

Corrigendum-VI

**RFP for Selection of Project Implementing Agency for BharatNet Phase-III Project in Gujarat under GFGNL
(Design, Construction, Supply, Implementation, Testing & Commissioning and Operation & Management Model)**

Issued by:
Gujarat Fibre Grid Network Limited
Reference No: GFGNL/GFG/e -file/263/2025/0006/Phase-III (ABP in Gujarat)

16th April 2025



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

v) FACT SHEET

#	Particular	Details
9.	Last date for submission of Bid/proposal	28/02/2025 21/03/2025 02/04/2025 08/04/2025, 17/04/2025, 22/04/2025 at 06:10 pm 03:00 pm

Notes:

1. This is the last extension for the bid submission, and no further extension request will be addressed. Bidder are requested to ensure timely submission of the bid.
2. The time is essence. The potential bidders have been given sufficient opportunity and have also been responded. All potential bidders are advice to prepare participation without further representation to avoid inordinate delay in this mission critical project.

Query Responses:

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
1	Section 6	Section 6.2	-	Payment Terms	<p>For maintaining cash flow and effective operation of the project, we request you to consider below payment terms.</p> <p>i.) 15% of capex value as Advance within 15 days of award of PO</p> <p>ii.) 50% of Value on Draw (Fiber route laying) and Discovery (GP equipment visibility) for GP and Revenue villages activities defined in Milestone 2 in RFP.</p> <p>iii.) 20% of Value on Sub-block to Sub-block Ring closure for GP and Revenue villages activities in Milestone 3 in RFP.</p> <p>iv.) 10% of Value on GP ring closure and Service testing / Partial Go-Live For Phase-I & II and activities defined in Milestone 4 in the RFP.</p> <p>v.) 5% of Value on Inspection and end deliverables of the project and activities defined in Milestone 5 in the RFP.</p>	PI see revision

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2	Section 4	Section 4.21 (ii)	-	Date of commissioning for block & GP routers and associated hardware will be taken as the date on which 90% of the GPs of a block , including block router is visible in state NoC NMS, The warranty shall start from 1st day on next calender quarter (i.e., 1st jan / 1st apr / 1st jul / 1st oct) from date of commissioning . for rest of such equipment commissioned after the achievement of mile stone as above, the warranty shall start from 1st day on next calender quarter (i.e., 1st jan / 1st apr / 1st jul / 1st oct) from date of commissioning of all remaining routers and associated hardware of the block .	<p>We request you to add the below to the clause:</p> <p>In case 90% GPs in ablock are not commissioned due to reason not attributable to contractor/bidder then warranty for respective GPs shall commence on standalone commisioning of GP.</p>	90% GPs are taken as a milestone considering the exclusion for 10% of the cases which may be beyond control of the PIA. Hence, relaxation for field conditions already been considered.
3	10	7 (pg. 81)	-If any defect is not remedied by the supplier within a reasonable time, the Purchaser may proceed to get the defects remedied from other supplier/contractor/PIA etc., at the supplier's risk and expenses, but without prejudice to any other rights which the purchaser may have	The condition that GFGNL reserves the right to remedied the defects at the risk and cost of the defaulting vendor actually puts the vendor in UNLIMITED/UNCAPPED RISK, As there are multiple penalties already applicable, it is requested that the said clause may be removed.	It is already aligned with the central RFP of BSNL.

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				against the PIA/supplier in respect of such defects.		
4	4	4.33 X (pg. 87)	-	In the event GFGNL on behalf of DIGITAL BHARAT NIDHI(DBN), DoT terminates the contract in whole or in part, GFGNL on behalf of DIGITAL BHARAT NIDHI(DBN), DoT may procure, upon such terms and in such manner as it deems appropriate, works similar to those undelivered and the Contractor shall be liable to GFGNL on behalf of DIGITAL BHARAT NIDHI(DBN), DoT for any excess cost for such similar works. However, the Contractor shall continue the performance of the contract to the extent not terminated.	The condition that GFGNL reserves the right to remedied the defects at the risk and cost of the defaulting vendor actually puts the vendor in UNLIMITED/UNCAPPED RISK, As there are multiple penalties already applicable, it is requested that the said clause may be removed.	It is already aligned with the central RFP of BSNL.
5	Appendix 1	4.1, 4.2, 5.1, 6, 7, 10 (pg. 105....)	-	Failure to supply and/ or Commission the equipment and /or execution of the work at all even in extended delivery schedules, if granted against PO/ WO	We request GFGNL to kindly revise the clauses with the essence of keeping the context as : Defaults by the vendor in the performance of its delivery obligations shall render the vendor liable to the following:- - Short closure of the contract in part or full and/ or termination of	It is already aligned with the central RFP of BSNL.

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					the contract for default after serving a notice of 30 days to the vendor to cure the defect. Further the vendor shall not be liable for cost for replacement services in any event and only applicable penalties agreed under the agreement will be deducted.	
6	(Revised RFP) Technical specification of OFC	OFC Minimum specification Page 327/ 487	-	Aerial : 24F ADSS unarmored cable Under Ground: ITU-T- G.657 (G.657A1) (TEC GR Standard No.: TEC 85260:2024 with latest amendment if any)	For UG Ribbon armoured cable, use of G.657A1 fibre is mentioned exclusively while it is not mentioned for UG LT Armoured cable as well as ADSS cable. We understand that 24F LT Armoured cable and 24F ADSS cable will be with G.652D fibre with G..657A1 property.	yes correct.PI see Revision
7	SECTION-10 SPECIAL TECHNICAL CONDITIONS	XI. (Page-2)	-	Security Management Environment Requirements	AES256 (Suggested Amendment AES128/AES 256) Suggested Amendment 9000 bytes/3200 Byte) Temp Amendment (-40 to 55)	For Wider Competition, following is allowed. AES256 (Suggested Amendment AES128/AES 256) Temp Amendment (-10 to 55)
8	SECTION-9 ANNEXURES & FORMATS	9.19 Format- XVIII- Check list, pg. no. 296	-	Non-Relation Certificate duly signed by all Directors of Company	please provide Non-Relation Certificate format	Please refer details in section 4.61, However same has been reproduce here for reference again,"d. The format of the certificate to be given is "I.....s/o..... ...r/o hereby certify that none of my relative(s)

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						as defined in the tender document is/ are employed in GFGNL unit as per details given in tender document. In case at any stage, it is found that the information given by me is false/ incorrect, GFGNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me."
9	SECTION-3 ELIGIBILITY CRITERIA	Pt 3 Experinece List of Document subiited in case of ongoing project Pg 54	-	Performance certificate from end client mentioning satisfactory performance & total Km of Fibre with other inventories/Equipment mentioned implemented by the Sole/lead Bidder(in case of consortium)	There is a typo error it should read as : Performance certificate from end client mentioning satisfactory performance & total Km of Fibre with other inventories/Equipment mentioned implemented by the any partner of consortium(in case of consortium)	PI see Revision.
10	Eloigiblity Pt 3 Appexdix A Pg 59	Appexdix A Table-02 For Lead Bidder and Consortium	-	Total Experience Of OFC Project(Km) Consortium Partner and/or Lead Bidder : 8,000 Km or OFC Project order value Rs. 500 Cr up to max two(2) multiple orders	We undertand that it means either bidder to have 8000kms OFC or 2 projects having OFC into scope of work	Please see released Master RFP for clarification

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11	25. PIA shall follow the fiberization Principles for Phase-II network as stated below	3. Access corridor (Subblock to GP) - Page 139 of 487	-	Access corridor (Subblock to GP) - Fiber topology (Termination/Spare) : 12F cores to be terminated in FDMS at GP in each path. Rest of available fiber (min 24F or above) to be remain spare end to end after utilizing in network topology	<p>Please confirm if our understanding is correct.</p> <p>Scenario 1 - If we have three GP in a ring and One Block to block ring, in that case we need to consider 3*48 F for GP route and 1*48 F for Block route.</p> <p>Scenario 2 - If there is a common path between three rings,</p> <p>a. In that case fiber requirement for common path shall be 1* 144 F i.e. 1*48F for each ring separately,</p> <p>or</p> <p>b. 1*48 F laid already can be utilised for common path and only additional fiber required for completing the ring need to be considered by the bidder.</p> <p>Kindly confirm</p>	Kindly refer the fibre design principles
12	28. Network Design	Category-1: Access Layer (Gram Panchayat to Sub-Block), Page 143 of 487	-	<p>Note:</p> <p>For Village Connectivity:</p> <p>— UPS with batteries having 2 Hrs of power backup.</p> <p>— ONT, Equipments for alternate technologies for Village connectivity's(FSO/UBR), L2 Switch</p>	We understand that L2 switch is required only at Revenue Villages and same is not to be supplied at GPs. Please confirm.	Yes as per clarification sought.

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13	-	5.5	56	<p>Mandatory Undertaking</p> <p>5.5 There must not be any criminal case booked by any Government authority against the sole and any of the consortium members in any court in last 5 years as on bid submission date.</p>	<p>Mandatory Undertaking</p> <p>5.5 The Sole Bidder or any member of the Consortium should not be convicted for any criminal case in any court in India in the last 5 years as on submission date.</p> <p>Documentary Proof: An undertaking signed by CEO/Country Head/Authorized Signatory of the company to be provided on Non-judicial stamp paper of INR 100/- or such equivalent amount and document duly attested by notary public. (or Self-declaration by the Bidder duly signed and stamped by the authorized signatory)</p>	<p>PI see revision.</p> <p><u>Updated Clause:</u> The bidding entity(sole bidder or any of the consortium member) must not have been found guilty of any criminal offence by any court of law, in the last five (5) years</p>
14	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1	-	For ongoing projects- WO date must be earlier than one (1) year from bid released date(excluding bid released date).	For on going project - WO date must before 3 months from bid released date(excluding bid released date) .	PI see Revision.
15	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1	-	Note-6: If any project has been executed in the consortium, the lead bidder and the consortium partners can use the same project experience for qualification individually, if not participating as the partner of same consortium. If they are participating as the consortium partners, then	<p>Documentary proof - If any project taken in consortium and executed by Lead Bidder . Then as per Note : 6 Clause Consortium member can use the credential formed bby the consortium after completion of project . For which as a documentary consortium will furnish below document .</p> <p>1.Consortium Deed. 2.Master Service Agreement / MOU</p>	<p>Please refer the last corrigendum. However, Clause is reproduced herewith.</p> <p><u>Clause on documentry proof:</u> In case of consortium, valid documentation/copy with notarized MoU between lead and consortium member/s with roles and responsibilities of</p>

