bidder. Bidder may require to attend workshop to derive requirements
173	27	12.1.e	GFGNL will share the details/layouts of existing OFC network of respective locations with successful bidder and successful bidder will be responsible for planning, designing, installation and configuration of the supplied equipment. The EMS shall be installed and configured in consultation with GFGNL. All the perpetual software licenses shall be in the name of GFGNL. With reference to above reference	In The Reference High level Network Diagram of Partial Path, "Site-C" is single point of failure for all the sites from Site-C to Site-L. Similarly Site-H is single point of failure for all the sites from Site-H to Site-L. Request GFGNL to provide guideline on how to solve this network scenario incase exists in the existing Network.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Proposed is logical diagram; Bidder may attend workshop to understand existing fiber infrastructure and design network topology to avoid single location equipment dependency

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			high level diagram for partial section of network Selected bidder has to design/do re-engineering on ring/redundancy path design to avoid single location equipment dependency.			
174	34	12.10.6	Separate terminal panel shall be supplied by the bidder which will serve as distribution frame where equipment side Ethernet cables & patching side Ethernet cables can be terminated. The bidder shall supply the equipment to terminate panel Ethernet cables.	Please confirm and define how many terminal Panel with no. of ports (FDMS: Fibe rdistribution management system) shall be supplied.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
175	34	12.10.7	The successful bidder should design the DCN network for the network devices and provide DCN devices e.g. routers and switches if required. GFGNL will confirm the design and provide necessary IP address and bandwidth in existing network set up. The external DCN plan for network management is to be finalized by the bidder and duly approved by GFGNL before the implementation of the same.	Please confirm whether GFGNL will provide the bandwidth for external DCN or use its own IP scheme and create network for DCN.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
176	35	A.2 & A.3	<p>A.2 The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.</p> <p>A.3 Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in PackageB) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual homed ring as mentioned in above network architecture subject to GFGNL competent authority approval.</p>	<p>As 50Gbps capacity to be provisioned as Dual Homed Full-duplex, we understand that the Access Network Port Capacity should be 5*10G / 2*25G / 1*100G and deliver on 1 Pair of Optical Fiber. Please confirm.</p>	<p>Port Flexibility required for make Network design.</p>	<p>As per RFP; Dual Homed Full duplex traffic. Bidder has to deliver as per solution</p>
177	35	A.5	<p>Bidder to upgrade existing annexure route (TC-DC route) in Package-B to 100 G (upgradable to 400 G in future) and use this upgraded annexure path as third path for redundancy in Package-B. Existing capacity of annexure path is 1 G. This annexure route is consisting of around ~ 30 locations in three main sections as mentioned below.</p>	<p>What should be the Dropping Port Capacity at Each TC & DC Location. Please clarify.</p>	<p>This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.</p>	<p>Please check corrigendum I.</p>

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
178	35	13	<p>Functional and Technical Specifications: The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.</p>	<p>It is requested to provide complete detail of:</p> <ol style="list-style-type: none"> 1. No. of DWDM sites with technology L0 MUXPONDERS, with port requirement at client and line side. 2. No. of amplifier sites to cater traffic from DC to respective drop sites. 3. For future use how many channels along with no. of fiber directions are required. 4. Traffic Matrix detail in between Source and destination. 	<p>This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.</p>	<p>It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements</p>
179	35	3	<p>Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in Package- B) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual homed ring as mentioned in above network architecture subject to GFGNL competent authority approval.</p>	<p>Please provide the technical detail w.r.t. transport switch, is it L2 or L3 switch or it is related to the DWDM layer? Please clarify and confirm.</p>	<p>This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.</p>	<p>It is related to the DWDM layer and transport switch (L2-Smart). Bidder may require to attend workshop</p>
180	36	A.9	<p>The solution should be built to provide the maximum protection for the services by using of any of the available fiber paths to protect the traffic Selected Bidder has to ensure for minimum 50% selected sites (as GFGNL is in process of additional ofc route works with purpose of ring shortning) planned equipment must support minimum 2 CNO and capable to support in future 3CNO, 4CNO depending on number of fiber route and with <50ms switch over time.</p>	<p>3CNO & 4CNO protection is possible based on available fiber Routes and existing Network build. Features will be consider and in future based on ring shorting and fibre availability it will be configure based on installed appropriate hardware/SFP from approved BOM.Please confirm</p> <p>Please clarify, GFGNL is looking for ROADM base DWDM, L0 GMPLS network that supports multiple fiber cut, in that case please provide no. of</p>	<p>This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.</p>	<p>It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements</p>

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
			GFGNL will share the name of the sites once bidder selected for the contract.	ROADM cards with no. of directions are required. In that case 1st fiber cut can achieve <50ms but in case of lambda switching in multiple fiber cut traffic will take more than >50 ms.		
181	37	A.11	Bidder has to keep in mind that GFGNL is already implementing L3 layer in existing network which is as of now in the initial stage, selected bidder has to ensure for provisioning of DWDM circuits accordingly	It will be a helpful to the bidder , if GFGNL can Share the Planned or Ongoing implementation of Router network Architecture, interface required (along with SFP Details of WAN & LAN), BW Required per router to provision the Circuits from DWDM layer. Also please share the IP Network Layer.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
182	37	B.1.1.8	The equipment shall support other service, such as E1,STM-1/4/16 using CES Interface, FE/GE/10G/100G using the IP/MPLS & MPLS-TP, FC using Transponder/Muxponder or using OTN-XC based on requirements as and when needed.	Please confirm whether this requirement should be available at each OLTE Location. Also need clarity whether it will be future requirement based on BoM discovered rate or not.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Bidder should ensure each interface support in his supply

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
183	37	B.1.1.9	The 100G line card shall support any mixture of ODUk (K=0,1,2,2e,3,4) granular multiplexing into ODU4.	Can bidder can propose 100G or 200G OR 400G Line card based on Network design. Please confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder has to ensure delivery as per RFP
184	37	B.1.3.9	Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)	These are Pure layer-2 features.These features should be part of 1.4 Ethernet/MPLS/Routing feature set requirement. Please clarify and confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	As per RFP, Bidder has to comply in a proposed solution
185	37	B.1.3.12	Equipment must support minimum two-way-ring protection however, bidder has to plan 50% of the selected sites minimum support 2 CNO(can support 4*100G provisioning), and must be capable to support 3CNO,4CNO depending on no of fiber route and with <50ms switch over delay. GFGNL will share the name of the sites once bidder selected for the contract. For all these new equipment, minimum support for 2CNO (3 way protection) is require. Equipment should have capability to increase protection in existing chasis with additional card/port addition.(Reference Diagram -01)	We understand that the bidder can propose 4*100G or 2*200G OR 1*400G as per Network Design and requirement. Please confirm.	Port Flexibility required for make Network design.	It is solution based turnkey project; Bidder has to ensure delivery as per RFP

