

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

Reference No: GFG/DST/BharatNet/Connectivity through Bharatnet/2021/642

17th Nov 2021



Gujarat Fibre Grid Network Limited (GFGNL)
A Government of Gujarat Company
Block No: 1, 8th Floor, Udyog Bhavan, Sector-11, Gandhinagar 382010

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

A. Invitation to Bid

- a. Gujarat Fibre Grid Network Limited (GFGNL) is inviting bids from the eligible bidders for **“Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network (Reference No: GFG/DST/BharatNet/Connectivity through Bharatnet/2021/642)”**. GFGNL intends to select the agency by inviting the proposals through open tender process. Bids complete in all respects should be uploaded on or before the bid due date mentioned in the RFP document.
- b. The Bid Security and non-refundable bid processing fees in a separate sealed envelope super scribed with the bid document number to be submitted to GFGNL office before the last date & time of submission of bids as mentioned in the RFP document.
- c. Tender documents are available only in electronic format which Bidders can download free of cost from the website <https://www.dst.gujarat.gov.in>, <https://bharatnet.gujarat.gov.in>, <https://gil.gujarat.gov.in/> & <https://www.gfgnl.nprocure.com>
- d. The bids have been invited through e-tendering route i.e. the eligibility criteria, technical bid document and financial stages shall be submitted online on the website <https://gfgnl.nprocure.com>
- e. Bidders who wish to participate in this bid will have to register online. Bidders who wish to participate in online bids will have to procure Digital Certificate as per Information Technology Act, 2000 using which they can sign their electronic bids.
- f. Bidders can procure the same from (n) code solutions – a division of GNFC Ltd., or any other agency licensed by Controller of Certifying Authority, Government of India. Bidders who already have a valid Digital Certificate need not procure a new Digital Certificate.
- g. In case of any clarifications required, please email your queries as per the format prescribed in the RFP to jte-ho8@bharatnet.gujarat.gov.in, pmc@bharatnet.gujarat.gov.in & pmc1@bharatnet.gujarat.gov.in e-mail IDs on or before the date mentioned in the RFP document.
- h. Accessibility of Tender Document: The Tender Document to participate in e-Tender shall be available for downloading from <https://gfgnl.nprocure.com>. The Tender document shall not be available for download on or after its submission/ closing date as mentioned in the RFP document.

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BharatNet Network**

B. Notice Inviting Proposal and Necessary Instruction

Applications in prescribed proforma are invited by Gujarat Fibre Grid Network Limited (GFGNL) from eligible parties for establishing various connectivity from Gram Panchayats (GPs) connected in BharatNet Network.

1.	Scope of Work	Establishing various connectivity from Gram Panchayats (GPs) connected in BharatNet Network and O&M of connectivity for entire contract period.
2.	Tender submission Cost	Rs. 15,000 /- (Rs. Fifteen Thousand Only) In the form of Demand Draft in favor of "Gujarat Fibre Grid Network Limited" drawn on any scheduled bank and payable at Ahmedabad/Gandhinagar.
3.	EMD (bid Security / Security deposit)	Rs. 3,00,000 /- (Rs. Three Lacs Only) per zone Demand Draft in favor of "Gujarat Fibre Grid Network Limited" drawn on any scheduled bank and payable at Ahmedabad/Gandhinagar OR EMD in the form of bank guarantee with validity of 180 days from the last date of bid submission in favor of "Gujarat Fibre Grid Network Limited" from <ul style="list-style-type: none">• All Nationalized banks including the Public sector banks - IDBI Ltd.• Private sector banks - AXIS Bank, ICICI Bank and HDFC Bank
4.	Office issuing RFP	Chief Finance Officer (CFO), Gujarat Fibre Grid Network Limited (GFGNL), Block No: 6, 5th Floor, Udyog Bhavan, Sector-11, Gandhinagar: 382010.
5.	Contract Period	5 years from the date of issue of WO which can be extended further for next 2 years.
6.	Bid validity days	180 days from the last date of submission of bids
7.	Issue of Tender	The tender can be downloaded from below websites. https://www.gfgnl.nprocure.com , https://www.dst.gujarat.gov.in , https://gil.gujarat.gov.in/ , https://bharatnet.gujarat.gov.in

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8.	Pre-Bid	Pre-bid will be held on 25.11.2021 at 03:00 pm at Gujarat Fibre Grid Network Limited (GFGNL), Block No: 6, 5th Floor, Udyog Bhavan, Sector-11, Gandhinagar: 382010
9.	Proposal due date (last date & time of Tender submission)	Tender should be submitted before 08.12.2021 at 02:00 pm. Bidder shall upload their bids on https://www.gfgnl.nprocure.com
10.	Date & Time of opening of Tender	Technical Qualification documents will be opened on 08.12.2021 at 03:00 pm in the presence of bidders' representatives. Qualified bidders would be subsequently informed later about the date, time and venue for price bid opening.
11.	Contact persons (for any Clarifications)	Chief Finance Officer (CFO), Gujarat Fibre Grid Network Limited (GFGNL), Block No: 6, 5th Floor, Udyog Bhavan, Sector-11, Gandhinagar: 382010

C. Clarifications on the RFP

A prospective bidder requiring any clarification on the RFP Document may submit its queries, via email only, to jte-ho8@bharatnet.gujarat.gov.in, pmc@bharatnet.gujarat.gov.in & pmc1@bharatnet.gujarat.gov.in on or before the date of pre-bid meeting as mentioned in the RFP document. GFGNL will host a Pre-Bid meeting as mentioned for queries (if any) by prospective bidders. GFGNL encourages prospective bidders to clarify their doubts/seek clarification or additional information necessary for them to submit their bid. The representatives of the bidders may visit the GFGNL office at their own cost for any clarification(s). The queries should necessarily be submitted before pre-bid meeting date in the following softcopy format and **should be in Microsoft Excel only** (.xls or .xlsx formats):

Sr.	RFP Document Clause/ Section No.	Clause Title	Page No.	Content of the RFP Requiring Clarification	Clarification Sought

(No PDF or Scanned images)

Queries submitted post the above-mentioned deadline, or which do not adhere to the above-mentioned format may not be responded to. All the responses to the queries (clarifications / corrigendum) shall be made available on the website mentioned in the necessary instructions and shall not be communicated through print media.

D. Proposal/Bid Submission & Evaluation

a) Proposal preparation:

- i. The proposal should be short, concise & include all points indicated in the document.
- ii. The Proposal shall be typed or written in indelible ink and should be in English. Proposal in other language would not be accepted. The pages and volumes of each part of the Proposal shall be clearly numbered. The Proposal shall contain all the information required herein and references of previous submissions shall not be considered
- iii. The bidders shall bear all costs associated with the preparation and submission of their proposals.
- iv. At any time before the submission of Proposals, GFGNL may amend this document by issuing an addendum / cancel the process of procurement, which shall be binding on the bidders.

b) Proposal Submission:

- i. Bids (Technical bid & Financial bid) shall be submitted online on <https://www.gfgnl.nprocure.com>
- ii. The participating Bidders in the tender should register themselves on e-procurement portal, if not registered earlier.
- iii. The Bidders can login to e-procurement portal in secure mode only by signing through the Digital certificates.
- iv. The Bidders should scan and upload the respective documentary evidence as mentioned in Eligibility Criteria.
- v. The bidders shall sign on all the statements, documents, certificates uploaded by them, owning responsibility for their correctness/authenticity.
- vi. The financial bid details should be quoted in the financial bid format attached with the tender and upload online only.
- vii. Bidders are required to upload the scanned copy of Bank Guarantee and/or Demand draft for EMD and Tender Fee (as mentioned in this RFP) at online bidding portal. Further, original Bank Guarantee and/or Demand Draft for EMD and Tender Fee must be submitted in a sealed envelope mentioning “EMD and Tender fee” to GFGNL office before due Date and Time for Submission of Bids as mentioned in RFP.

c) Proposal Evaluation:

- i. The evaluation of the bid will be considered of only those bidders who
 - have furnished bid fee and security deposit of prescribed amount as per the tender
 - meet the eligibility criteria as mentioned in the RFP document and have furnished documentary proof in respect of the same
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- ii. The bids of the non-conforming bidders to above shall be rejected without evaluation.
- iii. The proposal shall be evaluated in three (3) stages. In Stage – 1, EMD & DD shall be verified. Bidders whose EMD & DD are valid will be considered for Stage – 2. In Stage – 2, technical documents will be verified. Only those bidders who will be qualified in Stage – 1 & 2 will be eligible for Stage – 3 i.e. Financial evaluation.
- iv. The evaluation of proposals shall be on the principle of Lowest Bid (L1) based on quoted rates as per the financials submitted as part of the bid.
- v. Agency/Bidder is required to furnish the commercial quote as mentioned under financial bid format. Revelation of commercial details elsewhere in the bid documents other than the specified price bid format shall lead to disqualification of the bid.
- vi. GFGNL reserves the right to discard bids which are deviating from the specified formats mentioned in the RFP.

E. Sections Comprising Bids

The proposal shall be submitted online and shall comprise of following sections:

Part – I : Bid Security

- a. Bidders are required to upload the scanned copy of Bank Guarantee (Annexure – IV) and/or Demand draft for EMD and Tender Fee (as mentioned in this RFP) at online bidding portal. Further original Bank Guarantee and/or Demand Draft for EMD and Tender Fee must be submitted in a sealed envelope mentioning “EMD and Tender fee” to GFGNL office before due Date and Time for Submission of Bids as mentioned in “Notice Inviting Proposal and Necessary Instruction”.

Part – II : Pre-qualification cum Technical Bid: Pre-qualification bid must contain the following information in pdf format.

- a. Bid document checklist (Annexure – I)
- b. Bid submission Cover Letter (Annexure – II)
- c. Bidder’s information sheet (Annexure – III)
- d. Copy of valid GST registration
- e. Copy of valid PAN card
- f. Undertaking by the bidder for not being barred by any State/ Central Government/PSU (Annexure – VI)
- g. Response to Eligibility criteria: All required documents for compliance as mentioned in section of “Eligibility Criteria”.

Part – III : Financial Bid :

- a. Financial Bid (Annexure – VII)

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Note : All pages of the bid documents must be signed by the authorized signatory of company.

F. Naming Convention for files

The bidders need to strictly follow the below mentioned File Nomenclature rules while uploading the documents in the bidding portal. For documents mentioned under Eligibility Criteria, the file naming should be: Eligibility_Criteria_[Document _Name] For example:

- Eligibility_Criteria_Copy_of_Certification_of_Incorporation
- Eligibility_Criteria_PAN_Card
- Eligibility_Criteria_GST Registration
- Eligibility_Criteria_Financial_Statement_Turnover
- Eligibility_Criteria_Financial_Statement_Networth
- Eligibility_Criteria_OEM_PO Copy
- Eligibility_Criteria_OEM_Undertaking Letter
- Eligibility_Criteria_Self_Declaration_Blacklisting

For the documents in Annexures, the file naming should be: Anx_[S.no of Annexure]_[Annexure Name]

For example:

- Anx_I_CoverLetter
- Anx_II_Bidder Information Sheet

In case of any large file (exceeding 3MB) which need to be split in two parts or more, the naming should be:

- Anx_I_CoverLetter_Part_1
- Anx_I_CoverLetter_Part_2

For any other file not covered under this, should be named appropriately as per its contents. All files should be in pdf formats and should not be password protected or encrypted. The files should not be zipped. Any other format of the file other than pdf shall not be considered as part of the submitted bid.

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1. Introduction

- 1.1. Gujarat Fibre Grid Network Limited (GFGNL) is an SPV established under aegis of Department of Science & Technology (DST), Government of Gujarat to implement BharatNet Phase II Project. GFGNL is planning to extend BharatNet connectivity from respective Gram Panchayat (GP) to various offices/Locations of GoG at the village level.
- 1.2. GFGNL has implemented BharatNet Phase – II network in Gujarat in two different packages. Package – A has 3 islands in Rest of Gujarat and Package – B has 1 island in Saurashtra region. Package – A has 12 districts & Package – B has 10 districts. Further, both the packages are divided into two zones. Package A has two zones i.e., Vadodara zone & Surat zone and Package B has two zones i.e., Ahmedabad zone & Rajkot zone. Detailed information of block wise no. of GPs for each district will be provided to the selected bidders after contract signing with GFGNL. Bidders are also requested to get the technical information about the network implemented by GFGNL by referring to the RFP (Request for Proposal (RFP) for Selection of Project Implementing Agency for BharatNet Phase-II project in the State of Gujarat under Gujarat Fibre Grid Network Limited (Package A &B)). GFGNL’s Network comprises of the various technology equipment including GPON, DWDM, Ethernet & RFMS.