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				the experience shall be considered only once. However, other than consortium experience, the experience from any type of joint execution, like "teaming agreement, sub-contracting (including any EPC partnerships), backend partnership" shall not be considered.	3. Project Go live Certificate 4.Experience certificate issued in the name of Lead Bidder or Consortium name .	members with legitimate evidence for claimed experience from client.
16	3 -SECTION-3 ELIGIBILITY CRITERIA	Appendix A	-	#Table-02 For Lead Bidder and Consortium 8,000 Km (with maximum two(2) orders in last 10 years)* or OFC Project order value Rs. 500 Cr up to max two(2) orders in last 10 years	Documentary proof for OFC work experience completed by IP1 company signed MSA(Master service agreement) with TSP / ISP having multiple routes and time to releasing their PO after execution. MSA , LOI and PO copies to be consider.	PI see revision

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17	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1 Note 1 -	-	<p>Notes:1</p> <p>I. The eligibility criteria mentioned in above table are applicable to both package-A & B.</p> <p>II. The Bidder may quote two MAF clearly stating primary MAF and secondary MAF. It is binding on the bidder to supply quoted products from primary MAF only. The purpose of secondary MAF is backup arrangement can be exercised upon written request from PIA in following circumstances only. The any other reason for change request will not be admissible.</p> <ul style="list-style-type: none"> • Insolvency • Force-majure <p>III. The PIA may mis-use the above provision and may have financial interest for change request.</p> <p>Therefore and to discourage casual intend a special provision is made herewith that the change request is to be made with demand draft of Rs.</p>	<p>Instead of GP capex , percentage should be of financial saving obtained by PIA Changing the OEM .</p>	<p>We want to discourage the change request for this.</p>

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				<p>10Lakhs in the name of "Gujarat Fibre Grid Network Limited" and following deduction on the discovered rates under this RFP.</p> <p>i) OFC or duct - 2% of remaining per GP capex</p> <p>ii) Router or RFMS or UPS - 1% of remaining per GP capex</p> <p>iii) Other each Item related to GP - 0.25% of remaining cost per GP capex</p> <p>iv) Other each item related to villages - 2% of remaining per Village capex</p>		

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18	IV Tech. Specs of router - Minimum Specifications for IP-MPLS at GP Router - point 15	-	-	Request you to please add the following mandatory clauses to support automated SDN " The router should support Segment Routing (SR) with all standard features such as Segment routing traffic engineering SR-TE, SR Polices, SR-PCE, PCEP, BGP LS for SDN controller based provisioning and SR - ODN for automated policy aware traffic managemnet etc	SR-PCE, PCEP, BGP LS for SDN controller based provisioning and SR -ODN for automated policy aware traffic managemnet	As per RFP
19	IV Tech. Specs of router - Minimum Specifications for IP-MPLS at Block Router - point 15	-	-	Request you to please add the following mandatory clauses to support automated SDN " The router should support Segment Routing (SR) with all standard features such as Segment routing traffic engineering SR-TE, SR Polices, SR-PCE, PCEP, BGP LS for SDN controller based provisioning and SR - ODN for automated policy aware traffic managemnet etc	SR-PCE, PCEP, BGP LS for SDN controller based provisioning and SR -ODN for automated policy aware traffic managemnet	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
20	-	-	-	Requesting GFGNL to provide us an approximate breakup in percentage for the 2 types of routers.	For better understanding of the requirement	The bid is on EPC model for blending, creativity of private sectors in designing, and cost optimization, for ease of doing

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				Eg: 80% 40 Gbps and 20% 80 Gbps router		business and high network uptime.
21	Type A & B Block router	-	-	The block router specifications only specify the ports / capacity requirement. There is no design based calculation as to the traffic that will be handled by the particular device. Requesting GFGNL to clarify how it will ensure while evaluation whether the quoted device is suitable to be deployed as master block router.	The backhaul RFP is a design / solution based RFP and the core routers are determined based on the min port requirement plus the traffic that it will cater. But the Phase III RFP is only a device based RFP. Hence requesting for clarification	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
22	Type C & D GP router	-	-	Pls modify as " The fixed integrated chassis, should have redundant power supply and should be reliable (MTBF > than 70000 as specified in QM-115 or equivalent)"	These (fixed) are small access routers which need to operate at 50-70 W power supply in rugged conditions. Adding any modularity to these fixed boxes will result in chances of increased failures. IN market (40/80 Gbps) no vendors have control plane redundancy. Hence requesting GFGNL to consider the suggested change	The control plane redundancy is optional. However, if any OEM will provide control-plane redundancy, then it will consider for higher score as part of better quality product.
23	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1	-	iii) For Active Equipment's Experience: Experience of Telecommunication equipment installation, commissioning with AMC /warranty or O&M of at least- as per table details mentioned in Appendix #	As per our understanding,bidder must have either of the one: 1) Experience of Telecommunication equipment installation, commissioning with AMC /warranty of at least- as per table details mentioned in Appendix # A. Or 2) Experience of	Pl see revision

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				A. The active nodes to be considered for this criterion can be Routers, Layer-3 Switches, BNGs, PTNs/CPANs, DWDM, OLTs of 16 or more ports, enode-B, BTS and OTN.	Telecommunication equipment O&M of at least- as per table details mentioned in Appendix # A.	
24	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1	-	For ongoing projects- WO date must be earlier than one (1) year from bid released date(excluding bid released date).	For on going project kindly consider work order date earlier than 3 months from bid submission date.	PI see revision
25	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1	-	Note-6: If any project has been executed in the consortium, the lead bidder and the consortium partners can use the same project experience for qualification individually, if not participating as the partner of same consortium. If they are participating as the consortium partners, then the experience shall be considered only once. However, other than consortium experience, the experience from any type of joint execution, like "teaming agreement, sub-contracting (including any EPC partnerships), backend partnership"	<p>Documentary proof for note 6.</p> <p>In documentary proof kindly add below documents for better clarity ;-</p> <p>In case of consortium, valid documentation/copy with notarized MoU/Consortium deed between lead and consortium member/s , MSA (Master service agreement , project go live certificate and Experience certificate issued in the name of Lead Bidder or consortium member and CA certificate certifying all mentioned documents .</p> <p>Please consider deletion of roles and responsibilities of consortium members from below clause " In case of consortium, valid documentation/copy with</p>	The Purpose is to understand the nature of the experience.

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				<p>shall not be considered. The Experience counted once of any entity can not be counted again, in case, participating in multipackage. The bidder has to clearly mention package wise distinct experience for claiming eligibility. The objective is to count distinct experience. In other words, already counted experience can not be consider again.</p> <p>In case of consortium, valid documentation/copy with notarized MoU between lead and consortium member/s with roles and responsibilities of members with end customer Work completion certificate (WCC)</p>	<p>notarized MoU between lead and consortium member/s with roles and responsibilities of members with end customer Work completion certificate (WCC) "</p>	

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26	3 -SECTION-3 ELIGIBILITY CRITERIA	Experience Of OFC Project (Km) Appendix A-Page 62	-	<p>Note-7 The above experience conditions can be met either through single project or multiple projects executed during last 10 years as on date of submission of bid.</p> <p>#Table-02 Total Experience Of OFC Project(Km) Consortium Partner and/or Lead Bidder</p> <p>8,000 Km (with maximum two(2) orders in last 10 years) *or OFC Project order value Rs. 500 Cr up to max two(2) multiple orders in last 10 years</p> <p>5,000 Km (with maximum two(2) orders in last 10 years)* of OFC O&M or order value Rs. 25 Cr up to max two(2) multiple orders in last 10 years</p> <p>*by submission of valid</p>	<p>OFC Experience with O&M under IP1 -</p> <p>As per our understanding for note 7 - The OFC experiance mentioned at Table 02 can be met by Single project or Multiple project having multiple purchase orders in last 10 yeras under same project supported with Master service agreement with TSP/ISP centrally/coporate office ,LOI , Purchase orders and Work complition certificate from client.</p> <p>Please consider deletion of (with maximum two (2) order) from below clause: #Table-02 Total Experience Of OFC Project(Km) Consortium Partner and/or Lead Bidder 8,000 Km (with maximum two(2) orders in last 10 years) *or OFC Project order value Rs. 500 Cr up to max two(2) multiple orders in last 10 years</p> <p>5,000 Km (with maximum two(2) orders in last 10 years)* of OFC O&M or order value Rs. 25 Cr up to max two(2) multiple orders in last 10 years</p> <p>Reason for requesting above changes as most of the TSP is circle based books and they place work order from Circles</p>	<p>PI see revision.Our intend is to align with the standard practices in telecom industry for awarding OFC work in private and public sector for wider competetions.</p>

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				documentation of same project on various deliverable will be considered.	based on business projection & Project requirement.	
27	Disclaimer - Fact Sheet	-	19	Contract Duration : 10 Years (3 Years of Implementation (As per Project timeline section), 10 Years of Operation and Maintenance) from the date of assigning work order	We understand that the Project envisages 3 years of implementation followed by 7 years of O&M. Please confirm our understanding.	Clause is self explanatory

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28	SECTION-3 ELIGIBILITY CRITERIA	-	53	2.2 The Sole or (lead bidder and each of consortium members) must have atleast 15% positive net worth against their financial turnover in last three (3) financial years (i.e., FY 2021-22, FY 2022-23, and FY 2023-24).	As per Tender- 15% positive net worth is required from <u>companies' financial turnover</u> whereas it should be 15% of Turnover Eligibility. However HFCL qualifies the requirement both ways as per the certificate submitted in BSNL BharatNet.	PI see revision
29	SECTION-3 ELIGIBILITY CRITERIA	-	55	Experience: i) For Optical Fibre , ii) For OFC O&M Experience,	In the tender document, the period of O&M is not mentioned for OFC construction Experience . Please mention the period of O&M required for the OFC Construction experience criteria.	Corrected the missing duration. PI see revision
30	SECTION-3 ELIGIBILITY CRITERIA	-	55	Experience: iii) For Active Equipment Experience: Experience of Telecommunication equipment installation, commissioning with AMC /warranty or O&M of at least- as per table details mentioned in Appendix # A	Since different wording is used at various places for this experience, for clarity, We understand that for active equipment experience, only installation & commissioning of Telecommunication equipment shall be required for satisfying this criteria or as alternate bidder should have experience of O&M of required number of equipments . Please clarify	For clarification PI see the clause herewith: For Active Equipment Experience: Experience of Telecommunication equipment installation, commissioning with AMC /warranty or O&M of as per table details mentioned in Appendix # A
31	SECTION-3 ELIGIBILITY CRITERIA	-	57	Note:4 For installation and commissioning of active nodes, the experience certificate issued by the OEMs for the works awarded by the TSPs to the OEMs shall also be considered.	-	Query not clear