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
186	37	B.1.1.17	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0°Cto 70°C sustain operation during outage, 5% to 85% Relative Humidity .	As per our understanding, DWDM equipment is to be installed in the cotrolled environment and for that temperature requirement is '-5 °C to +45 °C and humidity requirement is 5% to 95%. Request you to please review and amend the clause accordingly.	These are standard parameters. Please consider.	Please check corrigendum I.
187	38	B.1.1.3, B.1.4 & B.1.2	B.1.13 DWDM/OTN/Packet traffic should be aggregated into the same lambda after timeslot adaption to different ODUk channel and ODUk multiplexing. B.1.4 Ethernet/MPLS/Routing Feature	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP
188	38	B.1.4	B.1.4 Ethernet/MPLS/Routing Feature	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP
189	38	B.1.6.2	The equipment must support SyncE, DCR, ACR.	SyncE is synchronization protocol supports in Packet Products - Switches, Routers only. Request GFGNL to please remove the same features for OTN-XC & DWDM Equipment.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	As per RFP, Bidder has to comply in a proposed solution

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
190	39	B.1.6.3	The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2 BC with ToD interface, please indicate the detail of time synchronization including electrical specification, networking, etc.	IEEE 1588V2 BC with ToD interface is synchronization protocol supports in Packet Products - Switches, Routers only. Request GFGNL to please remove the same features for OTN-XC & DWDM Equipment.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	It is solution based turnkey project; Bidder has to ensure delivery as per RFP
191	39	B.1.7	Interfaces Supported	Need more clarity on required interfaces per Device and which product and what interface to be supplied. Request to elaborate.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
192	39	B.1.8	Transponders and Muxponders	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP
193	39	B.1.8.1	10 x 10G Transponder/Muxponder	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP

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194	39	B.1.8.1	10 x 10G Transponder/Muxponder	Transponder is different functionality compared to Muxponder. Request GFGNL to provide more clarity on this requirement.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder has to ensure delivery as per RFP
195	39	B.1.8.1	10 x 10G Transponder/Muxponder	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPLS) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP
196	39	B.1.7	Interfaces Supported	All the interfaces which is mentioned in this section to be Full Equiped Capacity on day 1? Please confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder has to ensure delivery as per RFP
197	39	B.1.7	Interfaces Supported	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPLS) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
198		1.1 General point 3	Technical Specifications:The line interfaces should support the tuning of the carrier frequency or pluggable optical module which can be tuned to any of on all the working channels defined in ITU-T Recommendation.	Please provide detail of line side port capacity requirement along with total no. of ports required.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
199		1.1 General point 15	The network shall be designed taking the following parameters into account. (i) Section/span loss – 32dB (ii) Span Margin : 5 dB	As per our understanding 32 db. section/span loss is included with the span margin 5 db. Please confirm.	This information and clarification is mandatory/important and the same is also required to make final Network design to meet RFP deliverables.	Span Margin is not inclusive of Section/Span loss
200		1.1 General point 7	Span Budget - The system shall be able to support mixed operation of 10G/100G/200G/400G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s higher rate channels.	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP
201		1.1 General point 11	For the 100G OTN switch function, traffic should be groomed either by cross connection cards/cross connect on OTN card, and backplane, should not by bridge/auxiliary cards or external pigtailed.	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
202		1.3 protection point 8	The OTN-XC equipment shall support ASON from day one with all required software and hardware. The DWDM Equipment shall be capable of supporting of WSON as per future requirement.	Features, protocol and parameters to be supported as per provided solution for network upgrade and it should be required as per ITU-T standard. Please confirm.	Based on solution and technology (OTN/ASON/MPL S) Features, protocol and parameters to be supported as per ITU-T standard.	Bidder has to comply standards as mentioned in RFP
203	26	12.h	Successful Bidder has to study existing fiber routes OTDR/LSPM for designing DWDM upgradation links with good threshold margin. During Design Bidder needs consider existing OFC losses and ensure sufficient margin in after Implementation.	1.Our submission is that GFGNL will provide the Existing OTDR/LSPM Values to design the Network. 2.As per Telecom standard per span margin should be 4db	This enables GFGNL to make all the Bidders to design the DWDM netowrk on the Same Optical Parameters.	As per RFP; Bidder may attend workshop to derive the requirements
204	26 & 37	12.h & B.1.1.15.i	12.h Successful Bidder has to study existing fiber routes OTDR/LSPM for designing DWDM upgradation links with good threshold margin. During Design Bidder needs consider existing OFC losses and ensure sufficient margin in after Implementation. B.1.1.15.i The network shall be designed taking the following parameters into account. (i) Section/span loss – 32dB	We recommend to consider OTDR/LSPM losses needs to consider	This enables GFGNL to make all the Bidders to design the DWDM netowrk & Switch-Switch & OLTE-OLTE Network on the Same Optical Parameters.	As per RFP; Bidder may attend workshop to derive the requirements

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205	27	12.1.e	<p>GFGNL will share the details/layouts of existing OFC network of respective locations with successful bidder and successful bidder will be responsible for planning, designing, installation and configuration of the supplied equipment. The EMS shall be installed and configured in consultation with GFGNL. All the perpetual software licenses shall be in the name of GFGNL.</p> <p>With reference to above reference high level diagram for partial section of network Selected bidder has to design/do re-engineering on ring/redundancy path design to avoid single location equipment dependency.</p>	<p>In reference HLDiagram of Partial Path, "Site-C" is single point of failure for all the sites from Site-C to Site-L. Similarly Site-H is single point of failure for all the sites from Site-H to Site-L. Request GFGNL to provide guideline on how to solve this network scenario incase exists in the existing Network.</p>	<p>Single point of Failure can't achieved with the mentioned Reference High elvel Network Topology if it exists in the existing network.</p>	<p>Proposed is logical diagram; Bidder may attend workshop to understand existing fiber infrastructure and design network topology to avoid single location equipment dependency</p>
206	35	A.2 & A.3	<p>A.2 The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.</p> <p>A.3 Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in PackageB) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual</p>	<p>50Gbps Capacity to be Provision as Dual Homed Full-duplex, the Access Network Port Capacity should be 5*10G / 2*25G / 1*100G and deliver on 1 Pair of Optical Fiber.</p>		<p>As per RFP; Dual Homed Full duplex traffic. Bidder has to deliver as per solution</p>

