



**Rate Contract for LAN/OFC cabling work including
Supply, Installation and Commissioning of Last
Miles Equipments on TurnKey basis for
Government Offices in the State of Gujarat**

RFP NO: GIL\DST\RC\Cabling-LANwork dated 08.02.2019



**Department of Science and Technology
(Government of Gujarat)**

Issued by:



Gujarat Informatics Ltd

Block No. 2, 2nd Floor, C and D Wing, Karmyogi Bhavan, Sector-10A, Gandhianagar-382010, Gujarat
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IMPORTANT DATES

#	RFP NO: GIL\DST\RC\Cabling-LANwork dated 08.02.2019	
1	Bid Reference	RATE CONTRACT FOR: 1) Supply, Installation, Cable, Laying, Splicing, Jointing, Terminating, Commissioning of OFC related work, Civil work and Accessories. 2) Supply, Installation, Commissioning of Last mile Equipment such as Transceivers, manageable Switches etc. 3) Structured cabling including Supply, Installation, Commissioning of CAT 6 cables and Accessories including internal office LAN.
2	Date of Pre-Bid Meeting	18.02.2019 on 1500 hours
3	Venue for all the Bid process activities like Pre-Bid Meeting, EMD and BG submission, Bid opening etc.	Gujarat Informatics Limited Block No. 2, 2 nd Floor, C and D Wing, Karmyogi Bhavan, Sector 10A, Gandhinagar-382010 Phone :23256022 Fax: 23238925
4	Last date and Time for submission of Bids	01.03.2019 up to 1500 hrs.
5	Opening of Bids Date and Time (Un-priced Bids)	01.03.2019 at 1700 hrs.
6	Bid Processing Fees (Non-Refundable)	Rs. 17,700/- (Including GST)
7	Bid Security-EMD (Refundable)	Rs. 20,00,000/- towards EMD
8	GIL Contact person	Deputy General Manager (Tech)
9	Please address all queries and correspondence to	Deputy General Manager (Tech), Gujarat Informatics Limited, Block No. 2, 2 nd Floor, C and D Wing, Karmyogi Bhavan, Sector-10A, Gandhinagar-382010 Phone: 23259239 E-mail: viveku@gujarat.gov.in

Section – 1: PROJECT PROFILE

1.0 Introduction

- 1.1. Government of Gujarat is in the process of establishing LAN Infrastructure for various Government offices located at State, District and Taluka Locations levels, in the entire state of Gujarat.
- 1.2. GIL on behalf of Department of Science and Technology, Govt. of Gujarat, invites bid for Rate Contract to supply, installation and commissioning of structure LAN cabling of CAT-6, laying, splicing, jointing, Optical Fiber Cable (OFC) including their associated accessories such as patch cords, termination box, OFC accessories, switches, transceivers, racks, manageable switches etc. The works are to be completed on turnkey basis and to be maintained as per terms and conditions of the contract.
- 1.3. Services offered should be strictly as per the requirements mentioned in this Bid document. Conditional bids are liable for rejections.
- 1.4. Once quoted, the bidders are not allowed for any type of price changes, whether resulting or arising out of any technical/commercial clarifications sought regarding the bid. Such price changes shall render the bid liable for rejection.
- 1.5. Quoted prices of goods and services will be valid for 2 (Two) Year from the date of award of contract.
- 1.6. In addition to this RFP, the following sections attached are part of Bid Document

Section -1	Project Profile
Section -2	Eligibility Criteria
Section -3	Scope of Work
Section -4	Instruction to Bidders
Section -5	Specifications
Section -6	Technical Bid Format
Section -7	Financial Bid Format
Section -8	Performa for Performance Bank Guarantee
Section -9	Annexure

- 1.7. GIL/DST will select bidder for cabling work and Local Area Network on TurnKey basis and Supply, Installation and Commissioning of Last Mile Equipments for Government Offices in the State of Gujarat.
- 1.8. The LOCATION OF WORKS will be across the Gujarat state. The bidders are required to quote uniform Discount/Premium as per the price bid.
Note: Bidders who wish to participate in this bid will have to register on <https://gil.nprocure.com>. Further 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. Bidders can procure the same from (n) code solutions – a division of GNFC Ltd., or any other agency licensed by Controller of Certifying Authority, Govt. of India. Bidders who already have a valid Digital Certificate need not procure a new Digital Certificate.