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32	Appendix A	-	61	D) For Active Equipment's Experience (Numbers)		Query not clear
33	VII	-	63	<p>VIII.</p> <p>For OFC:</p> <p>a. Against the requirement of TSEC/ QF-103 of 48F ribbon type armored OFC, bidders may also submit copy of TSEC of 48F or more Fibre Loose Tube Type Armored cable and 48F or more Fibre Ribbon type unarmored cable to meet the eligibility for submitting the bid only. However, the PIA/ OEM shall submit the valid TSEC as per the TEC GR/ Standard No.: TEC 85260:2024 with latest amendment, before supply of the OFC.</p> <p>b. Against the requirement of TSEC/ QF-103 of 24F ADSS Cable, bidders may also submit copy of TSEC/ QF-103 of 24F or more Fiber ADSS Cable to meet the eligibility for submitting the bid only.</p> <p>c. For the Armored Optical Fibre Cable for underground application (24F loose tube), latest TEC Standard Number- TEC 85170:2024 shall be applicable. However, bidders may submit copy</p>	<p>We understand that there are 3 types of cable required for this project as below & we need to submit QF103/ TSEC for these 4 fiber counts only as an eligibility to participate in tender.</p> <ol style="list-style-type: none"> 1. 48F Armoured Ribbon OFC as per TEC 85260:2024 2. 24F LT Armoured as per TEC 85170:2024 3. 24F ADSS With power line type A-1 as per TEC 85190:2022 4. 6F ADSS for last mile connectivity as per TEC GR 85200:2022 	<p>Yes as per Clarification sought.PI see revision</p> <ol style="list-style-type: none"> 1. 48F Armoured Ribbon OFC as per TEC 85260:2024 2. 24F LT Armoured as per TEC 85170:2024 3. 24F ADSS With power line type A-1 as per TEC 85190:2022 4. 6F ADSS for last mile connectivity as per TEC GR 85200:2022 <p>However, the project is EPC, please refer the fibre design principles.</p>

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				of TSEC against the earlier TEC GR/ Standard No.- TEC 85170:2011 to meet the eligibility for submitting the bid only. Successful bidders shall obtain TSEC against the latest TEC Standard No. before supplies.		
34	SECTION-3 ELIGIBILITY CRITERIA	-	63	Note 2: Consortium Criteria: In case of a consortium, applicant consortia..... 6 (b) It also includes the commitment that each of the members, whose experience will be evaluated for the purposes of this RFP, shall discharge the obligations specified by the Bidder.	Meaning of the clause no. 6(b) on Tender page no. 63 is not understood. Please clarify. NOTE: Clause no. 6(b) is also not captured in Joint Bidding Agreement format given on Tender page no. 303.	Clause is self explanatory

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35	IX	-	64	<p>Exception in relation to OFC OEM eligibility: [SIGN OF BIDDER] Page 64 of 502</p> <p>a.24F/48F/96F armored cable: For OEM eligibility, the OEM has to meet one of the following eligibility: 1. Valid TSEC certificate for 48F/96F armored cable 2. "Applied for TSEC" for 48F/96F armored cable 3. Valid TSEC certificate for 24F armored cable 4. Valid TSEC certificate for ribbon OFC having more than 48F.</p> <p>b.48F/ 24F ADSS loose tube cable:For OEM eligibility, the OEM has to meet one of the following eligibility: 1.Valid TSEC certificate for 48F ADSS loose tube cable 2."Applied for TSEC" for 48F ADSS loose tube cable 3.Valid TSEC certificate for 24F ADSS loose tube cable 4.Valid TSEC certificate for ADSS loose tube cable having more than 24F.</p>	<p>Pleases confirm whether</p> <ol style="list-style-type: none"> 1. TSEC/QF103 against 96F Armoured Ribbon OFC as per TEC 85260:2024 is required or not 2. TSEC/QF103 against 48F ADSS WITH POWER LINE A-1 as per 85190:2022 is required or not 3. TSEC/QF103 against 24F Aerial Drop Optical Fibre Cable (For Last Mile Applications) as per 85200:2022 is required or not 	PI see precending response

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36	Section-IV Instruction to Bidders	-	73	4.7 BID SECURITY/ Earnest Money Deposit (EMD)	Requested to provide a provision for Insurance Surety Bond in lieu of EMD in the form of Bank Guarantee.	Pl see revision
37	Format of PBG	-	266	Format IV (PBG)	Requested to provide a provision for Insurance Surety Bond in lieu of PERFORMANCE BANK GUARANTEE	Refer the section 4.16 for better clarity
38	Format XVII - Check List	-	298	39. Price Bid in BoQ as per CPP Portal	The tender is available on "https://tender.nprocure.com" not on CPP Portal. Please clarify. BOQ is not given on nprocure Portal, please provide BOQ on nprocure Portal.	Apologize for Typo Error. Thanks for highlighting. Please refer the updated clause. Clause Removed: Price Bid in BoQ as per CPP Portal
39	II Annexure A- TEC-GR Standards list	-	336/168	Technical Specifications for OFC-Aerial: TEC 85200:2022 (Aerial Drop) (Loose tube with jelly compound & Water swellable tape / yarn) with latest amendment Aerial cable on Powerline: TEC 85190:2022 (Type-A-I semi dry Without Ice loading) with latest amendment	In Bharatnet Ph-III tender, for last mile connectivity as per TEC-GR 85200:2022 6F cable was required , same 6F requirement is mentioned on pg no 168 of RFP clause no 5.10.i. but pg 336 mentions about 24F as last mile requirement. Pls confirm whether 6F is required or 24F	For Last mile connectivity for villages 6F is required per GP with applicable TEC GR(TEC-GR 85200:2022).Please refer the updated clauses.
40	-	-	-	Minimum Specifications for IP-MPLS at GP and Block Router TEC/GR 48050:2024 Standard with latest amendments if any or	As per amended BharatNet Tender, the GP & Block Routers should comply to TEC GR 48050:2024 Category XV. All routers being in Aggregation category, we understand same is applicable here as well.	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
						interest of public money.
41	Annexure B	-	4-IV-1 Page 342	Compliance - TEC/GR 48050:2024 Standard with latest amendments if any or	As per amended BharatNet Tender, the GP & Block Routers should comply to TEC GR 48050:2024 Category XV. All routers being in Aggregation category, we understand same is applicable here as well.	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
42	Annexure B	-	4-IV-4 Page 345	For Switching capacity $\geq 300\text{Gbps}$ - 3 ports of 100G (Pluggable will be in scope of bidder as per solution design),	For a router with 300Gbps backplane, 3 ports of 100G will consume full capacity on uplink with no bandwidth for downlink ports. We request you to modify the clause to "2 ports of 100G (Pluggable will be in scope of bidder as per solution design)" instead of 3 ports of 100G.	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
43	Annexure B	-	4-IV-5 Page 346	Power supply and FAN redundancy	1+1 and Hot-swappable features of Power Supply & Fan redundancy are mandatory features as per latest TEC/GR 48050:2024 standard with latest amendments and we understand that these features are required to be complied with. Request you to kindly amend the clause.	RFP clause is revised here; "Solution equipment should have redundant power card and redundant 1+1 or N+1 fan modules or redundant fans in 1+1 or N+1 with a hot-swappable fan tray without affecting services shall be