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			homed ring as mentioned in above network architecture subject to GFGNL competent authority approval.			
207	35	A.3	A.2 The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.	Incase there 6 x OLTE in 50Gbps ring, each OLTE Will be Served with 8.33Gbps BW. Or incase 10Gbps Per OLTE x 6 OLTE in Ring, then 60Gbps BW is required. Request GFGNL to clarify on the BW Requirement Per OLTE When there are 6 x OLTE are in Ring. Similarly for the Switch Based Network.	Need detailed inputs from GFGN with respect to this.	Bidder has to deliver as per RFP and as an exceptional case, 6 x OLT in a ring may be provisioned basis GFGNL approval only and valid justification from Bidder. However, the sole decision to approve 6 x OLTs in ring lies with GFGNL ONLY
208	35	A.5	Bidder to upgrade existing annexure route (TC-DC route) in Package-B to 100 G (upgradable to 400 G in future) and use this upgraded annexure path as third path for redundancy in Package-B. Existing capacity of annexure path is 1 G. This annexure route is consisting of around ~ 30	Please confirm BW requirement at each TC & DC Locations.		Please check corrigendum I.

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			locations in three main sections as mentioned below.			
209	37	B.1.1.7	Span Budget - The system shall be able to support mixed operation of 10G/100G/200G/400G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s higher rate channels.	Incase the Bidder Proposes new DWDM Layer, can the bidder consider to support 100G/200G/400G Coherent Network Design with 10G Drop using OTN-XC / Transponder Cards. 10G based network design requires Dispersion modules which adds Insertion Loss & Latency in the network. Recommends not to mix the network design with 10G Line Rate with the Higher Line Rates like 100G/200G/400G.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
210	37	B.1.1.8	The equipment shall support other service, such as E1,STM-1/4/16 using CES Interface, FE/GE/10G/100G using the IP/MPLS & MPLS-TP, FC using Transponder/Muxponder or using OTN-XC based on requirements as and when needed.	Please Clarify, whether this requirement should be available at each OLTE Location. Please Clarify whether it will be future requirement based on BoM discovered rate.		Bidder should ensure each interface support in his supply
211	37	B.1.1.9	The 100G line card shall support any mixture of ODUk (K=0,1,2,2e,3,4) granular multiplexing into ODU4.	Please clarify whether the bidder can propose 100G or 200G OR 400G Line card based on Network design.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
212	37	B.1.3.9	Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)	These are Pure layer-2 features.These features should be part of 1.4 Ethernet/MPLS/Routing feature set requirement. Please Clarify.		As per RFP, Bidder has to comply in a proposed solution

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
213	37	B.1.3.12	Equipment must support minimum two-way-ring protection however, bidder has to plan 50% of the selected sites minimum support 2 CNO(can support 4*100G provisioning), and must be capable to support 3CNO,4CNO depending on no of fiber route and with <50ms switch over delay. GFGNL will share the name of the sites once bidder selected for the contract. For all these new equipment, minimum support for 2CNO (3 way protection) is require. Equipment should have capability to increase protection in existing chasis with additional card/port addition.(Reference Diagram -01)	Please clarify whether the bidder can propose 100G or 200G OR 400G Line card based on Network design.		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
214	37	B.1.1.17	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0°Cto 70°C sustain operation during outage, 5% to 85% Relative Humidity .	Operating Temperatures in the range of -5 °C to +45 °C. Please review this parameter and update accordingly.		Please check corrigendum I.
215	38	B.1.1.3, B.1.4 & B.1.2	B.1.13 DWDM/OTN/Packet traffic should be aggregated into the same lambda after timeslot adaption to different ODUk channel and ODUk multiplexing. B.1.4 Ethernet/MPLS/Routing Feature	OTN-XC feature & Ethernet/MPLS/Routing feature are two different tehcnologies, hence there is no product in the market which can support both the featureset in single Box. Request GFGNL to provide more guidelines on this aspect. We assume that Bidder Should provided appropriate features based on provided Solution. Please confirm.		As per RFP, Bidder has to comply in a proposed solution

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
216	38	B.1.1.3, B.1.4 & B.1.2	B.1.13 DWDM/OTN/Packet traffic should be aggregated into the same lambda after timeslot adaption to different ODUk channel and ODUk multiplexing. B.1.4 Ethernet/MPLS/Routing Feature	We assume that Bidder Should provided appropriate features based on provided Solution. Please confirm.		As per RFP, Bidder has to comply in a proposed solution
217	38	B.1.6.2	The equipment must support SyncE, DCR, ACR.	SyncE is synchronization protocol supports in Packet Products - Switches, Routers. Request GFGNL to remove from OTN-XC & DWDM Equipment.		As per RFP, Bidder has to comply in a proposed solution
218	39	B.1.6.3	The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2 BC with ToD interface, please indicate the detail of time synchronization including electrical specification, networking, etc.	IEEE 1588V2 BC with ToD interface is synchronization protocol supports in Packet Products - Switches, Routers. Request GFGNL to remove from OTN-XC & DWDM Equipment.		As per RFP, Bidder has to comply in a proposed solution
219	39	B.1.7	Interfaces Supported	Please clarify interface required from SDC to last tranmission node.Does all the interfaces mentioned in this section to be supplied from Day-1.We assume that OEM Should provided appropriate features & Port based on provided OTN-XC Solution. Please confirm.		As per RFP, Bidder has to comply in a proposed solution
220	39	B.1.8	Transponders and Muxponders	We assume that OEM Should provided appropriate features & Port based on provided Solution. Please confirm.		As per RFP, Bidder has to comply in a proposed solution
221	39	B.1.8.1	10 x 10G Transponder/Muxponder	Transponder is different functionality compared to Muxponder. Request GFGNL to provide more clarity on this requirement.Request GFGNL to allow the bidder propose to 6 x 10G Transponder instead of 10 X 10G		It is solution based turnkey project; Bidder has to ensure delivery as per RFP