Details of zone wise districts for Package A & Package B

Name of district of Package - A	
Vadodara Zone	Surat Zone
Aravalli	Dang
Banaskantha	Narmada
Dahod	Bharuch (only Ankleshwar block)
Mahisagar	Surat
Panchmahal	Tapi
Vadodara (only Padra block)	Valsad (only Pardi, Valsad, Umbergaon & Dharampur blocks)

Name of district of Package - B	
Ahmedabad Zone	Rajkot Zone
Ahmedabad	Devbhoomi Dwarka
Botad	Jamnagar
Gir Somnath	Morbi
Junagadh	Rajkot
Mehsana (only Kadi block)	Surendranagar

- 1.3. GFGNL intends to select zone wise bidder(s) who can perform “Scope of Work” as mentioned in below clause to extend BharatNet network beyond GP (Gram Panchayat).
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- 1.4. There are 7900+ GP locations covered under BharatNet Phase – II. Selected bidders shall have to connect various offices/locations of Government departments like Health department, Home department, Education department, Finance department, Electricity department etc. with BharatNet Phase – II network to get internet & intranet connectivity with Gujarat SDC. BharatNet Phase – II Network covers almost 50% of geography of Gujarat state. This information is provided to bidders so that they can get an idea about the likely scope available under this RFP. The scope of this RFP is not limited to above.
- 1.5. GFGNL / DST / GoG is not giving any guarantee to any bidders about the timeline to provide the Government office / school locations for connectivity. These locations will be offered to selected bidders for connectivity as per the requirement & fund availability with the respective departments. Selected bidders will be free to connect these locations based on technical feasibility & approval available from GFGNL.

2. Scope of Work (SoW) for the bidder

- 2.1. Selected bidders will be responsible to carry out below mentioned activities (not limited to) for successfully connecting & integrating customer location with GFGNL's Network and activating the services.
 - 2.1.1. Carry out field survey of each site / customer location to decide last mile connectivity option, preparation of field survey report (kmz / kml file showing proposed connectivity and details of proposed connectivity in excel file) and submission of same to GFGNL for approval. GFGNL official may suggest changes in connectivity plan of any site / location w.r.to details captured in survey report considering any future requirements. Selected bidder(s) will implement connectivity as per final instruction & approval given by GFGNL officials.
 - 2.1.2. Implementation of last mile connectivity through wireline (UG OFC / aerial drop fibre cable / Cat 5 cable) / wireless (P2P / P2MP unlicensed band radio) media including newer technologies like FSO / Li-Fi / PLCC (Power line communication Carrier) etc. provided all necessary approvals are available from competent authority in India to deploy the equipment of newer technology.
 - 2.1.3. Supply, installation, testing & commissioning and acceptance testing (field AT) of the required network components like OFC drop cables, HDPE PLB duct, radios, rack, pole, mast, CPE (router, switch), media converter (Optical to Ethernet converter), required accessories, any intermediate devices and other items required for the provisioning of the services as per site requirement. In case if any material will be rejected in field AT by GFGNL official / official of any designated party appointed by GFGNL due to non-compliance to RFP requirement, than selected bidder will have to replace that material by supplying & installing fresh material as per the terms & conditions of the RFP without
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any additional cost to GFGNL.

- 2.1.4. Software upgrades for the last mile networking components such as routers, switches etc. installed by the bidder for smooth functioning of the Network & customer link.
- 2.1.5. Preparation of the as – build drawing (wherever applicable) for the installed link & facilitating GFGNL / GFGNL's existing vendor to update details of the customer connectivity in GFGNL's GIS and NMS application as per GFGNL's requirement.
- 2.1.6. Selected bidder will have to supply EMS (Element Management System) for each active components like radios, router, switch, optical to etc. so that required alarms can be monitored to know the up / down status of the equipment. Further, selected bidder & their OEM partners will have to facilitate integration of all these EMSs with GFGNL's existing NMS (Network Management System) through API or any other suitable mechanism as per the requirement of GFGNL's NMS application and up to the satisfaction of GFGNL.
- 2.1.7. Carry out operation & maintenance of the last mile link including all the field activities required (preventive & corrective maintenance) to keep all the links up & running. It will be successful bidder(s)' responsibility to rectify / restore the link in case any cable is damaged due to road widening / by any third party.
- 2.1.8. Maintenance, support services, warranty, annual maintenance contract etc. in respect of equipment supplied to the customer. All the active equipment, voltage stabilizer ,UPS & 6U rack must be supplied with warranty of 5 years and all required licenses.
- 2.1.9. Bidder will have to fulfill all the RoW / permission related formalities of all the Government departments for the implementation of last mile connectivity including preparing & submitting RoW / permission applications, liasoning & follow up, collecting payment from GFGNL offices & submitting to department's offices, receipt of permission letter from department's offices, refund of BG / SD from respective department within 6 months of work completion or as per guideline of respective department (whichever is earlier) etc. In case bidder fails to get refund of BG / SD in stipulated time period, GFGNL will have all the rights to recover BG / SD amount from the payables / PBG of the selected bidder. If bidder damages any assets of any of the department / 3rd party organization & department / organization issues any notice / demand note to GFGNL / selected bidder, than selected bidder will have to rectify the damages at earliest as per instruction of the respective department / organization / GFGNL official failing which GFGNL will have all the rights to recover demand note amount from the payables / PBG of the selected bidder.
- 2.1.10. All the customer locations falling in any particular block boundary will be served by the selected bidder to whom the block is awarded. Selected bidder can serve the customer location from the nearest Gram Panchayat (GP) location even if the nearest

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GP is falling in neighboring block / district which may have been allotted to other selected bidder.

2.1.11. Successful bidder(s) will have to supply all required optical & Cat 6 patch cords, SFP (if any), all required accessories with active / passive equipment to make the customer link live & all required licenses for all the ports & services of active equipment for entire contract period.

2.2. Selected bidders will have to adhere to below guidelines (not limited to) while executing the work.

2.2.1. OFC installation through open trenching & ducting and HDD

2.2.1.1. Selected bidder will have to excavate trench of 1 mtr depth from the top of the surface with minimum trench width of 300 mm at the bottom of the trench.

2.2.1.2. In case, trench depth is not achieved because of any utilities present or any other reason, selected bidder will have to apply below mentioned protection. All related material line items will be certified & paid to selected bidder for the protection used and service cost of excavation of trench (Financial bid table line item A1) will be reduced proportionately for reduced depth.

Sr. No.	Depth of Trench	Recommended Protection
1.	800 mm to 1000 mm	No protection required
2.	500 mm to 800 mm	65 mm DWC pipe
3.	Less than 500 mm	100 mm dia ON SITE pcc

2.2.1.3. Selected bidder shall de-coil 40 mm HDPE pipe with the help of mechanical de-coilers.

2.2.1.4. Selected bidder shall use simplex plugs to close the duct openings to avoid ingress of mud, water or dust. Selected bidder shall use duct coupler & other accessories as per field requirement & instruction from GFGNL official / any other designated official.

2.2.1.5. Selected bidder shall do necessary co-ordination with other utility companies prior to the excavation works and shall be fully responsible for damage (if any) caused to any utilities of other organization due to negligence. Selected bidder will indemnify GFGNL from all the claims of other organization in such cases of damage.

2.2.1.6. Selected bidder shall ensure manufacturer's guidelines for minimum bend radius and tension are followed while installing the OFC.

2.2.1.7. Selected bidder shall keep minimum total 20 mtr loop in each Man hole & Hand hole, properly coiled and tied with cable ties.

2.2.1.8. Selected bidder shall use Mid-Span Access Buffer Tube Slitter during mid-span splicing (for last mile location connectivity) to ensure that buffer jackets of fiber tubes

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are cut longitudinally to access all fibers inside tube and then only required fiber cores will be cut for splicing with fiber cores of last mile cable.

- 2.2.1.9. Selected bidder shall carry out bi-directional OTDR & LSPM testing of all fibre cores. Acceptable link attenuation/loss in dB per link (between 2 locations) to be calculated as per below. Bidder will have to ensure timely calibration of testing devices.
For 1310 nm : 0.34 dB attenuation / Km + 0.1 dB / splice + 1 dB connector loss
For 1550 nm : 0.22 dB attenuation / Km + 0.1 dB / splice + 1 dB connector loss
- 2.2.1.10. Selected bidder will prepare & submit all required reports like ITP sheet, OFC blowing report, splicing report, testing report, As – build drawing etc. for all OFC connectivity. Report formats will be provided to selected bidder after contract signing.
- 2.2.1.11. During maintenance of the network, selected bidder shall ensure that all fibre cores are spliced at the cut location (and not only live fibre cores) during rectification process. State/SIA/any third party as appointed may audit the health / continuity of all fibre cores at any time and PIA will have to facilitate this exercise by performing LSPM and OTDR testing in presence of this team.
- 2.2.1.12. For OFC installation through HDD method, selected bidder will have to prepare & submit required graph showing the details of HDD shot, OFC depth etc.

2.2.2. Aerial drop OFC installation

- 2.2.2.1. Selected bidder will have to install drop fibre aerial cable on existing pole / new pole / suitable structure as per requirement of field and instruction of GFGNL official / any other designated official.
- 2.2.2.2. Selected bidder shall ensure manufacturer's guidelines for minimum bend radius and tension are followed while installing the OFC.
- 2.2.2.3. Selected bidder shall keep aprx. total 10 mtr loop on each pole as per field feasibility.
- 2.2.2.4. All guidelines related to splicing & testing will be applicable as mentioned in section 2.2.1 above, additional tolerance of 10% allowed here.

2.2.3. Installation of radios

- 2.2.3.1. Selected bidder will carry out LoS (Line of Sight) survey for all the locations to be connected on wireless media and prepare & submit a detailed report to GFGNL mentioning the height of pole / mast required to be installed along with proposed equipment details.
- 2.2.3.2. As per the space feasibility & instruction of GFGNL official / any other Government official, selected bidder will install pole / mast for the link.
- 2.2.3.3. Selected bidder will have to comply to all the rules & regulations of DoT / TRAI / GoI / WPC / SACFA / any other statutory body for wireless links.

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- 2.2.3.4. Selected bidder will install radio equipment with proper insulation to avoid rainwater going inside radio equipment & damaging it.
- 2.2.3.5. After link installation, selected bidder will have to perform link testing to ensure adequate signal strength of received signal as per test schedule defined by GFGNL and instruction of GFGNL official / other designated official.
- 2.2.3.6. Selected bidder will be responsible to restore the link as a scope of O&M of the link if radio equipment is damaged due to issues like rain, cyclone, lightening, earthing issue, voltage surge etc.

- 2.2.4. Installation of indoor & outdoor Cat 5 cable
 - 2.2.4.1. All the locations falling near to the Gram Panchayat (GP) location will be connected using 4 pair unshielded twisted pair Cat 5 cable wherein the total cable length required to connect the location from L2 switch available at GP will not be more than 90 Mtr.
 - 2.2.4.2. It is selected bidder's responsibility to use either indoor or outdoor Cat 5 cable as per field suitability & requirement and as per instruction of GFGNL's official.
 - 2.2.4.3. Outdoor Cat 5 cable must have HDPE jacket so that it can be installed under ground (wherever required) & the cable must be rugged, durable & rodent resistant.
 - 2.2.4.4. High power electrical plant may produce switching transients and radio frequency emissions that may induce interference on the Cat 5 cable. Therefore, in addition to the rules imposed by the IEE Regulations, data cables shall not run parallel to aables, especially where these cables may carry heavy switching loads. If, however, this is unavoidable it is advisable to keep cables as far as possible.

3. Scope of Work (SoW) for GFGNL

- 3.1. To build / extend the OFC Network up to Gram Panchayat. List of service ready Gram Panchayats will be shared with the selected bidder on routine basis. As on date, GFGNL has already lit up >95% GPs.
 - 3.2. To implement & maintain BharatNet GPON Network up to Gram Panchayat.
 - 3.3. GFGNL will provide raw AC power supply and earthing (if required) at Gram Panchayat (GP) for the last mile equipment to be installed by the selected bidder. In case, proper earthing is not available at GP location, GFGNL's official / any other designated official will instruct selected bidder to implement new earthing pit and accordingly the line item quantity will be certified and paid. Selected bidder will be responsible to supply & install power cable from tapping point to rack as per site requirement at no additional cost to GFGNL.
 - 3.4. GFGNL will provide space to install one 6U wall mount rack (if required) at GP location. GFGNL will also facilitate for fibre cable entry inside GP building. Bidders are requested to note that
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GFGNL discourages fresh installation of 6U rack at GP location. Bidders will have to analyze the space availability inside GFGNL’s rack which is already available at GP location during survey & will have to make all the efforts to install new equipment for customer connectivity into existing rack. Only in case of technical non-feasibility, GFGNL will allow bidders to install new 6U rack.