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
						allowed for wider participation, those OEMs who are having problem in meeting hot-swappable requirement may provide high availability assurance with standard equipment MTBF (Greater than 70,000 hours as specified in QM-115 of TEC/GR 48050:2024 or equivalent international standard)"
44	SECTION-5 SCOPE OF WORK	-	-	Required details	Phase -2 Master Block to Master Block existing fiber details with Route length	Kindly Refer shared data based on submitted signed NDA.
45	SECTION-5 SCOPE OF WORK	-	-	Required details	Phase -1 Master Block to Master Block existing fiber details with Route length	Kindly Refer shared data based on submitted signed NDA.
46	SECTION-5 SCOPE OF WORK	-	-	Required details	District wise Block to Sub block Fiber length km-Phase-1	Kindly Refer shared data based on submitted signed NDA.
47	SECTION-5 SCOPE OF WORK	-	-	Required details	District wise Block to Sub block Fiber length km-Phase-2	Kindly Refer shared data based on submitted signed NDA.
48	SECTION-5 SCOPE OF WORK	-	-	Required details	O&M of DWDM Route and NLD is under this tender or not? Please clarify	Kindly Refer shared data based on submitted signed NDA.
49	SECTION-5 SCOPE OF WORK	-	-	Required details	Distt wise No of Master Block, sub Block, Taluka & GP location for Package A & Package B	Kindly Refer shared data based on submitted signed NDA.
50	SECTION-5 SCOPE OF WORK	-	-	Required details	Distt to Distt (Master Block to Master Block) existing fiber Kms with (Own+Lease)	Kindly Refer shared data based on submitted signed NDA.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
51	SECTION-5 SCOPE OF WORK	-	-	Required details	Block to Subblock RKM (Own+lease)	Kindly Refer shared data based on submitted signed NDA.
52	SECTION-5 SCOPE OF WORK	-	-	Required details	Distt wise/ Block wise Lease fiber Km which needs to be replaced with type of Existing Fiber (24/48/96F) Phase-1	Kindly Refer shared data based on submitted signed NDA.
53	SECTION-5 SCOPE OF WORK	-	-	Required details	Distt & Block will be connected on 48/96f Ribbon & GP ring will be on 24 F loose tube	Kindly Refer shared data based on submitted signed NDA.
54	SECTION-5 SCOPE OF WORK	-	-	Required details	Name & Lat long of Revenue villages & as per our understanding these revenue villages fall under existing GPs and same is already commisined in Ph-1 & Phase-2	Kindly Refer shared data based on submitted signed NDA.
55	SECTION-5 SCOPE OF WORK	-	-	Required details	Details of new GP where we need to lay OFC and Install infra including Router -As per our understanding Revenue Villages are not GP location, these revenue villages are extension of GP that to be connected on Overhead or Alternate Trechnology .	Kindly Refer shared data based on submitted signed NDA.
56	SECTION-5 SCOPE OF WORK	-	-	Required details	Name & Lat long of new GP ,Block and district ,which is not connected in Phase-1 & 2 & over & above	Kindly Refer shared data based on submitted signed NDA.
57	SECTION-5 SCOPE OF WORK	-	-	Required details	Dark fiber data for Package A & Package B	Kindly Refer shared data based on submitted signed NDA.
58	SECTION-5 SCOPE OF WORK	-	-	Required details	Phase 1 - OFC details required for Lease fibre or lossy fibre (Raitel/ BSNL fibre) from SDC to Master block to Sub block to FPOI - We request to share GP wise details to figure out	Kindly Refer shared data based on submitted signed NDA.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					replacement quantity and new ring quantity .	
59	3 -SECTION-3 ELIGIBILITY CRITERIA	3.1	-	iii) For Active Equipment's Experience: Experience of Telecommunication equipment installation, commissioning with AMC /warranty or O&M of at least- as per table details mentioned in Appendix # A. The active nodes to be considered for this criterion can be Routers, Layer-3 Switches, BNGs, PTNs/CPANs, DWDM, OLTs of 16 or more ports, enode-B, BTS and OTN.	As per our understanding,bidder must have either of the one: 1) Experience of Telecommunication equipment installation, commissioning with AMC /warranty of at least- as per table details mentioned in Appendix # A. Or 2) Experience of Telecommunication equipment O&M/FLM (First level maintenance) of at least- as per table details mentioned in Appendix # A. Please consider O&M/FLM (First level maintenance) of Routers, Layer-3 Switches, BNGs, PTNs/CPANs, DWDM, OLTs of 16 or more ports, enode-B, BTS and OTN . Justification- The O&M of active devices/ nodes comes under FLM only as the repair of these equipment lies with OEM only .	PI see revision
60	Annexure B: TECHNICAL SPECIFICATIO NS OF NETWORK	IV. Technical Specifications for Routers	328	Minimum Specifications for IP-MPLS for GP and Block Router 1. Compliance: TEC/GR 48050:2024 Standard	Request you to kindly refer the attached snap from BSN central RFP clarification no 447 dated 08-05-2024 , Clause as modified , Request you to kindly Align as per BSNL Central RFP Tender	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
	AND ITS COMPONENTS			with latest amendments if any or	No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 where Router category is kept as Category XV.	purpose for reducing traffic handover, cost optimization in the interest of public money.
61	SECTION-4 INSTRUCTIONS TO BIDDERS	4.71 PUBLIC PROCUREMENTS	122	a. In accordance to guidelines of GoI issued vide No. P-45021/2/2017-PP(B.E.-II) dated 16th September, 2020, No. P-45021/102/2019-BE-II-(part I) (E-50310) dated 04.03.2021 and Department of Telecommunications Gazette notification dated 29th August 2018 along with instructions as amended from time to time by Govt. of India, in order to encourage make in India and promote manufacturing and production of goods and services in India, preference will be given to domestically manufactured equipment envisaged to be procured through this tender. A copy of the aforesaid Notifications/ Guidelines/ Amendments can be downloaded from Department of Promotion of Industry and Internal Trade website i.e. URL www.dipp.gov.in .	As per the clause, in order to encourage make in India and promote manufacturing and production of goods and services in India, preference will be given to domestically manufactured equipment envisaged to be procured through this tender. A copy of the aforesaid Notifications/ Guidelines/ Amendments can be downloaded from Department of Promotion of Industry and Internal Trade website i.e. URL www.dipp.gov.in . Purchase preference for domestic manufacturer, methodology of its implementation, value addition to be achieved by domestic manufacturers, self-certification and compliance and monitoring shall be as per the aforesaid Guidelines/ Notification. <u>Here we again request you to comply with the latest guidelines of DPIIT vide latest order no.No:P-45021/2/2017-PP(BE-II)-Part(4)Vol.II dated 19.7.2024 along with DoT Notification (Ministry of Communications) dated 21st Oct-2024.</u>	We want to promote MII in letter and spirit. The competent authority in India has issued the latest guideline of DPIIT related to MII dated 21-Oct-2024. Hence, It is applicable in this RFP also. As per clause – 12 in Make in India Implementation issued by DoT dated on 21 October 2024 the proof of concept (POC) is included for Make in India (MII) products (Router and RFMS) and tenderer may ask for POC from bidder/OEM for the same. It is the OEM and bidder responsibility to offer POC with all preparedness for validation of offered products at neutral LAB within 3 calendar days from the date of bid

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
				Purchase preference for domestic manufacturer, methodology of its implementation, value addition to be achieved by domestic manufacturers, self-certification and compliance and monitoring shall be as per the aforesaid Guidelines/ Notifications. The Guidelines may be treated as an integral part of the tender document.		<p>submission and conclude within 3 calendar days from the date of start of POC.</p> <p>The failure during the POC shall be the good reason for disqualifying the offered products quoted by the bidder without any scope of further justification and everlasting endless discussion.</p>
62	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	329	<p>Minimum Specifications for IP-MPLS GP Router For Switching capacity ≥ 40Gbps</p> <ul style="list-style-type: none"> • 3 ports of 10G (Pluggable will be in scope of bidder as per solution design), • 3 ports of 1G/10G Pluggable will be in scope of bidder as per solution design • 4 Port of Electrical GE(RJ45 without SFP) • The modular chassis or fixed integrated chassis, both are allowed for wider 	<p>We Again Request you to kindly align the specifications exactly as per central BSNL tender for the purpose of cost optimisation, Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024. i.e.,</p> <p>For Switching capacity ≥ 40Gbps</p> <ul style="list-style-type: none"> • 2 ports of 10G (Pluggable will be in scope of bidder as per solution design), • 2 ports of 1G/10G Pluggable will be in scope of bidder as per solution design 	<p>PI refer revised Clause: Minimum Specifications for IP-MPLS GP Router For Switching capacity ≥ 40Gbps</p> <ul style="list-style-type: none"> • 2 ports of 10G (Pluggable will be in scope of bidder as per solution design), • 2 ports of 1G/10G Pluggable will be in scope of bidder as per solution design • 4 Port of Electrical GE(RJ45 without SFP) <p>If OEM will provide</p>

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
				competition subjected to control plane and data plane redundancy without compromising ask of the RFP.	• 4 Port of Electrical GE(RJ45 without SFP)	additional ports over and above minimum specification, then it will consider for higher score in better quality product.
63	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	329	Minimum Specifications for IP-MPLS GP Router • The modular chassis or fixed integrated chassis, both are allowed for wider competition subjected to control plane and data plane redundancy without compromising ask of the RFP.	<p>We again request you to remove the condition of control and data plane redundancy from GP Routers and strictly follow the TEC GR no.48050:2024 Category XV.</p> <p>Request you to kindly refer the attached snap from BSN central RFP clarification no 447 dated 08-05-2024 , Clause as modified , Request you to kindly align as per BSNL Central RFP Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024.</p> <p>Also as per clause 3.6.1 of TEC GR 48050:2024, the fixed form factor (non-chassis) type routers doesn't come with control and data plane redundancy. For achieving control and data plane redundancy, modular chassis is required with controller redundancy and data ports</p>	The control plane redundancy is optional. However, if any OEM will provide control-plane redundancy, then it will consider for higher score as part of better quality product.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					distribution across multiple line cards. Putting a modular chassis at GP level will increase the space and power consumption to many folds . This is also not a standard industry practice globally, especially at access layer and also not part of the requirement in Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024.The domestic industry has designed and manufactured the routers in line with the Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 and TEC GR.48050:2024	
64	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	329	Minimum Specifications for IP-MPLS Block Router • The modular chassis or fixed integrated chassis, both are allowed for wider competition subjected to control plane and data plane redundancy without compromising ask of the RFP.	We Request you to kindly Kindly align as per central BSNL Tender Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024. where control & Data plane redundancy was not part of the central BSNL Tender requirements . Block Router to follow the redundancy requirement of block router should be as prescribed for non- chassis type Router in TECGR48050:2024 ,Kindly Refer the attached Snap from	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					central BSNL tender clarification 450 dated 08-05-2024	
65	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	330	Minimum Specifications for IP-MPLS GP and Block Router Power supply and FAN redundancy: Solution equipment should have redundant power card and redundant 1+1 or N+1 fan modules, those OEMs who are having problem in meeting hot-swappable requirement may provide high availability assurance with standard equipment MTBF (Greater than 70,000 hours as specified in QM-115 of TEC/GR 48050:2024 or equivalent international standard)	As requested earlier kindly keep hot-swappability for power and fans as a mandatory requirement and remove the alternate requirement of high MTBF. High MTBF will not ensure GP to be live in case of FAN and/or Power supply failure. In the event of failure of FAN and/or Power Supply, the hot-swappability design will ensure online replacement of faulty modules without any network downtime. The domestic industry has already designed and manufactured the routers in line with the Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 and TEC GR 48050:2024. Hot-swappability of power and fans has been made mandatory as per clause 3.6.1.1 and 3.6.1.2 of the TEC GR 48050:2024 and as per clarification number 1130 dated 08-05-2024 of Bharatnet Tender reference MM/BNO&M/BN-III/T-791/2024	RFP clause is revised here; "Solution equipment should have redundant power card and redundant 1+1 or N+1 fan modules or redundant fans in 1+1 or N+1 with a hot-swappable fan tray without affecting services shall be allowed for wider participation, those OEMs who are having problem in meeting hot-swappable requirement may provide high availability assurance with standard equipment MTBF (Greater than 70,000 hours as specified in QM-115 of TEC/GR 48050:2024 or equivalent international standard)"

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					issued on 15.02.2024 which is reproduced below:	
66	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	331	Minimum Specifications for IP-MPLS GP Router Fundamentally, we want wider competition, MII, ease in technical terminologies. 2) We are not intending for any proprietary terminologies and elimination of competition merely on ground of proprietary words / monopolized ask. To address this issue in general, the equivalence of any standard, proprietary words / monopolized ask, , bidder / OEM may provide equivalence of the same without dilution of functional ask.	We request you to kindly align QM-333 Standard Category B2 for GP Routers as per Bharatnet Tender No. MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024. QM-333 is not a proprietary specifications. This is an Indian environmental standard developed by Telecommunication Engineering Centre (TEC), outlines environmental testing requirements for telecommunication equipment and being followed widely in all the domestic procurement processes by government and private sectors. <u>QM-333 has been made mandatory while formulating the TEC GRs for all the products for umpteen no of</u>	Existing clause - "The routers shall be installed in the buildings without air conditioning where adequate ventilation may or may not be available. Therefore, the routers shall meet the Temperature and Humidity Requirements as per Category B of QM-333 standard or equivalent international standards." Revised clause - "The routers shall be installed in the buildings without air conditioning where adequate ventilation may or may not be