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222	34	12.10.7	The successful bidder should design the DCN network for the network devices and provide DCN devices e.g. routers and switches if required. GFGNL will confirm the design and provide necessary IP address and bandwidth in existing network set up. The external DCN plan for network management is to be finalized by the bidder and duly approved by GFGNL before the implementation of the same. The network devices should remain accessible from EMS even in case of cuts in OFC routes. The network should support Multi-Homing features.	It is understood that GFGNL will arrange BW for external DCN. there will be no role of bidder regarding this. Please clarify.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
223	35	12.10.14	All the infrastructure equipments and systems supplied shall have inbuilt facility to extend alarm through potential-less NO/NC (normally open/closed) contacts or through change of suitable voltage levels as required by the equipment. The minimum set of alarms required are: 12.10.14.1 Power failure alarm 12.10.14.2 High temperature alarm 12.10.14.3 Battery Low (Voltage of the battery bank below a threshold level) alarm 12.10.14.4 Cabin Door open alarm 12.10.14.5 Fire Alarm	AS per telecom standards all transmission equipments supports 4 external alarms. Please consider.		As per RFP, Bidder has to comply in a proposed solution

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
224	35	13. A/4	4. Existing GFGNL TC(Taluka Centre),DC(District Centre) are also in bidder scope irrespective of functional requirement of network upgradation	How much BW we needs to plan at DC & TC.Also it is understood that these locations will be part of access ring only.		Please check corrigendum I.
225	36	13. A/11	Bidder has to keep in mind that GFGNL is already implementing L3 layer in existing network which is as of now in the initial stage, selected bidder has to ensure for provisioning of DWDM circuits accordingly	It is understood that bidder has to provision ckts only for these proposed L3 devices and proposed L3 layer device will not part of transport layer.Please clarify		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
226	39	1.9/1	1.9 Network Management 1. Web-based UI 2. Network Management System 3. EMS-APT 4. EMS-SNMPv2/v3	we understood if solution supported on existing GUI based EMS than no further requirement of Web-based UI.Please consider-Network Management System		As per RFP
227	28	12.3/vii	At SDC all transport equipments must have 1:1 active - active redundancy.	We understood only Power/Mother card/dropping card redundancy 1:1 required in single box		1:1 Active Redundancy at Hardware level is required for 100% uptime of all the services
228	7	3.5	Bidder has to propose new solution of network elements to ensure proposed bandwidth delivery and may use existing Network components for cost optimization with reshuffling plan (if technically feasible) in such a way that downtime should be in line with SLA defined in RFP.	It is requested to provide the detail of DWDM system, bidder needs to provide new LO DWDM system (MUXPONDER base) and also please provide the quantity of new DWDM system along with no. of line side ports with line capacity required, and also please provide the detail of no. of clients with type of traffic requirements.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
229	7	3.5	The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.	Please provide the detail how many client ports are required in the DWDM system to serve the 10Gbps bandwidth in day 1, and also please provide detail of line rate require from day 1.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
230	27	12.1.d	The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability.	Please clarify, supplied DWDM equipment shall be DC power supplied (-48 volt) only		DC Power is available at GFGNL Shelter locations; Bidder may attend the workshop to derive requirements
231	35	13	Functional and Technical Specifications: The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if required in future on discovered rates based on BOQ in this RFP.	It is requested to provide complete detail of: 1. No. of DWDM sites with technology L0 MUXPONDERS, with port requirement at client and line side. 2. No. of amplifier sites to cater traffic from DC to respective drop sites. 3. For future use how many channels along with no. of fiber directions are required. 4. Traffic Matrix detail in between Source and destination.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
232	5	3.2	Details of network equipment in Package A and Details of network equipment in Package B	Please share network topology details of existing OEM Backhaul network for both Package A and Package B along with fiber length and losses		It is solution based turnkey project; Bidder may attend workshop for better understanding to

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
						derive RFP requirements
233	7	3.5	Bidder has to propose new solution of network elements to ensure proposed bandwidth delivery and may use existing Network components for cost optimization with reshuffling plan (if technically feasible) in such a way that downtime should be in line with SLA defined in RFP	Kindly share existing network DWDM layer details to check if existing optical layer can be reused for higher bandwidth cards as per below details both for Package A and Package B 1. Existing DWDM network is ROADM based or passive DWDM? 2. No. of free ports on existing Mux/DMUX ports to augment channels 3. Filter width of existing mux dmux and WSS cards (50 GHz or 100GHz) 4. Insertion loss of existing mux dmux and WSS cards 5. Amp gain value and noise figure of existing amplifiers		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
234	7	3.5	The bidder should make sure to Propose New network Solution with consideration to provide dedicated 2 Gbps bandwidth at each OLT from SDC. Existing network is built to provide dedicated 250 Mbps bandwidth at each OLT from SDC. The solution should be readily upgradable to 10 Gbps bandwidth at each OLT from SDC with minimum hardware requirement hence bidder to make sure to install appropriate chassis, slot etc. and only additional Card, SFP, patchcords, other consumable active and passive item required at if	We understand that bidder has to offer traffic cards to meet 10Gbps traffic requirement per OLT from day 1. Kindly confirm		DWDM node/topology upgradation should be in manner to provide 2Gbps bandwidth requirement at each OLT end and ensure solution which is scalable up to 10Gbps at each OLT end with minimum hardware/software upgarde. Existing DWDM nodes/capacity may be used as a part of new solution.

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
			required in future on discovered rates based on BOQ in this RFP.			
235	36	B	Technical specifications : The technical specifications mentioned here is mainly for new make and model of different OEM to be supplied and installed.	We understand existing OEMs products also need to comply to these technical requirements in new proposed upgrade solution. Kindly confirm		Technical specifications will be applicable to the all OEM/Bidder
236	37	B 1.1 (10)	The offered system shall support built-in OSNR, CD, PMD and optical monitoring for any optical channel (for example, power per channel, OSNR Per Channel)	For higher rate coherent signals, Pre-FEC BER is more accurate method for monitoring channel performance as compared to OSNR because OSNR measurement considers noise only in 0.1nm window. OSNR was considered better for 10G narrow band signals as compared to 100G/200G. We suggest to change monitoring channel performance by Pre-FEC BER instead of OSNR		As per RFP, Bidder has to comply in a proposed solution
237	37	B 1.1 (15)	The network shall be designed taking the following parameters into account. (i) Section/span loss – 32dB (ii) Span Margin : 5 dB (iii) End to end OSNR – better than	We understand that section/span loss specified as 32dB already includes 5dB margin . Kindly confirm		Span Margin is not inclusive of Section/Span loss