- 3.5. For wireless links, GFGNL / concerned Government Department official will allow to install 3 mtr pole on the terrace of the GP building if civil structure of the GP building seems capable to take a load of the pole. In such case, selected bidder will have to ensure no water seepage after pole installation. In case water seepage happens, selected bidder will have to implement all required remedial action(s) at his own cost to the satisfaction of Gram Panchayat Department official / GFGNL official / any other Government official.
- 3.6. For wireless links requiring installation of >3 mtr pole, GFGNL / concerned Government Department official will try to facilitate availability of required space in the GP campus for the installation of pole. However, it is expected from the bidder to adopt technology that is commensurate with the available infrastructure at site.
- 3.7. GFGNL will be responsible to provision required bandwidth in the BharatNet Phase – II Network between L2 switch installed at GP location and SDC (State Data Centre). GFGNL will provide electrical ethernet port on L2 switch at all GP locations for connecting customers.
- 3.8. GFGNL will support the selected bidder to get RoW permission from respective Government departments. All type of RoW charges, BG/SD require by RoW agency will be paid by GFGNL.

4. Eligibility Criteria

- 4.1. Bidders qualifying against below mentioned criteria will be eligible to participate in this RFP.
- 4.2. As Bidder is allowed to make a consortium, “Lead Bidder” in below table & note under the table will be read as Sole Bidder in case of no consortium & Lead Bidder in case of consortium.

Sr. No.	Criteria	Documents Required			
1.	The Lead Bidder and Consortium member must be registered in India under Companies Act 1956 or 2013 at least for 3 years as on 31/03/2021.	Certificate of Incorporation			
2.	The Lead Bidder’s Average Annual Turnover & Net worth must be as per below during last 3 years. (Purely from Telecom service business)	Copy of the last three years (i.e. 2018-19, 2019-20 & 2020-21) audited financial statements /Audited Balance Sheet along with CA Certified Statement for turnover & net worth.			
	<table border="1"> <tr> <td align="center">Bidder’s</td> <td align="center">Average</td> <td align="center">Net worth</td> </tr> </table>	Bidder’s	Average	Net worth	
Bidder’s	Average	Net worth			

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Sr. No.	Criteria			Documents Required
	participating in	Annual Turnover (Rs.)	(Rs.)	
	1 zone	>= Rs. 5 Cr	>=Rs. 50 Lacs	
	2 zones	>= Rs. 10 Cr	>=Rs. 1 Cr	
	3 zones	>= Rs. 15 Cr	>=Rs. 1.5 Cr	
	4 zones	>= Rs. 20 Cr	>=Rs. 2 Cr	
	The Consortium member's Average Annual Turnover must be >= Rs. 5 Cr & Net worth must be >= 50 Lacs during last 3 years (Purely from Telecom service business) irrespective of number of zones considered by the Consortium for bidding.			
3.	The Lead bidder or Consortium member must have experience of Laying, Installation, Testing, Commissioning & Maintenance of Optical Fibre Cable (Underground or Aerial), Duct and accessories as per below in last 3 years as on bid submission date.			(Work order / Purchase order / Contract) And Work Completion Certificate Note – 1: Bidder will have to produce necessary supporting documents other than mentioned above to clearly prove completion of work in last 3 years. Note – 2: Bidder can submit separate documents for Project and O&M experience.
	Bidder's participating in	Experience (Km)		
	1 zone	>= 500 Kms		
	2 zones	>= 1000 Kms		
	3 zones	>= 1500 Kms		
	4 zones	>= 2000 Kms		
4.	The Lead bidder or Consortium member must have experience of Installation, Configuration, Testing, Commissioning & Maintenance of wireless links (licensed or unlicensed band radio) as per below in last 3 years as on bid submission date.			(Work order / Purchase order / Contract) And Work Completion Certificate Note – 1: Bidder will have to produce necessary supporting documents other than mentioned above to clearly prove completion of work in last 3 years. Note – 2: Bidder can submit separate documents for Project and O&M experience.
	Bidder's participating in	Experience		
	1 zone	>= 200 links		
	2 zones	>= 400 links		
	3 zones	>= 600 links		
	4 zones	>= 800 links		

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Sr. No.	Criteria	Documents Required										
5.	<p>The Lead bidder or Consortium member must have experience of Installation, Configuration, Testing, Commissioning & Maintenance of customer premise equipment (CPE) as per below in last 3 years as on bid submission date.</p> <table border="1" data-bbox="305 489 930 688"> <thead> <tr> <th data-bbox="305 489 651 525">Bidder's participating in</th> <th data-bbox="656 489 930 525">Experience</th> </tr> </thead> <tbody> <tr> <td data-bbox="305 531 651 567">1 zone</td> <td data-bbox="656 531 930 567">>= 300 CPEs</td> </tr> <tr> <td data-bbox="305 573 651 609">2 zones</td> <td data-bbox="656 573 930 609">>= 600 CPEs</td> </tr> <tr> <td data-bbox="305 615 651 651">3 zones</td> <td data-bbox="656 615 930 651">>= 900 CPEs</td> </tr> <tr> <td data-bbox="305 657 651 693">4 zones</td> <td data-bbox="656 657 930 693">>= 1200 CPEs</td> </tr> </tbody> </table>	Bidder's participating in	Experience	1 zone	>= 300 CPEs	2 zones	>= 600 CPEs	3 zones	>= 900 CPEs	4 zones	>= 1200 CPEs	<p>(Work order / Purchase order / Contract) And Work Completion Certificate Note – 1: Bidder will have to produce necessary supporting documents other than mentioned above to clearly prove completion of work in last 3 years. Note – 2: Bidder can submit separate documents for Project and O&M experience.</p>
Bidder's participating in	Experience											
1 zone	>= 300 CPEs											
2 zones	>= 600 CPEs											
3 zones	>= 900 CPEs											
4 zones	>= 1200 CPEs											
6.	<p>The Lead bidder or Consortium member must have minimum 1 (One) operational office in each district of the zone(s) for which bidder wants to participate in this RFP. In case bidder does not have office in District(s), bidder should give an undertaking to open an office in District(s) within 45 days from the date of award of work order.</p>	<p>Copies of any two i.e. Property Tax /Electricity /Telephone Bill/ GST Registration/ Lease agreement OR Undertaking to open Office in District(s), if selected within 45 days.</p>										
7.	<p>The Lead bidder and Consortium member must not have been blacklisted / banned / barred / declared ineligible / declared having dissatisfactory performance by any government / quasi-government authority in India for supply of materials/ carrying out Operations and maintenance work of similar nature.</p>	<p>An undertaking by an authorized signatory of the company needs to be submitted in this regard</p>										
8.	<p>The Lead Bidder should submit valid letter from each of the OEM (one and only one OEM for each component) - confirming the following: OEM shall ensure that all equipment / components / sub- components being supplied by them shall be supported for entire contract period. If the same is de-supported by the OEM for any reason whatsoever, The bidder shall replace it with an equivalent or better substitute that is acceptable to Tenderer without any additional cost to the Tenderer and without impacting the performance of the solution in any manner whatsoever.</p>	<p>Authorization letters / MAF (as per Annexure) from OEM/Vendors whose products are being quoted by the Bidder (only applicable to OFC, duct, radio, rack, media converter, router, switch & voltage stabilizer) Copy of valid Technical Specification Evaluation Certificate (TSEC) / Type Approval Certificate / AT certificate or copy of Application for fresh TSEC/TAC/AT certificate as applicable from each OEM whose products are being quoted by the Bidder.</p>										

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Sr. No.	Criteria	Documents Required
9.	The Lead bidder and Consortium member each must have minimum 50 technical team working for bidder directly on their role.	Self-certification by the bidder's HR head on bidder's letter head
10.	Bidder and OEMs of proposed solution from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with Competent Authority as per OM No. 6/18/2019-PPD dated 23 rd July 2020 issued by Department of Expenditure, Gol	Self-certification from bidder and OEMs on Non-Judicial stamp of Rs. 300/- in the prescribed format (Annexure – IX), separately.

Note – 1:

1. If any Lead bidder applying in more than 1 zone defaults on any qualification criteria, then bidder's entire bid will be disqualified for all the zones.

Note – 2 : Consortium Criteria

1. Bidder is allowed to make a consortium with only one other bidder.
2. One Consortium partner can tie up with only one lead bidder for this RFP irrespective of number of zones considered by the Consortium for bidding.
3. Any lead bidder or member of consortium cannot participate as a bidding entity (lead or consortium member) in any other consortium in this RFP.
4. Parent or child organization including a group company of any lead bidder & consortium partner cannot participate as a bidding entity (lead or consortium member) in any other consortium in this RFP.
5. In case of consortium, the Lead Bidder must be specified by the bidder.
6. In case of a consortium, applicant consortia shall have a valid Memorandum of Understanding (MoU) / Consortium Agreement among all the members signed by the CEO / Country Head / Authorized Signatories of the companies dated prior to the submission of the bid. The MoU / Consortium Agreement shall clearly state the composition of the consortium who shall be the Lead bidder, the complete description of the partner and roles & responsibilities of the partners.
7. The consortium bid submitted without valid MoU / Consortium Agreement shall be treated as non-responsive.
8. The contract shall be signed with the Lead Bidder only and the Lead Bidder shall be single Point of Contact for this Project. PBG shall be submitted by the Lead Bidder.
9. The payments for the said project shall be released only in the name of Lead Bidder.

[Signature of the bidder]

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10. Lead Bidder shall be solely responsible for any failure liable to the Government for the execution of the project in accordance with the terms & conditions of the bid document and a statement of this effect shall be included in the MoU / Consortium Agreement.

5. Selection criteria & allotment of work

- 5.1. GFGNL wants to on-board 1 selected bidder per zone for all 4 zones.
- 5.2. Bidder can submit bid(s) for as many zones as they want, but any successful bidder will be selected only for 2 zones. If any bidder wins in more than 2 zones, GFGNL will decide any 2 zones where successful bidder will be allotted work.
- 5.3. There are separate financial bid tables provided for each zone on (n)Procure website. Bidder wanting to participate in multiple zones will have to submit financial bids for each zone separately in respective table. Evaluation will be done separately for each zone. The bidder with lowest bid (L1 – lowest sum total of “Grand Total – CO” in financial bid of any zone) will be selected for each zone.
- 5.4. In case GFGNL will find any issue in the implementation work of any successful bidder in terms of quality or implementation timeline, GFGNL will have sole rights to exclude already allotted sites / customer locations from the scope of that bidder and “Risk Purchase” clause will be applied in such situation.

6. General Terms and Conditions

6.1. Agreement

- 6.1.1 The selected System integrators have to sign an agreement with GFGNL as per the format specified in the Annexure C.
- 6.1.2 **Duration of Agreement:** This agreement shall be valid for a period as mentioned in Sr. No. – 5 of clause – B (Notice Inviting Proposal and Necessary Instruction) above. If at any stage during the tenure of this agreement, it comes to the notice of GFGNL, directly or through some other complaint, that the Business Partner had misrepresented the facts or submitted any false information or hidden any information which could have affected the signing of this agreement with the Business Partner, this agreement shall stand terminated immediately under intimation to the Business Partner.
- 6.1.3 **Restrictions on Transfer of agreement:** The Business Partner shall not assign or transfer its right in any manner whatsoever under this agreement to a third party or enter into any agreement for sub-contracting and/or partnership relating to any subject matter of the agreement to any third party either in whole or in any part i.e. no sub-contracting/ partnership/ third party interest shall be created.
- 6.1.4 **Liability:** Except as provided in this Agreement, hereinabove, neither party shall be liable to other party or any other party by virtue of termination of this Agreement for any reason whatsoever for any claim for loss or profit or on account for any expenditure, investment, leases, capital improvements or any other commitments made by the other party in connection with their business made in reliance upon or by virtue of this Agreement.
- 6.1.5 The successful bidder shall sign a contract with GFGNL within 7 days of receipt of proforma contract from GFGNL; failing which their EMD and/or performance bank guarantee (PBG) shall be forfeited and GFGNL's decision to scrap the tender or negotiate with the second bidder (as per the final ranking) shall be binding on the first bidder.