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					years in India.	available. Therefore, the routers shall meet the Temperature and Humidity Requirements as per Category B2 of QM-333 standard or equivalent international standards."
67	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers	338	21 Testing and Certification Conformance tested for interoperability with multi-vendor devices and certified per TEC GR standards.	We understand that Multivendor Clause is not applicable to OEM EMS as clarified in Corrigendum 3, query SL 103: The NEs in the network communicate with their respective EMS. The NE-specific EMS is communicated via standard protocol, through the northbound interface to a higher-level NMS that provides integrated multivendor network management. Hence, We request to delete this clause.	As per TEC for EMS of router, the NEs in the network communicate with their respective eMS. The NE-specific eMS's communicate via standard protocol, through the northbound interface to a higher-level NMS that provides integrated multivendor network management
68	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	VIII. Technical Specifications for LAN Switch	Page 342 of 487	CPE (customer premise equipment) L2 manageable switch – 8 ports TEC GR Standard No.: TEC TEC-GR-IT-LSW-001-05-Mar-14, with latest amendments if any	Our Request is to consider certification/TAC/ TSEC obtained under same GR for any other projects of BSNL/BBNL/MTNL/State Government/Central Government/Defense BharatNet tenders .	It is obligation on part of bidder to submit proper bid alongwith supporting valid ask documents required.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
69	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	331	<p>Minimum Specifications for IP-MPLS Block Router The routers shall be installed in the buildings without air conditioning where adequate ventilation may or may not be available. Therefore, the routers shall meet the Temperature and Humidity Requirements as per Category B of QM-333 standard. or equivalent international standards.</p> <p>Note: 1 GFGNL will establish shelters at sub-block and master block locations with proper air conditioning in operation. However, the bidder/OEM must still comply with the category B QM-333 standard or an equivalent international standard.</p>	<p>As is clear from the tender clause Note1, Block Router would be placed in a controlled environment. The clause is reproduced below: "<i>Note: 1 GFGNL will establish shelters at sub-block and master block locations with proper air conditioning in operation.</i>" However in the same Note1, compliance to Category B is sought which is in variance with the Note1 pertaining to availability of the controlled environment.</p> <p>In view of above, we request you to amend the clause as "Block Routers should be meeting the minimum. operating temperature requirements of 0C to 40C and Relative Humidity of 85% or better.</p>	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
70	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers	330	DC (-40 V to -72 V), Surge protection of 2KVA	We request you to keep the DC voltage in line with TEC/GR 48050:2024 for Block Router.	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
71	IV. Technical Specifications for Routers	IV. Technical Specifications for Routers: Point No 5 -> Revised Master RFP (Page 344) : Minimum Specifications for IP-MPLS at GP Routers (Type C & Type D)	-	(v)Power supply and FAN redundancy : Solution equipment should have redundant power card and redundant 1+1 or N+1 fan modules, those OEMs who are having problem in meeting hot-swappable requirement may provide high availability assurance with standard equipment MTBF (Greater than 70,000 hours as specified in QM-115 of TEC/GR 48050:2024 or equivalent international standard)	Solution equipment should have Redundant & hot swappable Power supplies in 1+1 or N+1 arrangement. Additionally, it should also have redundant fans in 1+1 or N+1 with a hot swappable fan tray. In case,a router supports a hot swappable, on line insertion and removal of fan module, containing 1+1 or N+1 fans inside that will also be allowed provided The action / fault will be rectified as an Online Removal and Insertion of new module without affecting services. Further, an undertaking by OEM that the fan module complies with standard equipment MTBF (Greater than 70,000 hours as specified in QM115 of TEC/GR 48050:2024) to be submitted along with the bid.	RFP clause is revised here; "Solution equipment should have redundant power card and redundant 1+1 or N+1 fan modules or redundant fans in 1+1 or N+1 with a hot-swappable fan tray without affecting services shall be allowed for wider participation, those OEMs who are having problem in meeting hot-swappable requirement may provide high availability assurance with standard equipment MTBF (Greater than 70,000 hours as specified in QM-115 of TEC/GR 48050:2024 or equivalent international standard)"
72	IV. Technical Specifications for Routers	IV. Technical Specifications for Routers: Point No 5 -> Revised Master RFP (Page 344) : Minimum Specifications for IP-MPLS at GP Routers (Type C & Type D)	-	Point No 6 : Input power and Surge Protection - AC (110 V to 280 V), Surge protection of 2KVA	DC (-40 V to -60 V), Surge protection of 2KVA OR AC (110 V to 280 V) with AC to DC adaptor with Surge protection of 2KVA be allowed as It is recommended and as a standard industry practice, Telecom Network Equipment should work on DC Input Power supply. UPS at GP location will be provided for a stable AC supply and back up also. External AC to DC	Router with DC power(-40 V to -72 V) supply will be considered subject to dual AC to DC converter provision along with additional spares.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					adaptor for -48V DC supply to router shall also be allowed provided with IEC connectors. Suitable IEC connector 13 or 14 can be used to connect the output of UPS to the adaptor. In case of failure of UPS, wherein 3 Pin plug of the adaptor can be connected to the commercial supply and router shall continue to work merely by changing a cable till the time, the UPS fault is attended also will be allowed.	
73	IV. Technical Specifications for Routers	IV. Technical Specifications for Routers: Point No 5 -> Revised Master RFP (Page 344) : Minimum Specifications for IP-MPLS Block Router (Type B Router)	-	Point No 5 : Solution equipment should have redundant power card and redundant 1+1 or N+1 fan modules, those OEMs who are having problem in meeting hot-swappable requirement may provide high availability assurance with standard equipment MTBF (Greater than 70,000 hours as specified in QM-115 of TEC/GR 48050:2024 or equivalent international standard)	Solution equipment should have Redundant & hot-swappable Power supplies in 1+1 or N+1 arrangement. Additionally, it should also have redundant fans in 1+1 or N+1 with a hot-swappable fan tray. In case, a router supports a hot swappable, on line insertion and removal of fan module, containing 4 fans inside that, while all the four fans are having separate power supply from the main fan tray. In case of failure of one fan, other fans will continue to work. Having raised the alarm, service engineer will visit the site with new fan tray, and without powering off the router, working fan tray having one faulty fan will be taken out and replaced with new fan tray. The action / fault will be rectified as an Online Removal and Insertion of new	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					module without affecting services will also be allowed. Further, an undertaking by OEM that the fan module complies with standard equipment MTBF (Greater than 70,000 hours as specified in QM115 of TEC/GR 48050:2024) to be submitted along with the bid.	
74	SECTION-5 SCOPE OF WORK	5.12 POC(PROOF OF CONCEPT) Page 173	-	Point No IV : The failure during this pilot pocket shall be the good reason for termination of the entire workorder without any scope of negotiation or doubts. The workorder will be given to the next eligible bidder in the sequence to de-risk the government against time.	Bidder has to carryout the POC for the proposed solution within 15 days from the date of intimation to the bidder. Successful POC shall be part of fulfillment of technical eligibility criterion. In case, if the bidder fails to achieve the required benchmark as mentioned/ Unsuccessful/ unsatisfactory POC will lead to summarily rejection of offer.	It is the prime responsibility of bidder for due diligence including pre-bid POC at his end.
75	SECTION-4 INSTRUCTION S TO BIDDERS	4.44 PATENT RIGHTS, COPY RIGHT & IPR (Page 104)	-	Point No (ii) All the software licenses on the name of Tenderer.	IPR of the IP-MPLS software should be in the name of Tenderer / OEM. IPR for the <u>software of offered models of IP-MPLS routers should registered in India and a certificate of the IPR must be attached with the bid. (Mandatory)</u>	The IPR of the IP-MPLS software is optional. However, if any OEM will submit the legitimate undertaking or access rights, will consider for higher score as part of better quality product.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
76	IV. Technical Specifications for Routers	IV. Technical Specifications for Routers, Point No 9 : Space requirement (Page No 345)	-	Minimum Specifications for IP-MPLS Block Router : Maximum 2 RU (Rack Unit)	Minimum Specifications for IP-MPLS Block Router : Type A: Maximum 4 RU (Rack Unit) Type B : Maximum 2 RU (Rack Unit)	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
77	XI. Unlicensed Band Radio (UBR)	Page 362	Page 362	1 x 100/1000 Base-T[X] type with auto negotiation or 1 GE optical ports (1310nm, all with auto-negotiation, 5 Km range SFPs) shall be provided for FO	Power over Ethernet is requested in specs of this tender & if the optical port is required for data transmission then radio must support both Optical and Electrical port. Please clarify.	It is already aligned with BSNL central RFP.
78	XI. Unlicensed Band Radio (UBR)	Page 362	Page 362	Comprehensive VLAN support: 802.1Q, Q-in-Q, Access, Trunk, Transparent, Quality of Service (QoS)	Since Switch is already requested in the RFP and Trunk configuration of VLAN is a feature of switch Therefore we request that VLAN support should be as per IEEE 802.1Q standard.	Pl see revision: <u>Updated Clause:</u> Comprehensive VLAN support: 802.1Q, Q-in-Q, Access, Trunk/ Transparent, Quality of Service (QoS)
79	XI. Unlicensed Band Radio (UBR)	Page 363	Page 363	Detailed Ethernet and wireless interface monitoring via NMS Real-time counters for Tx/Rx data rates, packet loss, and performance data,Power Issue(Utility),Equipment-coldStart, warmStart, linkDown, linkUp, authenticationFailure, and link utilization, performance,	Requirement from the clause is not clear as first detailed PM parameters are mentioned but later mentioned support atleast fault,Config,Accounting,Performance & Security. Kindly Clarify which parameters are required.	Updated Clause:Detailed Ethernet and wireless interface monitoring via NMS Real-time counters for Tx/Rx data rates, packet loss, and performance data, Power Issue(Utility) ,Equipment- coldStart, warmStart, linkDown, linkUp,