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
			12db for 100G and better than 18db for 200 G			
238	37	B 1.1 (17)	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0 C to 70C to sustain operation during outage, 5% to 85% Relative Humidity	High capacity DWDM are the backbone network equipment which are installed under controlled environment . It is suggested to change long term operating temperature range requirement as 5degreeC to 40 degree C and add short term operating temperature range as -5degreeC to 50 degree C in accordance with International standards ETSI EN 300 019-1-3 v2.4.1 (2015-12) Class 3.1E and Telcordia GR-63-CORE, Issue 5 (NEBS).		Please check corrigendum I.
239	37	B 1.3 (5)	The equipment should support ODUk network restoration	We understand that bidder can propose any transport solution for protection and restoration architecture to meet tender functional requirements. Kindly confirm		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
240	27	12.1 (d)	The newly provided equipments should support redundant integrated AC & DC power supply and redundant fans for high availability	Request GFGNL to clarify wheather AC or DC powered equipment are required to be proposed in solution		DC Power is avaiable at GFGNL Shelter locations; Bidder may attend the workshop to derive requirements
241	28	12.3 vii	At SDC all transport equipments must have 1:1 active - active redundancy.	Request GFGNL to kindly provide more details on this requirement		1:1 Active Redundancy at Hardware level is required for 100% uptime of all the services

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
242	35	A.5	Bidder to upgrade existing annexure route (TC-DC route) in Package-B to 100 G (upgradable to 400 G in future) and use this upgraded annexure path as third path for redundancy in Package-B. Existing capacity of annexure path is 1 G. This annexure route is consisting of around ~ 30 locations in three main sections as mentioned below.	Site wise client side dropping Ports requirement is not mentioned in RFP, kindly provide the same		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
243	37	A.11	Bidder has to keep in mind that GFGNL is already implementing L3 layer in existing network which is as of now in the initial stage, selected bidder has to ensure for provisioning of DWDM circuits accordingly	Kindly provide the L3 network topology , interface requirement and BW required per router/traffic matrix to design appropriate bandwidth in backhaul DWDM network.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
244	36	B 1.1 (7)	The system shall be able to support mixed operation of 10G/100G/200G/400G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s higher rate channels.	10G based DWDM network are not in use nowadays as it requires DCM modules which adds additional loss and complexity. It is suggested to design new DWDM layer(s) with coherent technology which can support 100G or higher line rates		It is solution based turnkey project; Bidder has to ensure delivery as per RFP
245	37	B 1.3 (9)	Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)	These features belongs to layer2 and not applicable for the DWDM network being asked in the RFP. It is requested to delete this requirement		As per RFP, Bidder has to comply in a proposed solution
246	37 & 38	B 1.2 & B1.4	B 1.2 Switching : OTN Switch B 1.4 Ethernet/MPLS/Routing	OTN cross connect is Layer 1 and Ethernet/MPLS/Routing feature L2/L3 technologies which are totally different when used as Transport. We understand that to meet prime requirement of upgrading backhaul network to increase bandwidth per		It is solution based turnkey project; Bidder has to ensure delivery as per RFP

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
				OLT to 2Gbps, bidder can offer any technology based solution viz. Layer 0, Layer 1 or Layer2/3.		
247	38	B 1.6 (2)	The equipment must support SyncE, DCR, ACR.	SyncE is synchronization protocol used by Layer2/layer 3 transport solution and is not applicable for DWDM based transport network. We requested GFGNL to kindly remove this requirement		As per RFP, Bidder has to comply in a proposed solution
248	39	B 1.6 (3)	The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2 BC with ToD interface, please indicate the detail of time synchronization including electrical specification, networking, etc.	1588 V2 is synchronization protocol used by Layer2/layer 3 transport solution and is not applicable for DWDM based transport network. We requested GFGNL to kindly remove this requirement		As per RFP, Bidder has to comply in a proposed solution
249	39	B 1.7 & B1.8	1.7 Interfaces Supported 1. 10/100/1000bT/1 Gig/10 Gig/100 Gig/200 Gig/400 Gig Ethernet 2. OTU1/OTU2/OTU2e/OTU3/OTU4 3. 200G/400G DWDM/OTN 4. FC100/200/400/800/1200 5. DVB-ASI, SDI 270, HD-SDI 1.5G/3G 1.8 Transponders and Muxponders 1. 10 x 10G Transponder/Muxponder 2. 400G/200G/100G Transponder/Muxponder	Kindly provide the count of these interfaces required per location		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
250	35	13. Functional and Technical Specifications:-3	<p>Bidder to consider both layers i.e. i> Transport layer and ii> Transport Switch (in Package-A) and OLT (in Package- B) for the upgradation in such a way that maximum 5 or 6 OLTs to be planned in any 50 Gig capacity dual homed ring as mentioned in above network architecture subject to GFGNL competent authority approval.</p> <p>3.1. In Package – A, maximum 5 OLTs/Transport Switch are planned in dual homed topology so existing architecture need not to be changed and only dropping capacity, port capacity etc requirement to be checked if proposed solution is based on existing network i.e. using existing network element/chassis.</p> <p>3.2. In Package – B, 8 to 16 OLTs are planned in dual homed topology so bidder needs to plan number of OLTs as per below criteria where GFGNL provide the required fiber cores accordingly.</p> <p>3.2.1. No need to split ring upto 6 OLTs are planned in dual homed ring</p> <p>3.2.2. Need to split ring into 2 where 7 to 12 OLTs are planned in dual homed ring</p> <p>3.2.3. Need to split ring into 3 where more than 13 OLTs are planned in dual homed ring</p>	<p>As provided solution should be upgradable to 10 Gbps bandwidth at each OLT from SDC then may be need to upgrade/replace the OLT hardware so bidder will offer/provide the both DWDM & OLT system, Please clarify, Please elaborate the 3.1 & 3.2 requirement.</p> <p>Network Topology, link distance & losses are not available in Tender document.</p>		<p>OLT Upgrade is not required; Bidder may attend workshop for understanding</p>