6.2. Suspension of agreement:

- 6.2.1 GFGNL reserves the right to suspend the operation of this agreement, at any time, due to change in its own license conditions or upon directions from the competent government authorities. In such a situation, GFGNL shall not be responsible for any damage or loss caused or arisen out of aforesaid action. Further, the suspension of the agreement will not be a cause or ground for extension of the period of the agreement and suspension period will be taken as period spent.
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6.3. Performance Bank Guarantee

- 6.3.1 The successful bidder who is awarded the Work Order in any particular zone, that bidder shall be required to deposit a Performance bank guarantee (refer annexure V) of Rs. 15 Lacs for that particular zone in the form of unconditional Bank Guarantee from any scheduled bank in favor of "Gujarat Fibre Grid Network Limited, Gandhinagar (from all Nationalized banks including the Public sector banks - IDBI Ltd. Or Private sector banks - AXIS Bank, ICICI Bank and HDFC Bank) within 7 days of award of work, covering the period of contract and 180 days beyond the contract period. In case, the contract is further extended beyond the initial period, the Bank Guarantee will have to be accordingly extended/renewed by the successful agency/bidder. All incidental charges whatsoever such as premium, commission etc. with respect to the Bank Guarantee shall be borne by the successful bidder. Non-deposit of PBG within the stipulated time shall render the award of work invalid at the discretion of GFGNL.
- 6.3.2 If any bidder is selected in more than one zone, then bidder can submit one PBG with total amount required for all the zones (Rs. 15 Lacs * no. of zones) for which bidder is selected.

6.4. Earnest Money Deposit (EMD)

- 6.4.1 The EMD of unsuccessful bidders will be returned by the GFGNL, without any interest, as promptly as possible on signing of contract with the selected bidder or when GFGNL cancels the bidding process.
- 6.4.2 The Selected Bidder's EMD will be returned, without any interest, upon the Selected Bidder signing the Agreement and furnishing the performance guarantee in accordance with the provision thereof.
- 6.4.3 The decision of GFGNL regarding forfeiture of the EMD and rejection of bid shall be final and shall not be called upon question under any circumstances.
- 6.4.4 The EMD may be forfeited:
- a) If a bidder withdraws their bid or decreases their quoted prices / % during the period of bid validity or its extended period, if any; or
 - b) In the case of a successful bidder, if the bidder fails to sign the Contract or to furnish Performance Bank Guarantee within specified time.
 - c) During the bid process, if a bidder indulges in any such deliberate act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.

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- d) During the bid process, if any information found wrong/manipulated/hidden in the bid.

6.5. Terms and Conditions of Bidders

- 6.5.1 Printed terms and conditions of the Bidders shall not be considered as forming part of their Bids.

6.6. Revelation of Prices

- 6.6.1 Prices in any form or by any reason before opening the Financial Bid should not be revealed, failing which the offer shall be liable to be rejected.

6.7. Tenderer's Right to vary Scope of Contract

- 6.7.1 The quantities mentioned in financial bid tables are indicative and provided to enable the bidders to take a judgement about the volume of the scope of work in any zone. GFGNL doesn't provide any guarantee about the total number of locations to be allotted and timeline of allotment. GFGNL will keep issuing intimation orders to all the selected bidders as per the requirement of the respected Government departments and fund availability.

6.8. Confidentiality

- 6.8.1 The SI shall not use Confidential Information, the name or the logo of the Tenderer except for the purposes of providing the Service as specified under this RFP;
- 6.8.2 The SI shall not, either during the term or 6 months after expiration of this Contract, disclose any proprietary or confidential information relating to the Services, Contract or the network architecture, Tenderer's business plan or operations without the prior written consent of the Tenderer.
- 6.8.3 The SI may only disclose Confidential Information in the following circumstances to a member of the SI's Team ("Authorized Person") with the prior written consent of the Tenderer if:
- a. the Authorized Person needs the Confidential Information for the performance of obligations under this contract;
 - b. the Authorized Person is aware of the confidentiality of the Confidential Information and is obliged to use it only for the performance of obligations under this contract
- 6.8.4 The SI shall do everything reasonably possible to preserve the confidentiality of the

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Confidential Information including execution of a confidential agreement with the members of the subcontractors and other service provider's team members to the satisfaction of the Tenderer.

- 6.8.5 The SI shall be responsible for any breach of the confidentiality clause by its antecedents or delegates or its subcontractors.
- 6.8.6 The SI shall notify the Tenderer promptly if it is aware of any disclosure of the Confidential Information otherwise than as permitted by this Contract or with the authority of the Tenderer.
- 6.8.7 The Tenderer reserves the right to adopt legal proceedings, civil or criminal, against the SI in relation to a dispute arising out of breach of obligation by the SI under this clause.

6.9. Severance

- 6.9.1 In the event any provision of this Contract is held to be invalid or unenforceable under the applicable law, the remaining provisions of this Contract shall remain in full force and effect.

6.10. Compliance of laws

- 6.10.1 SI shall perform their duties in strict compliance with all applicable laws in India along with rules & regulations of the duly constituted Government authorities in India and shall obtain all licenses and necessary approvals, if any, required by laws in India in connection with the services to be rendered hereunder.
- 6.10.2 Services provided to the customers shall be subject to Indian Telegraph Act 1885 and DoT / TRAI directions.
- 6.10.3 SI shall be responsible for monitoring of data traffic from their customers w.r.to unlawful activities.
- 6.10.4 SI shall be responsible to set up all required Networking equipment for lawful interception (LI) and provide all the required logs necessary for lawful interception (LI) to any of the law enforcement agencies as and when required.

6.11. Indemnity

- 6.11.1 The SI shall indemnify and defend GFGNL and its representatives & employees and hold GFGNL, its representatives, employees harmless from:
 - a) Damages and losses caused by its negligent or intentional act or omission or any damages and losses caused by the negligent act of any third party or sub-contractor or agency engaged by the SI;

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- b) Damages and losses resulting from the non-compliance with the established obligations; Third Party claim against GFGNL or its nominated agency that any Deliverables/Services/Equipment provided by the SI infringes a copyright, trade secret, patents or other intellectual property rights of any third party in which case the SI shall defend such claim at its expense and shall pay any costs or damages that may be finally awarded against GFGNL or its nominated agency.
- c) Any environmental damages caused by SI and/or its representatives or employees or employees of any third party or sub-contractor or agency engaged by the SI.
- d) Breach (either directly by SI or through its representatives and/or employees) of any representation and guarantee declared herein by SI;
- e) Any and all claims, actions, suits, proceedings, taxes, duties, levies, costs, expenses, damages and liabilities, including attorneys' fees, arising out of, connected with, or resulting from or arising in connections with the services provided due to neglect, omission or intentional act.

6.12. Arbitration

6.12.1 Except otherwise provided in this RFP in the event of any question or interpretation of any clause, dispute or difference or to any other claim, right, matter or thing whatsoever in any way arising out or relating to this RFP whether arose during the progress of the work or after the cancellation, termination, completion or abandonment thereof, shall be settled by the parties amicably through negotiation within a period of 30 days of the notice by other party, failing which, the dispute shall be referred to a three member committee appointed by the BOD (Board of Directors), GFGNL. The arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act, 1996 or any statutory modification of re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings. In case of dispute not getting resolved by the aforementioned three-member committee, the Chief Secretary of Government of Gujarat shall appoint an arbitrator. The arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and shall give reasons for the award. The fee payable to arbitrator shall be paid equally by both the parties.

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6.13. Clarification

- 6.13.1 When deemed necessary, during the tendering process, the Tenderer may seek clarifications whenever, wherever required during the bid evaluation process on any aspect from any or all the Bidders. However, that would not entitle the Bidder to change or cause any change in the substance of the tender submitted or price quoted.
- 6.13.2 Tenderer reserves the right to seek clarifications on the already submitted documents.

6.14. Rejection Criteria

- 6.14.1 Besides other terms & conditions highlighted in the RFP, bids may be rejected under following circumstances:

General Rejection Criteria

- a. Bids submitted without or improper Tender fee and EMD.
- b. Bids received through Telegraphic / Fax / E-Mail / Hard copies except, wherever required.
- c. Bids which do not conform to unconditional validity of the bids as prescribed in the RFP.
- d. If the information provided by the Bidder is found to be incorrect / misleading at any stage / time during the bid evaluation process or during Contract period after selection of the bidder.
- e. Any effort on the part of a Bidder to influence the Tenderer's bid evaluation, bid comparison or contract award decisions.
- f. Bids received by the Tenderer after the last date & time for receipt of bids prescribed by the Tenderer in RFP.
- g. Bids without Power of Attorney and any other document consisting of adequate proof of the ability of the authorized signatory to bind the Bidder.

Technical Rejection Criteria

- a. Technical Bid containing financial details.
- b. Revelation of Prices in any form or by any reason before opening of the Financial Bids.
- c. Failure to furnish all information mentioned in the RFP or submission of a bid not substantially responsive to the RFP in every respect.

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- d. Bidders not quoting for the complete scope of work as indicated in the RFP, addendum (if any) and any subsequent information given to the Bidder.
- e. Bidders not complying with the material, specifications and General Conditions of the Contract as stated in the RFP.
- f. The Bidder not conforming to unconditional acceptance of all the terms and conditions set out in the RFP (and subsequent clarification/corrigendum, if any) document.
- g. If the bid does not conform to the timelines indicated in the RFP.

Financial Rejection Criteria

- a. Incomplete Financial Bid
- b. Financial Bids that do not conform to the RFPs' financial bid format.
- c. If there is an arithmetic discrepancy in the financial bid calculations, the Tenderer shall rectify the same. If the Bidder does not accept the correction of the errors, it may be rejected.

6.15. Taxes

6.15.1 Taxes shall be paid extra on actual by SI, as applicable while making all types of payment to GFGNL. The taxes prevailing at the time of raising the invoice shall be paid.

6.16. Time is of Essence

6.16.1 Time shall be of the essence in respect of any date or period specified in this RFP or any notice, demand or other communication served under or pursuant to any provision of this RFP and in particular in respect of the completion of the delivery of services to Government offices / locations / Government schools by the SI by the completion date.

6.17. Publicity

6.17.1 The SI shall not make or permit to be made a public announcement or media release about any aspect of this Contract unless the Tenderer first gives the SI its written consent.

6.18. Force Majeure

6.18.1 If, at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed

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by reasons of any war or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts or act of God (hereinafter referred to as events) provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event come to an end or cease to exist, and the decision of the Tenderer as to whether the deliveries have been so resumed or not shall be final and conclusive. Further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may, at its option, terminate the contract.

6.19. Risk Purchase

6.19.1 If the selected bidder of any particular zone (referred to as P1 zone here in this clause) fails to perform its obligations (or any part thereof) under this scope of this RFP or if the scope of this RFP is terminated by the Tenderer due to breach of any obligations of the selected bidder under scope of this RFP, the Tenderer reserves the right to procure the same or equivalent Hardware / Services / Deliverables from other sources as per options mentioned below.

1. from successful bidder of other zones who agrees to execute the work at L1 discovered rate of P1 zone or L1 discovered rate of their respective zone(s) whichever is lower.
2. from L2 / L3 /...Ln bidder of the P1 zone (where n is the total number of bids received in P1 zone) with the first bidder out of L2 / L3 /...Ln who agrees to match the price of L1 discovered rate of P1 zone.
3. from any other "alternate source". The procurement from "alternate source" shall be done, as far as possible, through Government's procurement guidelines as deemed appropriate by the tenderer.

6.19.2 Above mentioned procurement will be done at the selected bidder's (who has failed to perform its obligations & thus defaulted) risk, cost and responsibility. Any incremental cost borne by the Tenderer in procuring such Hardware / Services / Deliverables shall be borne by the selected bidder (who has failed to perform its obligations & thus defaulted). Any such incremental cost incurred in the procurement of such Hardware / Services / Deliverables from other source will be recovered from the pending due and payable Payments / Security Deposit / Bank

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Guarantee provided by the selected bidder (defaulted bidder) under this scope of this RFP and if the value of the Hardware / Services / Deliverables under risk purchase exceeds the amount of pending payable payments / Security Deposit and / or Bank Guarantee, the same may be recovered, if necessary, by due legal process.