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
				latency,etc.EMS/NMS ,Syslog Support atleast : fault, configuration, accounting, performance and security		authenticationFailure, and link utilization, performance, latency,etc.EMS/NMS ,Syslog Support atleast : fault, configuration, accounting, performance and security
80	XI. Unlicensed Band Radio (UBR)	Page 363	Page 363	GPS synchronization, MAC-level authentication, device alerts, wall/pole mounting, MIMO technology, 1024QAM modulation	As per corrigendum issued on 2nd April 2025 it's mentioned that in answer to query 114 that "Security is utmost important and it should be protected in all case scenerio for securing the link from third party including password at wireless link level." But it is not included in the RFP. Moreover still more secure way of authencication like RADIUS is not added. Please consider this clause.	Update Clause: GPS synchronization, MAC-level authentication/ RADIUS, device alerts, wall/pole mounting, MIMO technology, 1024QAM modulation
81	XI. Unlicensed Band Radio (UBR)	Page 364	Page 364	System availability target: 99.9% annually High fault tolerance and reliability for all network elements	Required confirmation if Revenue Village performace is also covered in TECHNICAL QUALIFICATION CRITERIA if yes then what is the scoring of Alternate technology(UBR/LI-Fi) performance?	PI See Revision
82	Section 10 - Annexure B	X. Minimum Technical specifications for Uninterrupted Power Supply (UPS) System at GP	-	Electrical Safety --- Isolation transformer for Source isolation	In rectifier section of UPS, there is galvanic isolation between input and output. Below is a block diagram of rectifier circuit. As shown in below image, there is already a transformer between AC input and DC output of rectifier section. So there is no	Already responded in earlier Corrigendum.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					need to have extra isolation transformer at source.	
83	Section 10 - Annexure B	X. Minimum Technical specifications for Uninterrupted Power Supply (UPS) System at GP		UPS Body --- Metal with one unibody design includes UPS and Battery Back with grouted on floor with anti-theft mechanism	We suggest to mount UPS, battery and network equipments in one single rack. This will save space as well as cost of additional rack.	It will restrict the participations.
84	-	15	142/143	<p>a) For rectification or replacement of the % work scope is expected as below, For Phase-I, In between of 10% to 20% of existing network, For Phase-II, In between of 5 % to 10% of existing network .</p> <p>(For Phase-I, In between of 10% to 20% of existing network shall be paid by the GFGNL.At the same time, beyond opted limit in between 10% to 20%, the PIA have to do that replacement without cost to GFGNL.</p> <p>For Phase-II, In between of 5 % to 10% of existing network shall be paid by the GFGNL.At the same</p>	<p>a) For rectification or replacement of the % work scope is expected as below, For Phase-I, upto 45% of existing network, For Phase-II, In between of 20% of existing network .</p> <p>(For Phase-I, upto 40% of existing network shall be paid by the GFGNL.At the same time, beyond this limit the PIA have to do that replacement without cost to GFGNL.</p> <p>For Phase-II, upto 15% of existing network shall be paid by the GFGNL.At the same time, beyond this limit the PIA have to do that replacement without cost to GFGNL.</p>	<p>Please see Revision: Updated Clause: a) For rectification or replacement of the % work scope is expected as below, For Phase-I, In between of 20% to 25% of existing network, For Phase-II, In between of 5 % to 10% of existing network .</p> <p>(For Phase-I, In between of 20% to 25% of existing network shall be paid by the GFGNL.At the same time, beyond opted limit in between 20% to 25%, the PIA have to do that replacement without cost to GFGNL.</p>

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
				time, beyond opted limit in between 5% to 10%, the PIA have to do that replacement without cost to GFGNL.)		For Phase-II, In between of 5 % to 10% of existing network shall be paid by the GFGNL. At the same time, beyond opted limit in between 5% to 10%, the PIA have to do that replacement without cost to GFGNL.)
85	-	12.C	142	First preference for parenting each GP ring to block routers shall be dual homed. It should be minimum 65:35 ratio i.e. 65% of GPs are dual homed means to be parented to two different Sub-blocks and 35% of GPs are single homed means to be parented to single sub-block.	First preference for parenting each GP ring to block routers shall be dual homed. It should be minimum 70:30 ratio i.e. 70% of GPs are dual homed means to be parented to two different Sub-blocks and 30% of GPs are single homed means to be parented to single sub-block.	The additional features over and above the ask of the RFP can be submitted for high score as part of better quality product/designing

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
86	-	16	143	<p>Permissible limit for single UG path - Up to 10% of GPs scope of Kutch region</p> <p>Permissible limit for use of alternative technology for GP ring closure - Up to 20% of GPs scope of Kutch regions.</p> <p>Permissible limit for single UG path - Up to 8% of GPs scope of Other region</p> <p>Permissible limit for use of alternative technology for GP ring closure - Up to 6% of GPs scope of other except kutch</p>	<p>Permissible limit for use of alternative technology for GP ring closure - Up to 10% of GPs scope of Total Package with</p> <p>Permissible limit for use of alternative technology for GP ring closure for Kutch region is capped at 20% of GPs scope of Kutch regions</p>	It is self explanatory
87	-	5.5.1	161	The final acceptance (commissioning) shall cover 100% of the network for the Gram Panchayat at Block level as well as at Gram panchayat (GP), after successful testing by State/SIA or its nominated agency.	The final acceptance (commissioning) shall cover 100% of the network for the Gram Panchayat at OLT level as well as at Gram panchayat (GP), after successful testing by State/SIA or its nominated agency.	The existing OLT is located at Block level and the clarification sought is already aligned.
88	-	RACK		(ETSI Rack is Specified in tender	Smart Rack should be proposed as ABP Tender , it is futuristic and has low power consumption	The Rack mentioned in the RFP is considering the geographical situation and future requirement of BharatNet.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
89	-	-		If the OFC cable cut is such that the cable has been damaged for distance more than 300 meter by any external agency, such as waterpipelines, drainage lines, Telecom cables, UG power cables, Gas pipelines, etc.. then State/SIA shall bear cost of cable/PLBE. But the BIDDER shall bear the cost of workmanship and other store like splicing, jointing kits etc. Below 300 mtr of damage, BIDDER will bear all the cost of restoration including material and workmanship.	Check for Existing also : - Kindly change it to 100 M Post 100M , suggested the discovery of Price as predefined rates thru rate case Suggestion - 300 INR per Meter Kindly consider damage more than 100 Meter for State to bear material cost.	As per RFP
90	-	SECTION-3 ELIGIBILITY CRITERIA	55	The EPC OFC Construction project execution shall consist of both Supply and Construction of OFC Network	Please allow acceptance with Separate PO for Supply of OFC, Supply of Duct, Laying OFC for same project.	Pl see revision
91	-	SECTION-3 ELIGIBILITY CRITERIA	59	5.5 There must not be any criminal case booked by any Government authority against the sole and any of the consortium members in any court in last 5 years as on bid submission date.	If any company's matter is under subjudice due to experience documentation forgery in Amended BharatNet Program Tender by BSNL. Is the company allowed to bid for this tender, if matter is still not cleared. Kindly Confirm	Bidder has to provide undertaking as per Annexure:XXX format in the RFP.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
92	-	SECTION-3 ELIGIBILITY CRITERIA	59	5.5 There must not be any criminal case booked by any Government authority against the sole and any of the consortium members in any court in last 5 years as on bid submission date.	If any company having matter subjudice with BSNL, in ABP Tender floated by BSNL. Then these companies are allowed for participation. PI confirm.	PI see preceding response
93	-	X	140	<p>State/SIA will support space and power supply requirements for the equipment to be installed at GP as well as telecom grade shelters for BharatNet Phase-III network.</p> <p>Power consumption and Space usage outlook of network equipment for Phase-III including 10 years of O&M period requires to submit by PIA in financial bid format as a separate component.</p> <p>It is the responsibility of GFGNL to provide space and power source including recurring bills. The extension internal power cable and electrical safety of equipment will be in the scope of PIA.</p>	<p>As per our understanding:</p> <ul style="list-style-type: none"> - GFGNL will be responsible for Space & Power Supply to the installed GP as well as shelter for complete contract period - Recurring bills for the power consumption will be paid by GFGNL <p>Kindly Confirm.</p> <p>PIA need to submit the estimate Electrical Expense for all Sites (Block and GP) , Do PIA need to pay the bills of power as per actual usage of GP and Block or GFGNL will pay</p> <p>Clarity required in case of Wrong Estimation</p>	<p>For better clarity, GFGNL will responsible for providing space and power supply at GP as well as at Shelter.</p> <p>For Shelter Site, a separate agency will create the infrastructure and handover to selected PIA of Amendment BharatNet PhIII. After the handover, the complete infrastructure including the power back up at Shelter and GP will be solely responsibility of selected PIA (of Amendment BharatNet Ph-III).</p> <p>- Recurring bills for the power consumption will be paid by GFGNL</p>
94	-	NA	NA	NA	Suggest to Keep OTC on actual with some price discovery	PI refer the Payment criteria for better clarity.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
95	-	A (IX)	30	The Network KPI considered in BharatNet Phase-III for State NOC equipment $\geq 99.9\%$, for Block level router $\geq 99.5\%$ and for GP level router $\geq 98.5\%$ in view of achieving high network availability.	The Space & Power are being facilitated by State/ GFGNL through the Shelter agency & the equipment availability majorly depends on power & space with cooling (i.e infra) hence the Shelter Agency need to be accountable for equipment uptime. PIA SLA calculation to be done excluding power & shelter unavailability.	PI see revision. Shelter O&M scope will be under the selected PIA of Amendment BharatNet Phase-III and hence, maintaining end to end SLA will be in the bidder's scope.
96	-	6.2	228	PAYMENT SCHEDULE OF PROJECT	For Better Cashflow - Please restrict payment of Milestone 5 payment to 5% and shift difference to Milestone 2	Duplicate query, pl see preceding response.
97	-	6.2.1	235	Partial go-live: Applicable for sub-block wise completion for one quarter (3 months) a) GP commissioned in the ring with full accessories including all safety precautions and meeting engineering guidelines at site, meeting at least 95% of sub-block GP scope and linked revenue villages.	Please amend partial go-live definition from 95% to 90% for streamlined O&M Payments	As per RFP ,Situation beyond the control of the PIA with valid justifications will taken into considerations as per the case may be.
98	-	7.3	245	Penalty for deviation in delivery timelines/milestone to be achieved will be ceiling capped at 15% of total CAPEX of respective package.	Both Statement are contradicting. Please confirm the maximum LD % (10% or 15%)	Thanks for identifying typo. pl see revision.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
99	-	4.53	108	Quantum of LD: maximum deduction shall be 10% of the total contract value	Both Statement are contradicting. Please confirm the maximum LD % (10% or 15%)	Duplicate query, pl see preceding response.
100	-	7.8	248	Discovered Unit Rate of Protection Material	what is the reference of discovered unit rate ?	Pl see revision
101	-	7.3	245	The cumulative GPs pending till that month, would be penalized at the rate applicable for the current month.	The penalty should be imposed only for the incremental GPs in the subsequent month so that munitions penalties are not imposed for the same GP	As the model of the RFP is EPC, discovered rate per GP/village will be taken into account.Hence,The cumulative GPs pending till that month, would be penalized at the rate applicable for the current month.And hence no change.
102	-	Toll Gate 3:	195	Handover Execution	The HOTO should include the details of damaged and temporary restored ofc route lengths. There should be separate payment of the damaged sections are more than some fixed length say 5% There should be separate payment for splicing of existing joint chambers wherever the same are required to be opened for splicing of all the fibres. There should also be separate payment for making manholes and route indicators in the made over network if required.	Please refer the clause of rectification and repair in section 5.3 FIBERIZATION AND DESIGN PRINCIPLES. Which will de-risk the ask.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
103	SECTION-3 ELIGIBILITY CRITERIA	Appendix # A #Table-02 For Lead Bidder and Consortium (Sr no:C)		<p>Eligibility Criteria: Total Experience Of OFC Project(Km) Consortium Partner and /or Lead Bidder</p> <p>Bid for Single Package: 8,000 Km (with maximum two(2) orders in last 10 years) *or OFC Project order value Rs. 500 Cr up to max two(2) multiple orders in last 10 years</p> <p>Bid for two Packages: 15,000 Km (with maximum two(2) orders in last 10 years)* or OFC Project order value Rs. 900 Cr up to max two(2) multiple orders in last 10 years</p>	<p>Eligibility Criteria: Total Experience Of OFC Project (Km) Consortium Partner and/or Lead Bidder</p> <p>Bid for Single Package: As per the Company TurnOver SECTION-3 ELIGIBILITY CRITERIA 3.1-(2.1) since the bidder should be in the business of OFC Business/ ITes / Telecommunication Networking field /EPC in Power/OFC/GAS or other utility.</p> <p>We request you to amend the clause as</p> <p>8,000 Km (with maximum two(2) orders in last 10 years) *or OFC Project/ OFC Business/ Telecommunication field /EPC in Power / OFC / GAS or other utility with order value Rs. 500 Cr up to max two(2) multiple orders in last 10 years</p> <p>Bid for two Packages: As per the Company TurnOver SECTION-3 ELIGIBILITY CRITERIA 3.1-(2.1) since the bidder should be in the business of OFC Business/ ITes / Telecommunication Networking field /EPC in Power/OFC/GAS or other utility.</p>	The experiences asked in the eligibility criteria are the key deliverable of the RFP. Hence, no change