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
251	36	13. Functional and Technical Specifications:-1.1.5	The proposed solution should support the implementation of GMPLS (RFC 3945) and ASON (ITU-T G.8080).	As per network architecture of Package A & B, Transport & Transport switch are connected in a ring with 10G uplink ports and dual homed on 1G/10G dropping ports of transport mux on both sides, It seems that there is no mesh kind of architecture so we suggest no GMPLS & ASON is required based on topology & solution.		As per RFP, Bidder has to comply in a proposed solution
252	36	13. Functional and Technical Specifications:-1.1.8	The equipment shall support other service, such as E1,STM-1/4/16 using CES Interface, FE/GE/10G/100G using the IP/MPLS & MPLS-TP, FC using Transponder/Muxponder or using OTN-XC based on requirements as and when needed.	As required solution is based on DWDM technology and optical/wavelength as carrier then why need IP/MPLS & MPLS-TP, Please clarify.		It is solution based turnkey project; Bidder may attend workshop for better understanding to derive RFP requirements
253	37	13. Functional and Technical Specifications:- 1.1.10	The offered system shall support built-in OSNR, CD, PMD and optical monitoring for any optical channel (for example, power per channel, OSNR Per Channel).	We understand that OSNR, CD, PMD and optical monitoring is required at transponder/muxponder module level, Please clarify.		As per RFP, Bidder has to comply in a proposed solution
254	37	13. Functional and Technical Specifications:- 1.1.16	Backplane capacity must be minimum of 1 Tbps	All required traffic can transparently transmit through Transponder/Muxponder so why need backplane capacity, Please clarify.		Yes for DWDM Equipment considering future traffic growth
255	37	13. Functional and Technical Specifications	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0oC to	As per DWDM, standard environment condition is operating temperature: +5°C to +40°C,Short-term temperature: -5°C to +55°C so we		Please check corrigendum I.

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
		ons:- 1.1.16	70oC to sustain operation during outage, 5% to 85% Relative Humidity	suggest please consider standard environment value		
256	37	13. Functional and Technical Specifications:- 1.2.1/2/3	The bidder shall detail the capacity of the integrated OTN switch, its granularity, and types of supported OTN tributary /lines cards (O-E-O) used for sub-lambda grooming and aggregation as well as their tune ability support.	All required traffic can transparently transmit through Transponder/Muxponder so why need backplane capacity & sub-lambda grooming , Please clarify.		As per RFP, Bidder has to comply in a proposed solution
257	37	13. Functional and Technical Specifications:-1.3.9	Equipment should support, ERPS (Ethernet Ring Protection Switching - G.8032), FRR (Fast ReRoute)	Traffic can protect using optical layer protection scheme OTS,OMS,ODUK then why need ERPS protection.Please clarify		As per RFP, Bidder has to comply in a proposed solution
258	38	13. Functional and Technical Specifications:- 1.4.1...12	The solution should support VLAN, QinQ based services, Quality of Service (QoS) as per IEEE 802.1p, programmable CIR (Committed Interface Rate), PIR (Peak Interrace Rate). Equipment should support ACL (Access Control List), Radius, IEE802.1x, SSH, SSA, IGMP, PIM protocol.	As required solution is based on DWDM technology and optical/wavelength as a carrier then why need VLAN, QinQ and QOS , Please clarify.		As per RFP, Bidder has to comply in a proposed solution

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Sr. No	Page No.	Clause/ Sub-clause	Content of the RFP Requiring Clarification	Query / Clarification	Justification	Response
259	38	13. Functional and Technical Specifications:- 1.5.1...10	<p>The equipment will be equipped with one centralized fabric that performs connections at ODUk(=0, 1, 2, 3, 4, flex) level.</p> <p>The OCh switching should support Directionless and Color less configuration and the vender should depict the configuration with schematic diagram.</p>	OCH & ODUk switching fabric is feasible at Transponder/Muxponder level then why need centralized fabric , Please clarify.		As per RFP, Bidder has to comply in a proposed solution
260	38-39	13. Functional and Technical Specifications:- 1.6.1...3	<p>The equipment must support clock recovery from GE(GFP-T)/GE/10GE LAN/40GE/100GE interface.</p> <p>The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2 BC with ToD interface, please indicate the detail of time synchronization including electrical specification, networking, etc.</p>	Please clarify & explain the synchronous requirement at DWDM network level.		As per RFP, Bidder has to comply in a proposed solution

Corrigendum/Revised Clause/Clarification.

- Workshop will be held on 3rd and 4th Nov 2023. Bidder/OEM is required to submit the Eligibility criteria document on or before 30/10/2023 05:00 PM.
- Terms of payment table of page no 42 section no 19 is revised as per below.

Sr No	Milestone	Deliverables	Invoice submission frequency	Payment Terms
1	Supply of Items by SI	- Delivery Challan - Invoice Copy - 10 years warranty certificate issued by respective OEMs for each hardware	As and when material is received in batches within timeline of 90 days	20% of total CAPEX value of supplied equipment in a respective batch
2	Installation and configuration of supplied equipment to complete backhaul upgrade as per scope of work of this RFP	Installation Report & UAT Report. EMS Visibility. Live Traffic migration atleast for a 1 week.`	Fortnightly	20% of total value of material installed at various sites as derived from the certified installed quantity and unit price discovered in priced BOQ.
3	Completion of first cooling period of 90 days	Integration of supplied EMS with GFGNL's existing NMS. Successful integration of inventory API in NMS, Node visibility along with operational status. Resolution of any technical and functional punch point/issues as raised by GFGNL team. Achieved SLA as defined in RFP	At the end of cooling period for respective invoices submitted against payment milestone 2	15% of total value of material installed at various sites as derived from the certified installed quantity and unit price discovered in priced BOQ.
4	Completion of second cooling period of 90 days	Successful integration of performance parameter API in NMS.	At the end of cooling period for respective invoices submitted against payment milestone 2. post completion of complete	15% of total value of material installed at various sites as derived from the certified installed quantity and unit price discovered in priced BOQ.