6.19.3 In this case of risk purchase, L1 bidder(s) of other zone(s) or L2 / L3 /...Ln bidder of the P1 zone or any alternate source will have to submit performance bank guarantee @ 10% of the total value of the work allotted to the bidder.

6.20. Termination

6.20.1 The Tenderer may, terminate this Contract in full or in part by giving the PIA a prior and written notice indicating its intention to terminate the Contract under the following circumstances:

- a) Where the Tenderer is of the opinion that there has been such Event of Default on the part of the PIA which would make it proper and necessary to terminate this Contract and may include failure on the part of the PIA to respect any of its commitments with regard to any part of its obligations under its Bid, the RFP or under this Contract including the following:
 - i. failure to perform the obligations under the Contract;
 - ii. the PIA and its team have failed to conform with any of the service specifications as set out in the RFP and the Contract;
 - iii. the PIA has failed to demonstrate or sustain any representation or warranty made by it in this Contract, with respect to any of the terms of its Proposal, the RFP and this Contract;
 - iv. The PIA has failed to comply with any terms and conditions of the this RFP & the Contract;
 - v. There is an undue delay in achieving the agreed timelines for delivering the services under this Contract due to reasons solely attributable to the PIA;
 - vi. If it comes to knowledge of the Tenderer that the PIA or any of their personnel have been involved in any fraudulent or corrupt practices or any other practice of similar nature;
 - vii. Where it comes to the Tenderer's attention that the PIA (or the PIAs' Team) is in a position of actual conflict of interest with the interests of the Tenderer, in relation to any of the terms of the PIA's Bid, the RFP or this Contract.
 - viii. Where the PIA's ability to survive as an independent corporate entity is threatened or is lost owing to any reason whatsoever, including inter-alia the filing of any bankruptcy proceedings against the PIA, any failure by the PIA to pay any of its dues to its creditors, the institution of any winding up proceedings
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against the PIA or the happening of any such events that are adverse to the commercial viability of the PIA. In the event of the happening of any events of the above nature, the Tenderer shall reserve the right to take any steps as are necessary, to ensure the effective transition of the project to a successor PIA and to ensure business continuity.

- b) Where there has been an occurrence of such Event of Defaults, inter alia, as stated above, the GFGNL shall issue a notice of default to the PIA, setting out specific defaults / deviances / omissions and providing a period of up to thirty (30) days to enable the PIA to remedy the default/ deviances / omissions committed. It shall be the responsibility of the PIA to maintain the agreed Quality of Service, even during the period when the notice for termination of agreement is pending and if the Quality of Performance of Solution is not maintained, during the said notice period, it shall be treated as material breach liable for termination at risk and consequent of PIA and Performance Bank Guarantee shall be forfeited, without any further notice.
- c) **Termination for Insolvency:** The Tenderer may at any time terminate the Contract by giving written notice to the PIA, without compensation to the PIA, if the PIA becomes bankrupt or otherwise insolvent, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Tenderer.
- d) **Termination for Convenience:** The Tenderer, may, by prior written notice sent to the PIA at least 3 months in advance, terminate the Contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the Tenderer's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

6.20.2 The PIA may, subject to approval by the Tenderer, terminate this Contract before the expiry of the term by giving the Tenderer a prior and written notice at least 6 months in advance indicating its intention to terminate the Contract.

6.21. Consequences of termination

6.21.1 In the event of termination of this contract due to any cause whatsoever, the contract with stand cancelled effective from the date of termination of this contract.

6.21.2 In case of exigency, if the Tenderer gets the work done from elsewhere, the difference in the cost of getting the work done shall be borne by the PIA as mentioned in clause – 6.19 (Risk Purchase) unless the Termination is due to any act and/or omission by the reason solely attributable to Tenderer.

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- 6.21.3 Where the termination of the Contract is prior to its stipulated term on account of a Default on the part of the PIA or due to the fact that the survival of the PIA as an independent corporate entity is threatened/has ceased, or for any other reason, whatsoever, the Tenderer through re-determination of the consideration payable to the PIA as agreed mutually by the Tenderer and the PIA or through a third party acceptable to both the parties may pay the PIA for that part of the Services which have been authorized by the Tenderer and satisfactorily performed by the PIA up to the date of termination. Without prejudice to any other rights, the Tenderer may retain such amounts from the payment due and payable by the Tenderer to the PIA as may be required to offset any losses caused to the Tenderer as a result of any act/omissions of the PIA. In case of any loss or damage due to default on the part of the PIA in performing any of its obligations with regard to the execution of the scope of work under this Contract, the PIA shall compensate the Tenderer for any such loss, damages or other costs, incurred by the Tenderer. Additionally, other members of its team shall perform all its obligations and responsibilities under this Contract in an identical manner as were being performed before the collapse of the PIA as described above in order to execute an effective transition and to maintain business continuity. All third parties shall continue to perform all/any functions as stipulated by the Tenderer and as may be proper and necessary to execute the scope of work under the Contract in terms of the PIA's Bid, the RFP and this Contract.
- 6.21.4 Nothing herein shall restrict the right of the Tenderer to invoke the Bank Guarantee and other Guarantees furnished hereunder, enforce the Deed of Indemnity and pursue such other rights and/or remedies that may be available to the Tenderer under law.
- 6.21.5 The termination hereof shall not affect any accrued right or liability of either Party nor affect the operation of the provisions of this Contract that are expressly or by implication intended to come into or continue in force on or after such termination.
- 6.21.6 Actions pursuant to Termination of Agreement:
Notwithstanding any other rights and remedies provided elsewhere in the agreement, upon termination of this agreement.
- a) Neither Party shall represent the Other Party in any of its dealings.
 - b) Neither Party shall intentionally nor otherwise commit any act(s) as would keep a third party to believe that the other Party is still the former Party's service provider, as the case may be.
 - c) Each party shall stop using the other Party's name, trademark, etc., in any audio or visual form.

6.22. Insurance

- 6.22.1 The Goods supplied & installed under this Contract shall be fully insured by the selected bidder, against any loss or damage at the Tenderer's designated location for entire contract period. The insurance taken should cover risks such as flood, theft, fire, earthquake and cyclone (for wind speeds up to 120 kmph). The bidder shall submit to the GFGNL, certificate of insurance issued by the insurance company, indicating that such insurances have been taken against entire solution & certificate has to be submitted by bidder to GFGNL. Bidder shall be designated as the 'loss payee' in such insurance policies; bidder shall be liable to pay premium for the insurance policy & shall ensure that each & every policy shall keep updated from time to time till end of contract period. In case of delayed procurement of insurance from selected bidder, all responsibilities of all supplied and/or installed equipment will be on bidder before taking the insurance.
- 6.22.2 The Bidder shall bear all the statutory levies like customs, insurance, freight, etc. applicable on the goods during their shipment from respective manufacturing / shipment site of the OEM to the port of landing.
- 6.22.3 All charges like transportation charges, octroi, etc. that may be applicable till the goods are delivered at the respective site of installation shall also be borne by the bidder.
- 6.22.4 The bidder during the term of this contract undertakes to ensure that it has taken or shall take up all appropriate insurances for the delivery of goods that it is required to undertake under law as well as to adequately cover its obligations under this Contract: shall take out and maintain, at his own cost insurance with IRDA approved insurers against the risks, and for the coverage, as specified below: shall pay all premium in relation thereto and shall ensure that nothing is done to make such insurance policies void or voidable at the Tenderer's request, shall provide certificate of insurance to the Tenderer showing that such insurance has been taken out and maintained. Employer's liability and workers' compensation insurance in respect of the Personnel of the bidder / bidder's Team, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate; and Insurance against loss of or damage to (i) equipment or assets procured in full or in part for fulfilment of obligations under this Contract (ii) the bidder's assets and property used in the performance of the Services.
- 6.22.5 In case of theft of any asset, successful bidder(s) will have to carry out all required process to lodge police complain / FIR. GFGNL will assist bidder(s) wherever required.
-

6.23. General

6.23.1 Relationship between the Parties

- a. Nothing in this Contract constitutes any fiduciary relationship between the Tenderer and PIA / PIAs' Team or any relationship of employer employee, principal and agent, or partnership, between the Tenderer and PIA.
- b. No Party has any authority to bind the other Party in any manner whatsoever except as agreed under the terms & conditions of this Contract.
- c. The Tenderer has no obligations to the PIA's Team except as agreed under the terms & Conditions of this Contract.

6.23.2 No Assignment

The PIA shall not transfer any interest, right, benefit or obligation under this Contract without the prior written consent of the Tenderer.

6.23.3 Survival

The provisions of the clauses of this Contract and RFP in relation to documents, property, Intellectual Property Rights, indemnity, publicity and confidentiality and ownership survive the expiry or termination of this Contract and in relation to confidentiality, the obligations continue to apply unless the Tenderer notifies the PIA of its release from those obligations.

6.23.4 Entire Contract

The terms & conditions laid down in the Contract and all the Annexures thereto as also the Bid and any attachments/annexes thereto shall be read in consonance with and form an integral part of this Contract. This Contract supersedes any prior Contract, understanding or representation of the Parties on the subject matter.

6.23.5 Governing Law

This Contract shall be governed in accordance with the laws of India.

6.23.6 Jurisdiction of Courts

The courts of India at Gandhinagar/Ahmedabad have exclusive jurisdiction to determine any proceeding in relation to this Contract.

6.23.7 Compliance with Laws

The PIA shall comply with the laws in force in India in the course of performing this Contract.

6.23.8 Notices

- a) A "notice" means:
 - i. A notice; or
 - ii. A consent, approval or other communication required to be in writing under this

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Contract.

All notices, requests or consents provided for or permitted to be given under this Contract shall be in writing and shall be deemed effectively given when personally delivered or mailed by pre-paid certified/registered mail, return receipt requested, addressed as follows and shall be deemed received two days after mailing or on the date of delivery if personally delivered:

To Tenderer at:

GFGNL

Attn: Managing Director (MD), GFGNL

[Phone:]

[Email:] md@bharatnet.gujarat.gov.in

[Fax:]

To PIA at:

Attn:

[Phone:]

[Email:]

[Fax:]

Any Party may change the address to which notices are to be directed to it by notice to the other parties in the manner specified above.

A notice served on a Representative is taken to be notice to that Representative's Party.

6.23.9 Waiver

- a. Any waiver of any provision of this Contract is ineffective unless it is in writing and signed by the Party waiving its rights.
- b. A waiver by either Party in respect of a breach of a provision of this Contract by the other Party is not a waiver in respect of any other breach of that or any other provision.
- c. The failure of either Party to enforce at any time any of the provisions of this Contract shall not be interpreted as a waiver of such provision.

6.23.10 Modification

Any modification of this Contract shall be in writing and signed by an authorized representative of each Party.

6.23.11 Application

These General Conditions shall apply to the extent that provisions in other parts of the Contract do not supersede them.

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

6.24. Transfer of Ownership

- 6.24.1 The bidder must transfer all titles to the assets and goods procured for the purpose of this project to the Tenderer upon acceptance of each customer link & equipment.
- 6.24.2 The asset(s) so created shall be fully owned by the Government of Gujarat and held on its behalf by GFGNL.

7. Implementation timeline and penalties

- 7.1. GFGNL will give intimation order to selected bidder with the list of number of locations to be connected with BharatNet Phase – II Network.
- 7.2. Bidder will have to carry out field survey for each location & decide the aprx. BoQ with capex and submit the details to GFGNL for approval.
- 7.3. GFGNL will approve locations’ connectivity based on capex & final requirement of respective departments and fund availability.
- 7.4. Bidder will have to adhere to below mentioned timeline for submission of site survey reports (deliverable of Sr. No. – 2 below) & implementation of connectivity (deliverable of Sr. No. – 4 below), otherwise penalty will be applicable for each delayed site / location as per details mentioned in below table.