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					<p>We request you to amend the clause as</p> <p>15,000 Km (with maximum two(2) orders in last 10 years)* or OFC Project/ OFC Business/ Telecommunication field / EPC in Power / OFC /GAS or other utility with order value Rs. 900 Cr up to max two(2) multiple orders in last 10 years</p>	

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
104	SECTION-3 ELIGIBILITY CRITERIA	Appendix # A #Table-02 For Lead Bidder and Consortium (Sr no:D)		<p>Eligibility Criteria: Total Experience Of OFC Project(Km) Consortium Partner and /or Lead Bidder</p> <p>Bid for Single Package: 8,000 Km (with maximum two(2) orders in last 10 years) *or OFC Project order value Rs. 500 Cr up to max two(2) multiple orders in last 10 years</p> <p>Bid for two Packages: 15,000 Km (with maximum two(2) orders in last 10 years)* or OFC Project order value Rs. 900 Cr up to max two(2) multiple orders in last 10 years</p>	<p>Eligibility Criteria: Total Experience Of OFC Project (Km) Consortium Partner and/or Lead Bidder</p> <p>Bid for Single Package: As per the Company TurnOver SECTION-3 ELIGIBILITY CRITERIA 3.1-(2.1) since the bidder should be in the business of OFC Business/ ITes / Telecommunication Networking field /EPC in Power/OFC/GAS or other utility.</p> <p>We request you to amend the clause as</p> <p>8,000 Km (with maximum two(2) orders in last 10 years) *or OFC Project/ OFC Business/ Telecommunication field /EPC in Power / OFC / GAS or other utility with order value Rs. 500 Cr up to max two(2) multiple orders in last 10 years</p> <p>Bid for two Packages: As per the Company TurnOver SECTION-3 ELIGIBILITY CRITERIA 3.1-(2.1) since the bidder should be in the business of OFC Business/ ITes / Telecommunication Networking field /EPC in Power/OFC/GAS or other utility.</p>	Duplicate query, pl see preceding response.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
					<p>We request you to amend the clause as</p> <p>15,000 Km (with maximum two(2) orders in last 10 years)* or OFC Project/ OFC Business/ Telecommunication field / EPC in Power / OFC /GAS or other utility with order value Rs. 900 Cr up to max two(2) multiple orders in last 10 years</p>	
105		Master RFP		Technology	UPS should be with double conversion technology and should also give stabilized output of 230 VAC +/- 2% on manual as well as static bypass mode.	PI see technical specifications in the RFP in last corrigendum. However, clause reproduce again

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
						here for reference. <u>Clause:</u> Dual Rectifier with double conversion including inbuilt stabilizer with range 110V – 280V and mechanism to provide protected environment to switchover on row power supply in case of failure of UPS
106		Additional			UPS OEM should have Extended Producer Responsibility (EPR) certificate issued by central government towards battery waste management.	<p>1) Fundamentally, we want wider competition, MII, ease in technical terminologies.</p> <p>2) We are not intending for any proprietary terminologies and elimination of competition merely on ground of proprietary words / monopolized ask, minor ports, legacy technology protocols not impacting business and functional ask of the RFP.</p> <p>The above is general principle and will apply across the RFP to derisk from propriety terminology and elimination of competition. Hence, participants may go through the scope of</p>

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
						work, functional aspects, supportive technical language for better undertading.
107		Additional			UPS OEM should have its own service centre in Gujarat state and should be operational since last 5 years. OEM need to submit documentary proof establishing the same.	To deal with the Repair and Return(R&R) commitment from the OEM is already part of the RFP.
108	-	7.9.10	260	The number of OFC cuts per 1000 Km OFC network per quarter must not increase 10 Nos/Quarter.	The requested FTKM is 15 per quarter since the prevailing OFC cuts avg in Gujarat for even the best of the telecom companies is above 15 per 1000 km	Fibre cut mentioned in the RFP is based on the best practices in the telecom industry.
109	-	5(b)	220	Quarterly payment as per the provision of the Contract Agreement (MSA).	Requested to revise for monthly invoicing & payments to ensure adequate cash flow to ensure best of services.	PI see Revision

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
110		Page no 52 Clause 6: MAF	52	<p>The Bidder or the lead member (in case of Consortium) should submit valid Manufacturer Authorization Form (MAF) from maximum two(2) for all passive and active components (Like, (all types of OF Cables, Duct, Joint Closures (SJC & BJC), FDMS & FTB(Routers, RFMS, UPS & Racks).</p> <p>TSEC/TEC issued against earlier tender(s) of DoT/BSNL/BBNL/MTNL/State Government/Central Government/ BharatNet Projects BSNL QA registered QF-103 or Form B issued by TEC for the quoted products shall also be acceptable for eligibility to submit the Bid only.</p>	Please confirm if we can use the existing TSEC/TEC/QF103 issued against earlier tender(s) of BSNL BharatNet Projects for Racks at Block and GP.	For ease of doing business and ease of submissions, the relevant existing TSEC/TEC/QF103 issued against earlier tender(s) of BSNL BharatNet Projects for Racks at GP are allowed.
111		Page no 365 XIII. Racks at GP location	365	<p>Size: Minimum 19U Floor Mount</p> <p>As per site requirement with provision for minimum 20% additional space for future expansion.</p>	Please confirm if the 20% additional space for future is part of 19U or it is over and above 19U.	It is part of 19U

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
11 2	XI. Unlicensed Band Radio (UBR)	6/Page 59	6/Page 59	Copy of Type Approval Certificate given by Telecom Engineering Centre (TEC)/TSEC issued by the Quality Assurance Circle of BSNL or proof of having applied for TAC/ TSEC (Copy of Form-B/ Form QF-103 of offered product be attached) from each OEM whose products are being quoted by the Bidder.	1) As per UBR specification TSEC is asked so need clarification on TSEC requirement for Alternate Technology products. Compliance to TEC GR 38050:2023 is asked. 2) If TSEC certificate is indeed mandatory it should be asked prior to execution of supplies of OEM product by the Lead Bidder instead GFGNL should ask for Compliance to TEC GR 38050:2023 3) Since Radios are already WPC ETA and TEC-MTCTE certified hence TSEC should be waived off as this project doesnot directly come under BSNL	As per RFP
11 3	XI. Unlicensed Band Radio (UBR)	9.25/Page 322	9.25/Page 322	Format-XXIV: for essential information for applying to NSCS	This format is for GFGNL to apply on Trusted Telecom Portal however the Radios have already been asked as NSDTS Certified, hence no undertaking for NSDTS should be accepted	As per RFP
11 4	3.1 Pre-qualification criteris	vi		6 -MAF iii) TSEC/TAC are applicable for Hardware (Active and Passive) only.	The Main BBNL Tender has asked for TEC- GR 48050:2022, and applications are submitted based on that TEC number , The GFGNL RFP is asking for 48050:2024 . Kindly confirm if the QF-103 with 48050:2022 is also accepted .	RFP Clause reproduce here: "TEC/GR 48050:2024 Standard with latest amendments if any or " will be complied for eligibility

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
115	5.1 Scope of work	e)		Establishment and Upgrade of State Network Operation Center (NOC):	<p>Request Clarification :- we understand that S-NOC is operational and will be upgraded by separate tender in future . It is also expected that PIA/OEM should expose API which means that all the OEMS have to provide EMS for their specific products .</p> <p>The Modern day open NMS can manage any OEM'S product with complete FCAPS functionality, We humbly submit to remove the EMS layer for Routers , this will reduce the complexity of integration and Routers can be directly managed by NMS in state NOC .</p>	It is already aligned with BSNL central RFP.
116	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers		2. Certification : MTCTE , NCCS	<p>NCCS certification is under discussion , No OEM has yet got the certificate as per the guidelines . Request to kindly remove NCCS certification for leading OEM to participate .</p>	<p>These are mandatory certificates before deploying any network equipment in the network. Any delay in obtaining certification before deployment is non negotiable compliance and will be treated nullification of the particular component in the invoice. However, if any OEM has problem in providing the reference certificates as per ask of the RFP, then the OEM may</p>

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
						provide letter of undertaking along with evidence of application to designated institution for wider participation. Also, applicable certificates, any amendments or issuance of compliance / guidelines are to be met before installation in our network. The above is non-negotiable condition for claiming any payments.
11 7	Annexure B: TECHNICAL SPECIFICATIO NS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers		4. Ports, Interfaces, Wavelength Distance Criteria (GP Router) The modular chassis or fixed integrated chassis, both are allowed for wider competition subjected to control plane and data plane redundancy without compromising ask of the RFP.	The asked interface and throughput for GP Routers can be easily met with fixed chassis / box , No OEM provides control plane redundancy in such boxes . Request to kindly remove "control plane redundancy" for solution clarity which will also increase the participation . Maximum GP's are connected in ring fashion with high MTBF value which will ensure maximum uptime with box availability for services.	The control plane redundancy is optional. However, if any OEM will provide control- plane redundancy, then it will consider for higher score as part of better quality product.