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Sr No	Milestone	Deliverables	Invoice submission frequency	Payment Terms																								
		Resolution of any technical and functional punch point/issues as raised by GFGNL team. Achieved SLA as defined in RFP. Successful HOTO completion and issuance of Go-Live	network migration to new solution with minimum one month traffic working on network																									
5	Providing Comprehensive Warranty for 10 Years	Meet the expectation of section 12.5 subclause v for SLA for the Hardware/Service component:	At the end of each year post go-live for 10 years.	<table border="1"> <thead> <tr> <th data-bbox="1369 511 1499 581">Year</th> <th data-bbox="1499 511 1780 581">Payment Percentage</th> </tr> </thead> <tbody> <tr><td data-bbox="1369 581 1499 630">1</td><td data-bbox="1499 581 1780 630">2</td></tr> <tr><td data-bbox="1369 630 1499 678">2</td><td data-bbox="1499 630 1780 678">2.25</td></tr> <tr><td data-bbox="1369 678 1499 727">3</td><td data-bbox="1499 678 1780 727">2.5</td></tr> <tr><td data-bbox="1369 727 1499 776">4</td><td data-bbox="1499 727 1780 776">2.75</td></tr> <tr><td data-bbox="1369 776 1499 824">5</td><td data-bbox="1499 776 1780 824">3</td></tr> <tr><td data-bbox="1369 824 1499 873">6</td><td data-bbox="1499 824 1780 873">3.5</td></tr> <tr><td data-bbox="1369 873 1499 922">7</td><td data-bbox="1499 873 1780 922">3.5</td></tr> <tr><td data-bbox="1369 922 1499 971">8</td><td data-bbox="1499 922 1780 971">3.5</td></tr> <tr><td data-bbox="1369 971 1499 1019">9</td><td data-bbox="1499 971 1780 1019">3.5</td></tr> <tr><td data-bbox="1369 1019 1499 1052">10</td><td data-bbox="1499 1019 1780 1052">3.5</td></tr> </tbody> </table>	Year	Payment Percentage	1	2	2	2.25	3	2.5	4	2.75	5	3	6	3.5	7	3.5	8	3.5	9	3.5	10	3.5		
Year	Payment Percentage																											
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Corrigendum/Revised Clause/Clarification.

Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification
1	12.3	Bidder is required to provide the Comprehensive Onsite upfront replacement & warranty of during entire life cycle of this contract or minimum 10 Years whichever is higher	Bidder is required to provide the Comprehensive Onsite upfront replacement & warranty of existing component if used and new component during entire life cycle of this contract or minimum 10 Years whichever is higher. Bidder needs to mentioned the Installation, commissioning, Testing and warranty cost of existing component which they plan to use, in detailed Bill of material submitted in technical bid and price bid.
2	1.1 Technical specification	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of 0oC to 70oC to sustain operation during outage, 5% to 85% Relative Humidity	Equipment shall run on DC input voltage in the range of -42V DC to-60V DC. and shall operate at ambient temperatures in the range of '-5 °C to +55 °C to sustain operation during outage, 5% to 85% Relative Humidity
3	Functional requirement clause 4	Existing GFGNL TC(Taluka Centre),DC(District Centre) are also in	Only TC-DC locations on annexure route as mentioned in Clause - 13.A-5 are to be considered in Bidder's scope. The Bandwidth delivery requirements at each TC-DC locations will be in same fashion as of

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Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification
		bidder scope irrespective of functional requirement of network upgradation	OLT as mentioned in RFP with considering requirement of 100 G (upgradable to 400 G in future) for the annexure path. Bidder may attend workshop to understand scope as per current network architecture.
4	Eligibility Criteria clause 4	<p>Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 32 crores/ Two Project having minimum 20 Cr/ Three Project having minimum 16 Cr having components like OTN/DWDM/MPLS Router (Not less than 40% of the project value consist of these active components) in last five years as on date of bid submission Work Order should have been issued in last five years as on date of bid submission.</p> <p>For completed projects : Go-live certificate should be provided. For ongoing projects : Client certificate should be provided clearly mentioning worth of completed work for active components.</p>	<p>Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 16 crores/ Two Project having minimum 12 Cr/ Three Project having minimum 8 Cr having components like OTN/DWDM/MPLS Router in last five years as on date of bid submission. Work Order should have been issued in last five years as on date of bid submission.</p> <p>For completed projects : Go-live certificate should be provided.</p> <p>For ongoing projects : Client certificate should be provided clearly mentioning worth of completed work for asked components. "</p>
5	Technical Evaluation Criteria	Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 32 Cr / 2 Project of similar Nature having minimum cost of 20 Cr/ Three Project of similar Nature having	Bidder Should have executed at least one (1) Networking Projects with Supply, Installation, Testing, Commissioning (SITC) of minimum value of Rs. 16 Cr / 2 Project of similar Nature having minimum cost of 12 Cr/ Three Project of similar Nature having minimum cost of 8 Cr. , having components like OTN/DWDM/MPLS Router in last

Request for Proposal (RFP) for Selection of Agency for Supply, Installation and Commissioning to upgrade backhaul network of GFGNL

Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification
		minimum cost of 16 Cr. , having components like OTN/DWDM/MPLS Router/ (with minimum 40 % of these active components) in last five years as on date of bid submission. As per PQ criteria number 4. For each Project worth ≥ 32 Cr: 20 Marks For each set of 2 projects worth ≥ 20 Cr: 20 Marks For each set of 3 projects worth ≥ 16 Cr: 20 Marks	five years as on date of bid submission. As per PQ criteria number 4. For each Project worth ≥ 16 Cr: 20 Marks For each set of 2 projects worth ≥ 12 Cr: 15 Marks For each set of 3 projects worth ≥ 8 Cr: 10 Marks
6	Eligibility criteria clause 5	OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order.	OEM should have supplied minimum 250 numbers OTN/DWDM equipments in last 3 years as on date of bid submission in single order. Order may be considered in phase manner for single customer in asked time period.
7	Functional requirement point no 1	The bidder should make sure to Propose New network Solution with consideration to provide dedicated 2 Gbps bandwidth at each OLT from SDC. Existing network is built to provide dedicated 250 Mbps bandwidth at each OLT from SDC.	The bidder should make sure to Propose New network Solution with consideration to provide dedicated 2 Gbps bandwidth in ring architecture with protection (Scalable to 10Gbps in ring architecture with protection) at each OLT from SDC. Existing network is built to provide dedicated 250 Mbps bandwidth at each OLT in ring architecture from SDC.
8	12.5 V SLA for the Hardware/Service component clause 1	Onsite warranty Support	Comprehensive Onsite warranty :Performance Indicator : Comprehensive Onsite warranty Repair/Return/Replace, Service Level Metric:

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Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification
			<p>bidder should repair and return or replace the faulty component/equipment within 7 days of fault reported on 365X24X7 basis including holiday. Bidder is required to provide the Comprehensive Onsite upfront replacement & warranty of existing component if used and new component during entire life cycle of this contract or minimum 10 Years whichever is higher.</p> <p>support including minimum 10 Years of EoL for all hardware parts supplied by the bidder. If any part/component is found defective during the contract period, the successful Bidder shall repair/return/replace the defective device within the maximum rectification time permitted above to avoid penalty.</p> <p>Penalty on breach of Service Level : 10% of faulty component cost per week up to 5 week, Beyond 5 week tenderer may procure the equipment and deduct the procured cost along with above penalty from PBG/Bidder payables.</p>
9	Technical Bid	Phase wise upgradation plan from 2 Gbps to 10 Gbps with detailed Bill of Material mentioning all sub, Main Component including accessories with part code and description.	<ul style="list-style-type: none"> ➤ Phase wise Upgradation plan: Bidders need to provide Phase wise upgradation plan from 2 Gbps to 10 Gbps (From 2Gbps to 6Gbps, From 6Gbps to 10 Gbps) with detailed Bill of Material mentioning all sub, Main Component including accessories with part code and description in technical bid without price .Most upgradation component part code should be from 2Gbps Bill of material.
10	Priced Boq	Additional point	<ul style="list-style-type: none"> ➤ Phase wise Upgradation plan: Bidders need to provide Phase wise upgradation plan from

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Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification
			<p>2 Gbps to 10 Gbps (From 2Gbps to 6Gbps, From 6Gbps to 10 Gbps) with detailed Bill of Material mentioning all sub, Main Component including accessories with part code and description in financial bid (Physically sealed envelope) with price. Most upgradation component part code should be from 2Gbps Bill of material. If Bidder's proposed price for upgradation is not justified, then tenderer may barred the selected bidder and cancel the bid.</p>
11	Eligibility criteria	Additional clause	<p>The Bidder should have valid ISO 9001:2008/ ISO 9001:2015 for Quality Management System which should be valid as on bid submission date</p>
12	Workshop Participation eligibility Criteria	<p>I GFGNL will host a common workshop/meeting after pre-bid meeting with interested bidder (maximum 1/2 members of each bidder) for 1/2 days who has submitted NDA signoff , workshop participation Fees and Undertaking on Compliance of Workshop Eligibility Criteria on company letter head 2 days before of workshop date at GFGNL Office, Gandhinagar.. Extension of the workshop is solely at discretion of GFGNL</p> <p>II Only company authorized representative having authorization</p>	<p>I. GFGNL will host a common workshop/meeting after pre-bid meeting with interested bidder/OEM (maximum 1/2 members of each bidder) for 1/2 days who has submitted NDA signoff, workshop participation Fees and Undertaking on Compliance of Workshop Eligibility Criteria on company letter head 2 days before of workshop date at GFGNL Office, Gandhinagar. Extension of the workshop is solely at discretion of GFGNL</p> <p>II. Only company authorized representative having authorization letter shall be allowed to attend the workshop</p> <p>III. Bidder/OEM must fulfill the Workshop participation eligibility Criteria.</p>

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Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification		
		letter shall be allowed to attend the workshop. III Bidder must fulfill the below Workshop participation eligibility Criteria. IV Attending workshop is mandatory, Those Bidders, who are not attending workshop will not be eligible for this bidding process.	IV. Attending workshop is mandatory to be eligible for bidding process.		
13	Workshop Participation eligibility Criteria for OEM	Additional clause	Sr No	Eligibility Criteria	Supporting Documents to be furnished
			1	OEM should have supplied minimum 250 numbers OTN/DWDM equipment in last 3 years as on date of bid submission in single order.	Copies of work order, Delivery challan
			2	The OEM of proposed solution from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with Competent Authority as per OM No. 6/18/2019-PPD dated 23rd July 2020 issued by Department of Expenditure, GoI	Self-certification from OEM and OEMs on Non-Judicial stamp of Rs. 300/- in the prescribed format (Annexure – XII, XIII), separately
			3	The OEM should have total annual turnover of Rs 120 Cr in the last five financial	Certificate from the Statutory

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Sr. No	Clause/ Sub-clause no	Original Clause	Revised Clause/Clarification	
				auditor/ CA clearly specifying the annual turnover for the specified years along with audited balance sheet of the bidding entity.
			4 OEM Should Not have been blacklisted by Central Government /Any State Government / Urban Local Body (ULB) / SPV/ PSU in India as on the date of bid submission	Declaration letter by OEM as per the format given in the RFP document
14	Bid End Date/Time	16-10-2023 14:00:00 Hrs	18-11-2023 14:00 Hrs.	

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➤ Format for Power of Attorney executed in favor of the Authorized Signature:

It is clarified that the Bidder may submit the Power of Attorney in their own format clearly stating that the person is authorized to sign on behalf of the bidder. It is also clarified that the "Letter of Authorization" is to be read as "Power of Attorney".

[To be executed on stamp paper of appropriate value] Know all men by these presents, We, [Insert full legal name of the bidding entity], having registered office at [Insert registered office address] (hereinafter referred to as the "Principal") do hereby constitute, nominate, appoint and authorize [Insert full name of authorized signatory] son of [Insert father's name] presently residing at [Insert address of authorized signatory] who is presently employed with us and holding the position of [Insert position/ designation of the authorized signatory] as our true and lawful attorney (hereinafter referred to as the "Authorized Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to the submission of our proposal in response to the RFP bearing number _____ for '<RFP Name>' dated _____, including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in pre-Bid and other conferences and providing information/ responses to the GFGNL backhaul Project in all contracts and undertakings/ declarations consequent to acceptance of our Proposal and generally dealing with the GFGNL in all matters in connection with or relating to or arising out of our Proposal for the said assignment and/ or upon award thereof to us till the execution of appropriate Agreement/s with the authority AND, we do hereby agree to ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Authorized Attorney pursuant to and in exercise of the powers conferred by this deed of Power of Attorney and that all acts, deeds and things done by our said Authorized Attorney in exercise of the powers hereby conferred shall always be deemed to have been done by us.

IN WITNESS THEREOF WE, _____ THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF, 2023

For _____

(Signature, name, designation and address)

[Please put company seal if required]

[Notarize the signatures]

Witness 1: Witness 2:

Name:

Designation:

Address:

Signature: Name:

Designation:

Address:

Signature:

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