Milestone	Milestone Description	Timeline	Penalty
-----	Date of issuance of Work Order	T0 (which marks start of contract period for 5 years)	NA
1	Date of issuance of intimation order for locations to be connected (Zone wise)	T	NA
2	Site survey, solution design, preparation and submission of BoQ & site wise costing to GFGNL for approval (Deliverable: Site survey report mentioning all above details for all sites)	If no. of locations in intimation order is <=200, T+1 Month - - 100% locations	Rs. 50 per day per location
		If no. of locations in intimation order is > 200 & <= 400, T+1 Month - - minimum 50% locations T+2 Month - - balance locations	
		If no. of locations in intimation order is > 400, T+1 Month - - minimum 40% locations T+2 Month - - further minimum 40% locations T+3 Month - - balance locations	

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Milestone	Milestone Description	Timeline	Penalty
3	Approval of final bill of quantity by GFGNL for a lot (lot consists of sites from intimation orders)	T1	NA
4	Establishing end to end connectivity of location with SDC and successful testing of internet & intranet connectivity and signing of WCC (work completion certificate) from end customer (Deliverable: ITP sheets for completed work for OFC connectivity, link AT report for all type of connectivity, WCC)	No. of approved locations in a lot >= 40 & <= 100, T1+1 Month - - 60% locations T1+2 Month - - balance locations	Rs. 100 per day per location

Note:

1. All the timeline mentioned in above table will be calculated from the actual date of completion of respective previous milestone.
2. A practical assumption is taken as a balanced approach that successful bidder will keep on submitting survey reports for a lot size of 40 – 100 out of total no. of sites provided in any intimation order. For ex.: Let’s say GFGNL gives 250 sites to any successful bidder in an intimation order. Bidder’s multiple survey teams will start carrying out survey & when 50 / 60 sites’ reports will be ready, bidder will submit those reports to GFGNL for approval as a 1st lot. GFGNL will take few days to approve sites after consultation with respective departments. Meanwhile, bidders’ team will keep on surveying other sites & submit the reports. Thus, 250 sites survey reports can be submitted in 4 / 5 lots. This will ensure that all the stakeholders of the Project (Government departments, GFGNL & Bidder(s)) will have continuous work available in their respective buckets. If bidder will keep submitting very less no. of sites (for ex. 5 / 10 / 15 sites) for approval every other day, then it would become very difficult to Project manage the processes. If bidder will submit 150 / 200 sites together for approval, it will not ensure parallel working of all stakeholders.
3. In above approach, “T” date will be same for all 250 sites of the intimation order. Therefore, delay penalty calculation for milestone – 2 will be done on an intimation order level. While “T1” date for every lot will be different. Therefore, delay penalty calculation for milestone – 4 will be done on a lot level.
4. Let’s say, survey reports of 60 sites are submitted by bidder & 59 sites are approved in this lot by GFGNL (1 site is cancelled due to very high capex), then first month target for

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milestone – 4 will be 36 sites (59 * 60% = 35.4, rounded up to 36). This will be applicable for all the milestones.

5. Maximum penalty ceiling (milestone – 2 + milestone – 4 penalty) for any particular intimation order shall be equal to 20% of the total capex value derived for all the feasible sites / locations from site survey report.
6. Maximum penalty ceiling for any particular site / location shall be equal to 20% of the actual payable capex value certified for that site / location based on executed work.
7. Milestone – 2 delay penalty (if any) for all non-feasible & cancelled sites will be recovered from the bills of the other sites of the respected intimation order. GFGNL will keep recovering penalty amount from all the running bills as per calculation and process requirement.
8. For all non-feasible & cancelled sites, no payment will be applicable for the efforts put up by bidder for carrying out survey.
9. Formats of ITP sheet, link AT reports, WCC etc. will be finalized with selected bidder(s) as per technical requirements.

8. O&M SLA & Penalties

Proposed quarterly SLA Uptime / Availability of link per location & penalties thereof		
Sr. No	Uptime	Penalty
1	>= 98.00%	Nil
2	>= 97.00% & < 98.00 %	1% of quarterly opex charges to be paid for respective site
3	>= 96.00% & < 97.00 %	3% of quarterly opex charges to be paid for respective site
4	>= 95.00% & < 96.00 %	5% of quarterly opex charges to be paid for respective site
5	>= 94.00% & < 95.00 %	7% of quarterly opex charges to be paid for respective site
6	>= 90.00% & < 94.00 %	10% of quarterly opex charges to be paid for respective site
7	< 90%	20% of quarterly opex charges to be paid for respective site

- 8.1. In addition to the above mentioned penalty wherein average quarterly uptime % will be calculated for each site / location, below mentioned penalty will also be applicable.
- 8.2. If any site / location will be down for more than 48 Hrs due to any reason attributable to the selected bidder(s), a onetime additional penalty of Rs. 500 per location per instance will be levied.
- 8.3. Penalty for random inspection of depth: Tenderer or its representative will do random inspection / check of actual depth of cable laid against the data recorded in ITP sheets. If

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any wrong data entry for depth is found in ITP sheets (all those recorded depth points deviated by more than 10 cm than actual depth found in a pit will be considered as a wrong data entry. For ex.: if 900 mm depth is recorded on ITP sheet column & 780 mm depth is found in a trial pit, then this case will be applicable for penalty. GFGNL will decide the mechanism later on with selected bidder(s) about no. of pits to be excavated for checking, averaging out the reading of various pits etc.), than a random penalty of rupees 50,000/- will be levied per instance. Selected bidder(s) will have to support GFGNL in excavating the inspection pits as per instruction of GFGNL's official without any additional cost to GFGNL.

- 8.4. Selected bidder(s) will have to deploy minimum 2 suitable manpower resources per zone (resource must have ≥ 3 years of total telecom experience) in GFGNL's office / NOC who will be responsible for assigning trouble tickets to field resources, coordination with their field manpower for fault resolution, coordination with GFGNL NOC & other Project stakeholders etc. Selected bidder(s) will have to deploy at least 1 manpower once total 50 connections are established by the bidder in a particular zone. 2nd manpower will be deployed once total 200 connections are established by the bidder in a particular zone. Bidder may increase manpower count in future if required at his own cost.

Note:

1. For the Calculation of SLA's, the site / customer location shall be taken as unit.
2. The performance report for each site / customer location shall be generated from the measurement tools (GFGNL's NMS & Helpdesk tool).
3. Maximum penalty ceiling for any particular site / location shall be equal to 20% of the total quarterly opex charges to be paid for respective site.

9. Payment Schedule

Capex payment:

- 9.1. Selected bidder will be allowed to submit 1 bill every fortnight. Bidder will add all those locations in the bill for which WCC (work completion certificate) is signed by end customer.
 - 9.2. GFGNL will make payment of the bill within 1 month once all required documents are submitted by the bidder along with bill to the satisfaction of GFGNL. GFGNL will make payment after deduction of any applicable penalties.
 - 9.3. For any location, the final capex amount to be paid by GFGNL must not increase or decrease by more than 10% w.r.to the amount submitted by bidder in site survey report (as per Milestone – 2). If amount increases or decreases beyond 10%, then bidder will have to submit detailed justification to GFGNL. If this happens for $>20\%$ locations in any intimation order, then GFGNL may levy one time penalty of Rs. 1000 per location for all
-

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those locations for which final capex amount to be paid has varied +/- 10% of capex amount mentioned in survey report. This is just to ensure that bidder carries out field survey with best possible accuracy to enable GFGNL / DST / GoG / respective Government departments to take final decision on connectivity as per Milestone – 3 without being misguided by exorbitant capex amount projected and it will also help to control overall budget / expenditure planning.

Opex payment:

- 9.4. GFGNL will pay to selected bidder 8% of capex amount of any particular active site / location every year as an O&M charge for operation & maintenance activities for that location. GFGNL will make O&M payment after deduction of any applicable penalties. For calculation of 8% O&M amount, total actual capex will be considered irrespective of any project phase penalties levied on bidder for any particular site as per Milestones – 2 & 4 of clause – “Implementation timeline and penalties”.
- 9.5. Bidder will be allowed to submit quarterly bill for O&M. Bidder will add all those active locations in quarterly O&M bill for which WCC (work completion certificate) is signed & thus the location has entered into O&M phase.
- 9.6. For any particular quarter, pro-rata O&M amount will be calculated for all those locations for which WCC is signed within same quarter.

Annexure – I : Bid Document checklist

#	Documents to be submitted	Submitted (Y / N)	Documentary Proof (Page No.)
Qualification Criteria			
1.	Demand Draft as bid processing fee		
2.	EMD as Bid Security (DD/ BG as per Annexure V)		
Technical Qualification			
3.	Cover Letter (Annexure I)		
4.	Bidder’s information sheet (Annexure II)		
5.	Enclose copy of Certificate of Incorporation/ Registration Certificate of the firm		
6.	Copy of Certificate from the Statutory auditor/CA clearly specifying the annual turnover for the specified years. (2016-17, 2017-18 & 2018-19).		
7.	Copy of Class A/B/C ISP & NLD/Access Service license		

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	issued by DoT/TRAI.		
8.	PO copy for successful execution of minimum 50 Internet Links for government		
9.	Copy of last 2 quarters report & 3 year's old report submitted to Licensor (DoT)		
10.	Copy of proof of office address		
11.	Acknowledgement/ Copies of Income tax refund (ITR) filed for last three financial years i.e. 2016-17, 2017-18, 2018-19		
12.	Copy of valid GST registration		
13.	Copy of valid PAN card		
14.	Undertaking by the bidder for not being barred by any State/ Central Government/PSU		
15.	Self-certification by the bidder's HR head on bidder's letter head mentioning no. of employees		
Financial Proposal			
16.	Commercial bid		

Annexure – II : Cover Letter

(To be Signed and submitted by the agency on their letter head)

To,
 Chief Finance Officer (CFO)
 Gujarat Fibre Grid Network Limited (GFGNL),
 Block No: 6, 5th Floor,
 Udyog Bhavan,
 Sector-11, Gandhinagar -382010

Sir,

I have carefully gone through the Terms & Conditions contained in “**Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network (Reference No: GFG/DST/BharatNet/Connectivity through Bharatnet/2021/642)**” and declare that all the provisions mentioned in the RFP document are acceptable to my Company.

I/We agree for unconditional acceptance of all the terms and conditions set out in the RFP (and subsequent clarification/corrigendum, if any) document. I/we agree that you are not bound to

[Signature of the bidder]

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

accept any RFP response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products / services specified in the RFP response.

I/We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours Truly,

Name: _____

Designation: _____

Company: _____

Address: _____

Seal:

Annexure – III : Bidder Information Sheet

(to be filled for both members in case of consortium)

(To be Signed and submitted by the agency on their letter head)

Sr No	Particulars to be provided	Responding Firm's / Company Details to be provided	
Basic details			
1.	Name of the Bidder		
2.	Correspondence details of the Bidder:	Corporate Office	Local Office
3.	Telephone No & Email Address		
4.	Contact person details (Name, Designation Contact number etc.), to whom all references shall be made regarding this RFP		
5.	Details of ownership (Name and Address of the Board of Director, Partners etc.)		
6.	Name of the authorized Signatory who is authorized to sign all the relevant documents		

[Signature of the bidder]

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7.	Address of office in Ahmedabad/ Gandhinagar (if any)	
Details for registration under Companies Act, 1956		
8.	Registration Number of the Bidder in case of company/LLP	
9.	Place of registration	
10.	Date of registration	
11.	Product/service for which firm is registered	
12.	Validity Period, if applicable	
Details for registration with appropriate authorities		
13.	GST registration details (Registration number and details)	
14.	PAN No	

Authorized Signatory

Seal of the Company

Name & Designation

Date

Annexure – IV : Format for Bank Guarantee for Earnest Money Deposit (EMD)

(To be typed on non-judicial stamp paper of Rs. 300)

To

Dated:

.....

Whereas _____ (here in after called "the Bidder") has submitted its bid dated _____ in response to the **“Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network (Reference No: GFG/DST/BharatNet/Connectivity through Bharatnet/2021/642)”** KNOW ALL MEN by these presents that WE _____ having our registered office at _____ (hereinafter called "the Bank") are bound unto the _____, Gujarat Fibre Grid Network Limited in the sum

[Signature of the bidder]

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

of _____ for which payment well and truly to be made Gujarat Fibre Grid Network Limited , the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 2021.

THE CONDITIONS of this obligation are:

The EMD may be forfeited, In case of a Bidder if:

- 1) The bidder withdraws its bid during the period of bid validity.
 - a. The Bidder does not respond to requests for clarification of their Bid.
 - b. The Bidder fails to co-operate in the Bid evaluation process.
 - c. The bidder, fails to furnish Performance Bank Guarantee in time.
- 2) The bidder fails to Sign the contract in accordance with this RFP
- 3) The bidder is found to be involved in fraudulent and corrupt practices

We undertake to pay to the GFGNL up to the above amount upon receipt of its first written demand, without GFGNL having to substantiate its demand, provided that in its demand GFGNL will specify that the amount claimed by it is due to it owing to the occurrence of any of the above-mentioned conditions, specifying the occurred condition or conditions.