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
118	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers		<p>4. Ports, Interfaces, Wavelength Distance Criteria (Block Router)</p> <p>The modular chassis or fixed integrated chassis, both are allowed for wider competition subjected to control plane and data plane redundancy without compromising ask of the RFP.</p>	<p>The asked interface and throughput for Block Routers can be easily met with fixed chassis / box.</p> <p>Block 300Gbps :- Controle plane & Data Plane redundancy is not available for many OEMS providing 300Gbps box , Request to kindly remove the same for solution clarity and maximum participation .</p> <p>Block 800Gbps :- Data Plane redundancy is usually available for bigger chassis having more then 4 slots , 800Gbps can be easily provided by fix chassis configuration with High MTBF value which will meet the functional requirement of Network . Request to kindly remove Data plane redundancy from the clause for leading OEM to participate .</p>	Block router inclusion in this tender stands deleted as part of de-duplication and merging two devices for the common purpose for reducing traffic handover, cost optimization in the interest of public money.
119	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	IV. Technical Specifications for Routers		9. Space Requirement Block Router :- Maximum 2 RU (Rack Unit)	<p>The Asked block Router with 800Gbps capacity and having Redundant Controle plane is available in more than 2RU(Rack Unit) form factor. The OEM design the box keeping the redundancy for control plane and heat dissipation requirement which are very essential for equipment to work properly . Request to kindly relax the clause as more than 2 RU for 800Gbps box for leading OEM to participate .</p>	PI see precending response

Sr. No	Section No.	Clause No.	Pg no.	Reference/Subject	Clarification Sought	GFGNL Clarification
120	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers		1. System Architecture Distributed, scalable, and modular architecture with centralized management for multi-vendor devices.	Request Clarification :- Kindly clarify if the EMS for Routers can be from 3rd party . EMS from OEM are specific to their Router and they can not manage multivendor devices , Request to kindly remove the clause or allow 3rd party NMS/EMS for managing the router .	As per TEC for EMS of router, the NEs in the network communicate with their respective eMS. The NE-specific eMS's communicate via standard protocol, through the northbound interface to a higher-level NMS that provides integrated multivendor network management
121	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers		9. Notification and Alerts : Configurable alerts via SMS, email, and push notifications for critical events, with escalation mechanisms. EMS alerts should be capable of integrating with GFGNL's external SMS and email facilities.	The asked feature are not the core functionality of EMS from OEM , SMS & Email are send using NMS . Request to remove the clause for leading OEM to participate .	EMS alerts should be capable of integrating with GFGNL's external SMS and email facilities.
122	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers		10 Database Support :- Compatible with relational databases such as Oracle, PostgreSQL, or MySQL, with high-availability support.	Every OEM designs the EMS solution and its associated data base as per the algorithm for EMS functionality , data base compatibility as asked may restrict the leading OEM , Request to kindly remove the clause for leading OEM to participate .	Compatible with relational databases such as Oracle, PostgreSQL, or MySQL, with high-availability support or equivalence database support

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123	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers		17 Compliance: Adherence to ITU-T M.3010, M.3020, and TEC standards TEC/SD/IT/EMT-001/01/MAR-2016 and TEC/GR/SW/EMS-001/02/NOV-09. or equivalent STANDARD FOR GENERIC REQUIREMENTS TEC 48050:2024	Request Clarification :- The EMS from OEM are specific to product and are not TEC complied or certified , however we understand that generic requirement of EMS as per TEC 48050:2024 as also asked in the main BBNL tender is also acceptable . The section refers to PART-III eMS/NMS REQUIREMENTS 3.22 in TEC 48050:2024 -- Kindly confirm if the same can be referred here for compliance	Equivalent STANDARD FOR GENERIC REQUIREMENTS TEC 48050:2024 to comply
124	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers		User Interface:- Intuitive, web-based GUI with customizable dashboards, and role-specific access. The EMS shall provide an executive dashboard displaying service desk KPIs through graphs and charts. It shall support a flexible, user-customizable interface for detailed or holistic system views and allow a summary view of all dashboards across the enterprise.	Request to relax the clause as below for leading OEM to participate :- Intuitive, web-based GUI with customizable dashboards, and role-specific access.	The EMS shall provide an executive dashboard displaying service desk KPIs through graphs and charts. It shall support a flexible, user-customizable interface for detailed or holistic system views and allow a summary view of all dashboards across the enterprise.
125	Annexure B: TECHNICAL SPECIFICATIONS OF NETWORK AND ITS COMPONENTS	V. Technical Specifications for EMS of Routers		21. Testing and Certification Conformance tested for interoperability with multi-vendor devices and certified per TEC GR standards.	Request Change :- The EMS from OEM are specific to product and are not TEC complied or certified , however we understand that generic requirement of EMS as per TEC 48050:2024 as also asked in the main BBNL tender is also	As per TEC for EMS of router, the NEs in the network communicate with their respective eMS. The NE-specific eMS's communicate via standard protocol,

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					acceptable . The section refers to PART-III eMS/NMS REQUIREMENTS 3.22 in TEC 48050:2024 -- Kindly confirm if the same can be referred here for compliance . Also relax the multivendor support or allow for 3rd party NMS	through the northbound interface to a higher-level NMS that provides integrated multivendor network management
126		NA	NA	No Refernece	We understand that the supply and installation of DWDM equipment falls under the scope of GFGNL , Please confirm	Yes. Pls see revision
127		NA	NA	No Refernece	We understand that DWDM-related deliverables at the Master Block / Block / DHQ level solely the responsibility of GFGNL	Yes. Pls see revision
128		NA	NA	No Refernece	We understand that provisioning of bandwidth for 10G,100G or higher-capacity links is responsibility of GFGNL and Further connectivity and interface matching is responsibiity of GFGNL. As PIA , We will only terminate the cable at Master Block, Sub Block or Block location	Service provisioning is the responsibility of PIA and for that we are paying O&M.
129		NA	NA	No Refernece	We understand Adequate Power Backup at Block/Sub Block / Master Block /DHQ is in scope of GFGNL to ensure uptime.	Pl see precending response
130		7.9.10	260	OFC CUT RESTORATION AND ASSOCIATED PENALTY CALCULATION	We kindly request to revise the number of OFC cuts per 1000 Km OFC is 15 Per Quarter as per Market benchmark as even	Duplicate query, pl see preceding response.

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					the best of the telecom companies is following the same (15 cuts per 1000 km per quarter). Please review and revise	
13 1		7.C, 8.C	142	Accessible joint closure to be housed in Manhole chamber along with route marker and should be 90% of accessible chamber.	The quantity of Open Joints can cannot be envisaged – Requesting to please provide rate card for making open joints in MH along with route markers.	EPC project.
13 2		15	142/143	<p>a) For rectification or replacement of the % work scope is expected as below, For Phase-I, In between of 10% to 20% of existing network, For Phase-II, In between of 5 % to 10% of existing network .</p> <p>(For Phase-I, In between of 10% to 20% of existing network shall be paid by the GFGNL. At the same time, beyond opted limit in between 10% to 20%, the PIA have to do that replacement without cost to GFGNL.</p> <p>For Phase-II, In between of 5 % to 10% of existing network shall be paid by the GFGNL. At the same time, beyond opted limit in between 5% to 10%, the</p>	We undertand the predeifned rates for rectification are at page 500 / 501	Pls refer RFP

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				PIA have to do that replacement without cost to GFGNL.)		
133		Note	152	All the sub-block/block locations, one FDMS and one ETSI standard transmission rack are to be supplied and factored in the bid. In case, if existing rack space and FDMS space are available to fulfill the terminal requirements and are permitted by GFGNL, then in lieu of non-supply of above rack, GFGNL shall deduct Rs. 20,000 per each rack (FDMS or equipment rack)	The deduction mentioned in tender for space available at Block Location , Please clarify that 20000 will be deducted for both FDMS and Rack Space each or It will be unit cost for space for each component in the rack	GFGNL shall deduct Rs. 20,000 per each rack (FDMS or equipment rack)

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134		12	142	12. PIA has to ensure Ring Criteria as per below: a) The number of GPs in a GP ring shall normally be around Six (6) to Seven (7). b) The number of GPs in a child GP ring shall be maximum five (5).	Please allow GPs in ring upto 8 GPs.	As per RFP
135		5.5	160	The final acceptance (commissioning) shall cover 100% of the network for the Gram Panchayat at Block level as well as at Gram panchayat (GP), after successful testing by State/SIA or its nominated agency.	We request to do AT at Sub-Block Ring level for faster integration of Network	Pls refer RFP clause: "The final acceptance (commissioning) shall cover 100% of the network for the Gram Panchayat at Sub-Block level as well as at Gram panchayat (GP), after successful testing by State/SIA or its nominated agency."
136		144 (16,17) 163-5.7	144 + 163	Permissible limit for use of alternative technology for GP ring closure – in Kutch is 20% Permissible limit for use of alternative technology for GP Up to 6% of Total GPs of respective package (For package-B excluding Kutch).	Please allow more of Alternate Technology upto 10% of Package for faster execution of project in tough terrain	Permissible limit for use of alternative technology for GP Up to 6% 8% of Total GPs of respective package (For package-B excluding Kutch).

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137		V	168	The PIA is required to terminate such OFCk at an appropriate location in the village in a minimum 16 pair FTB (TEC/GR/TX/FTB-02/02/APR-2010 with latest amendments if any and RFP requirements) and at the GP FDMS/FTB from where connectivity extended to revenue villages either with a new mini-OLT or using splitters and the mini-OLT installed at the GP	Last mile village connectivity if on 6F , Please review the purpose of 16 Pair FTB as only 6F is getting terminated at village.	It may be chance to connect villages in cascading manner from GP. Hence, 12 Pair FTB with applicable TEC will be allowed
138		V	168	The PIA is required to terminate such OFCk at an appropriate location in the village in a minimum 16 pair FTB (TEC/GR/TX/FTB-02/02/APR-2010 with latest amendments if any and RFP requirements) and at the GP FDMS/FTB from where connectivity extended to revenue villages either with a new mini-OLT or using splitters and the mini-OLT installed at the GP	Please review the purpose of 16 Pair FTB at GPs with village connectivity since only 6F are getting connected with GP and Villages.	Pl see precending response
139		G. Table	171	As per Tender , all ROW permission are to be applied within 60 Dats	We kindly request to resvise the ROW permission apply timelines to 120 Days	Considering the critical project of the nation,there is no change in the clause

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140		VII.	174	A block network will only be considered active (100% go-live) when all GPs will be operational on MPLS network at last mile.	We request to revise 100% Golive at SubBlock-Ring Level with 100% of GPs will be operational on MPLS network at last mile.	Pls refer RFP clause: "A Sub-block network will only be considered active (100% go-live) when all 95% of GPs will be operational on MPLS network at last mile"

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