This guarantee will remain valid up to 180 days from the last date of bid submission. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the GFGNL and further agrees that the guarantee herein contained shall continue to be enforceable till the GFGNL discharges this guarantee

The Bank shall not be released of its obligations under these presents by any exercise by the GFGNL of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the GFGNL or any other indulgence shown by the GFGNL or by any other matter or things.

The Bank also agree that the GFGNL at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the BIDDER and not withstanding any security or other guarantee that the GFGNL may have in relation to the BIDDER's liabilities.

Dated at _____ on this _____ day of _____ 2021.

Signed and delivered by

For & on Behalf of

Name of the Bank & Branch &

[Signature of the bidder]

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

Its official Address with seal

Approved Bank: Guarantee issued by following banks will be accepted as SD or EMD on permanent basis

1. All Nationalized banks including the Public sector banks - IDBI Ltd.
2. Private sector banks - AXIS Bank, ICICI Bank and HDFC Bank

Annexure – V : Format for Bank Guarantee for Performance Bank Guarantee (PBG)

(To be typed on non-judicial stamp paper of Rs. 300)

In consideration of the _____ having agreed to exempt _____ (hereinafter called 'the said agency') from the demand under the terms & conditions of an agreement/ Advance Work Order No _____ dated _____ made between _____ and _____ for the **“Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network (Reference No: GFG/DST/BharatNet/Connectivity through Bharatnet/2021/642)”** (hereinafter called "the said Contract"), of security deposit for the due fulfilment by the said agency of the terms & conditions contained in the said Contract, on production of the bank guarantee for _____ we, (name of the bank) _____ (hereinafter refer to as "the bank") at the request of _____ (agency) do hereby undertake to pay to the State/SIA an amount not exceeding _____ against any loss or damage caused to or suffered or would be caused to or suffered by GFGNL by reason of any breach by the said agency of any of the terms & conditions contained in the said Contract.

We (name of the bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the State/SIA by reason of breach by the said agency' of any of the terms & conditions contained in the said Contract or by reason of the agency' failure to perform the said Contract. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of State/SIA in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.

We undertake to pay to the GFGNL any money so demanded notwithstanding any dispute or disputes raised by the agency in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment

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so made by us under this bond shall be valid discharge of our liability for payment there under and the agency shall have no claim against us for making such payment.

We (name of the bank) _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the State/SIA under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged or till GFGNL certifies that the terms & conditions of the said Contract have been fully or properly carried out by the said agency and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before ___(expiry date of PBG)___(as specified in Work Order) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.

We (name of the bank) _____ further agree with the GFGNL that the State/SIA shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms & conditions of the said Contractor to extend time of performance by the said agency from time to time or to postpone for any time or from time to time any of the powers exercisable by the GFGNL against the said agency and to forbear or enforce any of the terms & conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said agency or for any forbearance, act or omission on the part of the GFGNL or any indulgence by the GFGNL to the said agency or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This guarantee shall not be discharged due to the change in the constitution of the Bank or the agency.

We (name of the bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the GFGNL in writing.

Place:

Date:

(Signature of the Bank Officer)

Rubber stamp of the bank:

Authorized Power of Attorney Number:

Name of the Bank officer:

Designation:

Complete Postal address of Bank:

Telephone Numbers

[Signature of the bidder]

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Fax numbers.....

Approved Bank: Guarantee issued by following banks will be accepted as SD or EMD on permanent basis

1. All Nationalized banks including the Public sector banks - IDBI Ltd.
2. Private sector banks - AXIS Bank, ICICI Bank and HDFC Bank

Annexure – VI : Self-declaration / Undertaking of not being barred by any State / Central Government / PSU

(To be submitted by agency on their letterheads)

To,
Chief Finance Officer (CFO)
Gujarat Fibre Grid Network Limited (GFGNL),
Block No: 6, 5th Floor,
Udyog Bhavan,
Sector-11, Gandhinagar -382010

Sir,

In response to the “**Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network (Reference No: GFG/DST/BharatNet/Connectivity through Bharatnet/2021/642)**” as an Owner / Partner / Director of _____, I/We hereby declare that presently our Company / Firm _____ have not been barred from participating in any tender / providing services / procurement process or supply of materials by an organization by any department / office / PSU / board or corporation of either Government of India or any state government.

I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours Truly,

Name: _____

Designation: _____

Company: _____

Address: _____

Seal:

[Signature of the bidder]

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Annexure – VII : Financial Bid Format

1. Below mentioned financial bid format is for one zone. Same table would be available for each zone on (n)procure website.
2. Bidder is requested to refer clause – 5 (Selection criteria & allotment of work).

Financial bid format for each zone :

Sr. No.	Description	UoM	Quantity	Rate (excluding tax)	Amount (Rs.)
			(A)	(B)	(C=A*B)
A	Services - Passive Infrastructure for underground OFC laying				
1	Excavation of trench with 1 Mtr depth including HDPE-PLB duct laying, backfilling, compaction, reinstatement after laying of HDPE-PLB pipe and installation of protection mechanism (DWC pipe, RCC half round pipe etc. for the cases of low depth as per RFP)	Mtr	2,50,000		
2	Horizontal directional drilling including duct pulling	Mtr	25,000		
3	Manual mauling / boring including duct pulling	Mtr	12,500		
4	OFC blowing in duct / pulling of any size of cable with size of less than or equal to 24F	Mtr	2,50,000		
5	Installation of MH / HH	No.	1,250		
6	Installation of route indicator	No.	1,250		
B	Services - Passive Infrastructure for aerial OFC laying				
1	Aerial cable laying on existing pole / new pole including required accessories	Mtr	10,00,000		
2	Installation of new pole	No.	200		
C	Services - Passive Infrastructure for wireless link				
1	Installation of 3 mtr pole including required RCC / foundation work & material required for same (excluding pole)	No.	75		
2	Installation of 6 mtr pole including required RCC / foundation work & material required for same (excluding pole)	No.	75		
3	Installation of 9 mtr pole including required RCC / foundation work & material required for same (excluding pole)	No.	75		

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Sr. No.	Description	UoM	Quantity	Rate (excluding tax)	Amount (Rs.)
			(A)	(B)	(C=A*B)
4	Installation of > 9 mtr pole & <= 15 mtr mast including required RCC / foundation work & material required for same (excluding pole)	No.	13		
5	Installation of > 15 mtr & <= 24 mtr mast including required RCC / foundation work & material required for same (excluding pole)	No.	8		
6	Installation of > 24 mtr mast including required RCC / foundation work & material required for same (excluding pole)	No.	5		
D	Services - Passive Infrastructure				
1	Splicing of loose tube fibre with loose tube fibre including cable preparation of both cables and acceptance testing	Each fiber joint	2,000		
2	Splicing of loose tube fibre with ribbon fibre including cable preparation of both cables and acceptance testing	Each fiber joint	250		
3	Installation of compass (WSC) for fibre termination including splicing of up to 8 fibre cores with pigtails and acceptance testing	No.	2,250		
4	Installation of 6U wall mounted rack including supply of electrical cable for power connection, MCB and energizing the rack with electrical power	No.	4,500		
5	Installation of DWC pipe at / inside customer premise	Mtr	750		
6	Installation of PVC pipe at / inside customer premise	Mtr	11,250		
7	Preparation of earthing pit for road earthing including supply of all required material for earthing & successfully achieving desired earth value as per RFP	Each	625		
8	Installation of outdoor Cat 6 cable including required accessories, connector etc.	Mtr	6,000		
9	Installation of indoor Cat 6 cable including required accessories, connector etc.	Mtr	6,000		
E	Services - Active Infrastructure				

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Sr. No.	Description	UoM	Quantity	Rate (excluding tax)	Amount (Rs.)
			(A)	(B)	(C=A*B)
1	Installation, configuration, commissioning and acceptance testing of CPE (customer premise equipment) and a pair of Optical to Ethernet converter(s)	No.	2,500		
2	Installation, configuration, commissioning and acceptance testing of point to point UBR radio link including earthing, lightening arrester, clamps, RF & electrical cables etc.	No.	50		
3	Installation, configuration, commissioning and acceptance testing of Base Station site radio for point to multipoint radio link including earthing, lightening arrester, clamps, RF & electrical cables etc.	No.	50		
4	Installation, configuration, commissioning and acceptance testing of Remote Station site radio for point to multipoint radio link including earthing, lightening arrester, clamps, RF & electrical cables etc.	No.	200		
F	Material Supply - Passive Infrastructure				
1	Optical fibre cable - 24F loose tube	Mtr	2,50,000		
2	Optical fibre cable - 12F loose tube	Mtr	2,00,000		
3	Optical fibre cable - 8F loose tube	Mtr	2,00,000		
4	Optical fibre cable - 6F loose tube	Mtr	2,00,000		
5	Optical fibre cable - 4F loose tube	Mtr	2,00,000		
6	Optical fibre cable - 2F loose tube	Mtr	2,00,000		
7	HDPE - PLB duct	Mtr	2,50,000		
8	MH / HH (joint / loop chamber)	No.	1,250		
9	Route indicator	No.	1,250		
10	6U wall mounted rack including fan, power strip & cable manager	No.	4,500		
11	DWC pipe	Mtr	750		
12	RCC half round pipe	Mtr	12,500		
13	New pole for aerial cable installation	No.	200		
14	Miscellaneous items required at customer location like MCB, electrical cable, earthing cable, compass, PVC pipe, patch cord (optical & Cat 5) etc.	Lot	2,500		
15	3 mtr pole including all accessories	No.	75		

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Sr. No.	Description	UoM	Quantity	Rate (excluding tax)	Amount (Rs.)
			(A)	(B)	(C=A*B)
16	6 mtr pole including all accessories	No.	75		
17	9 mtr pole including all accessories	No.	75		
18	12 mtr mast including all accessories	No.	8		
19	15 mtr mast including all accessories	No.	5		
20	18 mtr mast including all accessories	No.	3		
21	21 mtr mast including all accessories	No.	3		
22	24 mtr mast including all accessories	No.	3		
23	27 mtr mast including all accessories	No.	3		
24	30 mtr mast including all accessories	No.	3		
25	Outdoor Cat 5 cable including required accessories, connector etc.	Mtr	6,000		
26	Indoor Cat 5 cable including required accessories, connector etc.	Mtr	6,000		
G	Material Supply - Active Infrastructure				
1	CPE (customer premise equipment) L3 router – Option 1	No.	1,500		
2	CPE (customer premise equipment) L3 router – Option 2	No.	1,000		
3	CPE (customer premise equipment) L2 manageable switch – 24 ports	No.	250		
4	CPE (customer premise equipment) L2 manageable switch – 8 ports	No.	250		
5	Pair of Optical to Ethernet converter(s) (1 no. OtoE + 1 no. EtoO)	Each	2,250		
6	Point to point UBR radio set including earthing cable, lightening arrester, clamps/fixtures, RF & electrical cables etc.	Each	50		
7	Base Station site radio for point to multipoint radio link including earthing cable, lightening arrester, clamps/fixtures, RF & electrical cables etc.	Each	50		
8	Remote Station site radio for point to multipoint radio link including earthing cable, lightening arrester, clamps/fixtures, RF & electrical cables etc.	Each	200		

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Sr. No.	Description	UoM	Quantity	Rate (excluding tax)	Amount (Rs.)
			(A)	(B)	(C=A*B)
9	Point to point Li-Fi / FSO link set including earthing cable, lightening arrester, clamps/fixtures, optical patch cord & electrical cables etc. including Installation, configuration, commissioning and acceptance testing	Each	13		
10	Voltage stabilizer	No.	2,500		
11	UPS 1KVA	NO	2500		
Grand Total – C0					

Note:

1. Payments shall be made by the GFGNL as per the terms and conditions of the RFP and no extra charges shall be paid by GFGNL.
2. For financial evaluation, Price excluding Tax shall be taken into consideration.
3. The taxes shall be mentioned separately and will be applicable as actual as per the time of billing.
4. All invoices should be raised from Gujarat.
5. The quantity mentioned above for all line items is notional for evaluation purpose only. Actual payment will be made to selected bidder(s) based on number of locations awarded by GFGNL and successfully connected by bidder & certified by GFGNL.
6. Quoted rates will be valid for 3 years from the date of issuance of Work Order. For all those intimation orders which are issued on or before completion of 3 years from issuance of Work Order, quoted rates will be applicable. If GFGNL wants to connect any location after 3 years (with intimation order issued after 3 years of issuance of Work Order), then GFGNL & selected bidder(s) may mutually decide the revised rates as per prevailing market condition (revision may increase or decrease the rate of any line item).

Annexure – VIII : MAF(PER ITEM 3 maximum)

Manufacturer’s Authorization Format (MAF) From OEM

Ref:

Date:

To

.....,

[Signature of the bidder]

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

.....,

.....,

Subject: Manufacturer Authorization Letter for RFP No.

Sir,

We, <OEM Name> having our registered office at <OEM address>, hereinafter referred to as OEM are an established manufacturer of the following items quoted by <Bidder Name> having their registered office at <Bidder address>, hereinafter referred to as Bidder.

Item – 1 : _____

We <OEM Name> authorize <Bidder's name> to quote our above mentioned product for above mentioned tender.

We confirm that we have understood the delivery & installation timelines defined in the tender. We confirm that we have worked out all necessary logistics and pricing agreement with <Bidder name>, and there won't be any delay in delivery, installation and support due to any delay from our side. Our full support is extended in all respects for supply, warranty and maintenance of our products. We also ensure to provide the required spares and service support for the supplied equipment as per tender terms. In case of any difficulties in logging complaint at bidder end, user shall have option to log complaint at our call support Centre. We hereby declare that the proposed product complies with all the specifications defined and desired in this RFP and subsequent corrigenda.

If any product is declared end of sale, we shall proactively ensure that a suitable equivalent or higher roll over product is offered through the existing bidder <(Bidder)> to GFGNL for due approval, contract and order executions thereafter without any additional cost to the GFGNL.

Thanking You

For <OEM/ Manufacturer name>

< (Authorized Signatory)>

Name:

Designation:

Contact Details:

Seal of the Company

NOTE:

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- 1. The letter should be submitted on the letter head of the manufacturer / OEM and should be signed by the authorized signatory.*

Annexure – IX : Self Certification by Bidder and OEM

(This shall be provided on Rs.300/- Non-Judicial stamp paper.)

Date: DD/MM/YYYY

Tender Ref No.

To,

<<<Client Name & Address>>

With reference to above referred tender, I, undersigned <<Name of Signatory>>, in the capacity of <<Designation of Signatory>>, is authorized to give the undertaking on behalf of <<Name of the bidder/OEM>>.

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that <<Name of Bidder/OEM>> is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that <<Name of Bidder/OEM>> fulfills all requirements in this regard and eligible to be considered. [Where applicable, evidence of valid registration by Competent Authority shall be attached.]

If given information is found to be false, this would be ground for immediate termination and further legal action in accordance with law.

Authorized Signatory:

Name:

Designation:

Name of the Bidder/OEM:

[Signature of the bidder]

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Address:

Company Seal:

Annexure – X : Technical Specifications

Bidder must comply to the below mentioned minimum specifications for each element. Bidders are free to select suitable product with higher specifications to meet the technical & functional requirements of this RFP.

2F / 4F / 6F / 8F / 12F / 24F Optical Fibre Cabel

Sr. No.	Parameters	Minimum Specifications
1.	Fibre count	2F / 4F / 6F / 8F / 12F / 24F
2.	Standard	ITU-T-G.657.A2
3.	Cable construction	Loose tube with jelly compound
4.		Water swellable tape / yarn
5.	Jacket Material	HDPE
6.	Strength member	FRP
7.	Application	Cable must be suitable for outdoor as well as indoor applications.
8.		Cable must be suitable for machine blowing as well as manual pulling in duct in case of UG application.
9.		Cable must be suitable for UG as well as aerial installation.

HDPE Duct

Sr. No.	Parameters	Minimum Specifications
1.	Material of construction	HDPE pre lubricated duct
2.	Diameter	Outer : 40 mm, inner : 32 / 33 mm
3.	Color	Blue or any other
4.	Compliance	TEC GR No. TEC/GR/TX/CDS-008/03/MAR-11 with latest amendments, if any.

P2P & P2MP unlicensed radio

[Signature of the bidder]

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Sr. No.	Parameters	Minimum Specifications
1.	Operating frequency band	2.4 GHz / 5.8 GHz
2.	Distance support	Up to 10 Km
3.	Throughput support	Minimum 100 Mbps per link
4.	Ports	1 x 10/100/1000BaseT Ethernet & 1 x 10/100 Base-Tx (RJ-45)
5.	VLAN support	802.1Q,
6.	Security	System should support WPA/WPA2, WPA-PSK Encryption
7.	Electrical requirement	Power over Ethernet (PoE) injector
8.	Compliance	The Equipment should be type approved by WPC.
9.	Management	System should be remotely manageable
10.		System should have GUI interfaces
11.		System must provide alarm and control capabilities via Simple Network Management Protocol (SNMP).
12.		Software upgrade to system should be done through the network.
13.	Environment requirements	Operating Temperature support : -10 degrees C to +60 degrees C (in installed condition)
14.		Working Humidity support : between 10% - 95%, non-condensing at all operating temperatures
15.		It should be IP65 and wind survivability for minimum 150 Kmph
16.		System should be suitable to withstand continuous exposure to rain and sunlight.
17.	Protection	Radio system should have built in surge protection mechanism.

MH / HH (joint / loop chamber)

Sr. No.	Parameters	Minimum Specifications
1.	Material of construction	Pre-cast RCC chambers with cement concrete mix of 1:2:4 (1: cement, 2: coarse sand, 4: stone aggregate 20 mm nominal size)
2.	Thickness of chamber wall	Minimum 5 cm
3.	Size	600 mm inner diameter with 1 mtr depth
4.	Foundation	PCC – M15 grade with 50 mm height
5.	Reinforcement	6 mm dia horizontal iron round rings – minimum 8 nos.

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		6 mm dia vertical iron bars – minimum 8 nos.
6.	Cover	1 no. with thickness of minimum 5 cm & two handles to facilitate easy lifting
7.	Marking on cover	“GFGNL OFC” should be engraved on it.
8.	Other	Chamber must be able to take vehicular load.

Route & Joint indicator

Sr. No.	Parameters	Minimum Specifications
1.	Material of construction	Pre-cast RCC with cement concrete mix of 1:2:4 (1: cement, 2: coarse sand, 4: stone aggregate 20 mm nominal size)
2.	Size	Base - 250 mm x 150 mm, Top - 200 mm x 75 mm, Height - 1250 mm
3.	Reinforcement	6 mm dia horizontal iron bars – minimum 10 nos. 6 mm dia vertical iron bars – minimum 4 nos.
4.	Color	Grey for joint indicator & blue for route indicator
5.	Marking on route marker	“GFGNL OFC” should be engraved on it.

6U wall mounted rack

Sr. No.	Parameters	Minimum Specifications
1.	Size	19 inch rack of 6U usable space
2.	Material of construction	Corrosion proof steel cabinet
3.	Other	To be provided with minimum one fan (Should have sufficient perforation for ventilation of air), power strip (with min. 5 no. 5A socket), cable manager & min 1 no. equipment sliding tray
4.		Rack should be vented at both sides, front, top and bottom for proper ventilation of air

Optical to Ethernet media converter

Sr. No.	Parameters	Minimum Specifications
1.	Optical port	1000Base-X optical ethernet port – 1 no. Must support bi-directional wavelengths (BIDI) on single fibre

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2.	Ethernet port	10/100/1000Base-T RJ45 – 1 no. (should at least support Cat 5e cable)
3.	Distance support	Up to 20 Km
4.	Operating temperature	0° to 50°C
5.	Others	10/100/1000Mbps auto-negotiation
6.		Support auto MDI/MDIX
7.		Should support half duplex & full duplex communication
8.	LEDs	Should show status of link, full / half duplex, speed and power on
9.	Manageability	---
10.	Power	Should be supplied with power adapter so that it can work on 230 V AC power

CPE (customer premise equipment) L3 router – Option 1

Sr. No.	Parameters	Minimum Specifications
1.	Aggregate Throughput	100 Mbps
2.	No. of WAN port (1GE RJ45 port)	2 nos.
3.	LAN Port (10/100/1000 BaseT ports)	2 nos.
4.	Flash Memory	1 gb/128mb/64mb
5.	Routing protocol	Static IPv4 routing, ,
6.	Management	SNMP V3, Remote management, should have facility to set password for local & remote login
7.	Encapsulation	802.1q VLAN, PPPoE
8.	Feature support	IPv6 support, Quality of Service (QoS), IPSEC, DHCP, IGMP V3, NAT and Firewall Services
9.	Operation Temperature	0 to 50 °C
10.	Power input	230 V AC, 50-60 Hz
11.	Safety standard	UL / IEC

CPE (customer premise equipment) L3 router – Option 2

Sr. No.	Parameters	Minimum Specifications
1.	No. of WAN port (1GE RJ45 port)	1 no.
2.	LAN Port (10/100 BaseT ports)	2 nos.
3.	Flash Memory	128 MB/64mb
4.	Routing protocol	Static IPv4 routing,

Request for Proposal (RFP) for Selection of Project Implementation Agency (PIA) for Various Connectivity through BharatNet Network

5.	Management	SNMP V3, Remote management, should have facility to set password for local & remote login
6.	Encapsulation	802.1q VLAN, PPPoE
7.	Wi-Fi support	802.11/ac/n/b/g
8.	Wireless security	WPA/WPA2, WPA-PSK Encryption
9.	Feature support	IPv6 support, Quality of Service (QoS), IPSEC, DHCP, IGMP V3, NAT and Firewall Services
10.	Operation Temperature	0 to 50 °C
11.	Power input	230 V AC, 50-60 Hz

CPE (customer premise equipment) L2 manageable switch – 24 ports

Sr. No.	Parameters	Minimum Specifications
1.	Switch Performance & Throughput	The Switch should support a minimum of 50 Gbps Switching Fabric Capacity. • The switch should have forwarding rate of min 40 Mpps
2.	No. of Ports	24 ports of 10/100/1000 BaseT (out of 24 ports, 12 ports should be PoE supported with PoE power support of minimum 80W) and 2 Uplink ports of 1GE
3.	MAC	Support for minimum 8K MAC entries
4.	Features	DHCP, IGMP V3, IEEE 802.1Q VLAN encapsulation, 802.1d (Spanning tree), 802.1w (RSTP), 802.1s (MSTP) Should support minimum 500 active VLANs.
5.	Security	• IEEE 802.1x, RADIUS. • Telnet, Secure Shell (SSH) Protocol, and Simple Network Management Protocol Version 3 (SNMPv3).
6.	Operation Temperature	0 to 50 °C
7.	Power input	230 V AC, 50-60 Hz

CPE (customer premise equipment) L2 manageable switch – 8 ports

Sr. No.	Parameters	Minimum Specifications
1.	Switch Performance & Throughput	The Switch should support a minimum of 16 Gbps Switching Fabric Capacity.

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		<ul style="list-style-type: none"> The switch should have forwarding rate of min 10 Mpps
2.	No. of Ports	8 PoE ports of 10/100/1000 BaseT with PoE power support of minimum 60W
3.	MAC	Support for minimum 4K MAC entries
4.	Features	DHCP, IGMP V3, IEEE 802.1Q VLAN encapsulation, 802.1d (Spanning tree), 802.1w (RSTP), 802.1s (MSTP) Should support minimum 500 active VLANs.
5.	Security	<ul style="list-style-type: none"> Telnet, Secure Shell (SSH) Protocol, and Simple Network Management Protocol Version 3 (SNMPv3).
6.	Operation Temperature	0 to 50 °C
7.	Power input	230 V AC, 50-60 Hz

UPS ..as per GFGNL specs

Voltage stabilizer

Sr. No.	Parameters	Minimum Specifications
1.	Power rating	1 KVA
2.	Input Voltage Range	170 V – 270 V AC (minimum support range), 50 Hz single phase
3.	Output Voltage	230V AC +/- 1%, 50 Hz
4.	Operating Frequency	47 to 53 Hz (minimum support range)
5.	Type of cooling	Should be natural air cooled
6.	Efficiency	> 95%

Pole & mast for aerial cable & radio installation

Sr. No.	Parameters	Minimum Specifications
1.	Material of construction	Mild steel
2.	Other	Should be hot-dip galvanized
3.	Wind survivability	Should withstand wind speed of minimum 150 Kmph
4.		Foundation should be constructed to support above mentioned wind speed
5.		Foundation bolt, foundation plate, other accessories must be supplied to support above mentioned wind speed