Section – 2: ELIGIBILITY CRITERIA

1. The bidder should be IT System Integrator, who must have supplied and successfully installed items similar to the type specified in the schedule of requirements to any of the reputed organizations / institutes in the country.
2. The Bidder should have at least 3 Years experience in setting up LAN /WAN solutions, and should have installed minimum 10 LAN/WAN projects, out of which, 5 projects should be of minimum 80 nodes installed and operational. Copies of Purchase orders and Certificates of Successful Completion from Customer should be submitted. Experience details should be given in the **Form-E1**.
3. The Bidder should attach Authorization certificate from the OEM of the H/W to be used in this work, for the authenticity, authorized representation and after sales support. **(Form-E3)**. For items like HDPE pipes, Casing and Capping, Race Way, PVC pipe, bidder can submit the authorization certificate from authorized distributors.
4. The Bidder should have 20 skilled engineers / Manpower with minimum 2 Years experience across the Gujarat state. Bidders needs to provide the detail of on-roll/off role Manpower i.e. educational qualifications, experience and P.F. no./ ESIC no. along with the projects they have handled should be provided with the bid. **(Form-E4)**
5. The bidder should have local presence and should have office in Gujarat. The bidder should have service support infrastructure in the state to provide warranty and post warranty services. The details for such service support infrastructure must be enclosed. Please attach the copy of any one of the following: Property tax bill/Electricity Bill/Telephone Bill/GST Registration/Lease agreement etc. **(Form-E5 and Form-E6)**. In case bidder does not have office in Gujarat, bidder should give undertaking to open office in Gujarat within 45 Working days from the date of award of work order.
6. Copies of original documents defining the constitution on legal status, place of registration and principle place of business of the company or firm etc. Copy of company incorporation / registration certificate of the firm shall be attached as a proof Bidder must submit copies of his central and local VAT and Service tax/GST registration certificates, PAN number.
7. The bidder must have average annual turnover of Rs. 25 Crores from the business of IT/ITeS during the last three financial years as on 31st March 2018. Bidder should attach copies of audited accounts as a proof of turnover for the past three years. **(Form - E7)**.
8. The Manufacturer of the product (OEM) should have ISO 9001:2008 and 14001:2004 certification for manufacturing of items like Ethernet Switches, Copper and Fiber Cable, UTP cable, Jack/Patch Panels, Information Outlets and OEM must have minimum presence of 5 years in India as on bid issuance date. **(Form - E8)**

Note: All the details and the supportive documents for the above-mentioned items should be submitted.

Section – 3: SCOPE OF WORK

Introduction:

Department of Science and Technology is nodal agency of Government of Gujarat for implementation of LAN/WAN network through out the state. As of now Government of Gujarat has already connected more than ~5k offices through its own network i.e. Gujarat Sachivalaya Campus Area Network (GSCAN-Sachivalaya LAN) and Gujarat State Wide Area Network (GSWAN-Spread across the state).

GSCAN and GSWAN: It is the core backbone of state-wide IT infrastructure. It currently serves the state government departments/board/corporations to fulfill their need of connectivity (Both Internet and Intranet) across the state. Over the years of experience GSCAN and GSWAN has proved to be a reliable state-wide carrier for data, voice and internet access for the different departments spread across varied geographical boundaries across the state of Gujarat. GSWAN connects all 33 Districts, 248 Talukas ultimately interconnecting last mile offices for secure digital communication. GSCAN and GSWAN rides on various modes of connectivity like owned OFC, Leased OFC from ISP, Wireless links connecting to nearest PoPs. Recently, DST, GoG had completed 3rd phase of upgradation of GSWAN and increases minimum bandwidth at each PoP to 20mbps from 2mbps focusing more on creating fibre backbone and more and more no of PoPs to serve the last mile.

There are three types of Cabling done in the entire network of GoG: -

- The Campus Backbone is the cabling system that provides data and/or telecommunication services between buildings. It connects two or more Buildings and will almost always be in the form of fiber optic cabling.
- The Building Backbone is the cabling system that provides telecommunication services between floors or areas within a building. It connects the Building to the Floors and will usually consist of both fiber optic and copper links.
- The horizontal cabling is the cabling system that provides telecommunication services from the Floor to the Nodes. It will almost always be in the form of copper cabling but occasionally fiber optic may be required.

This is an EPC/turnkey kind of procurement wherein successful empaneled agency(s) will be responsible for end-to-end LAN/WAN/OFC cabling work including various activities such as carrying out LAN/WAN, OFC related work for both the categories i.e. New connection/link or repairing of existing links of GSCAN/GSWAN etc. Broad scope of the work includes undertaking various activities like supplies of various materials, installation, testing, commissioning and OandM during the warranty period.

The rates discovered by this RFP will be valid for a period of 2 (Two) year from the date of award i.e. issuance of Lol/Wo. Bidder has to make Back to Back agreement with respective OEMs for the same. As this is an RFP of Rate Contract empaneling agency(s) for the duration of two years, GIL/DST/GoG does not guarantee order of any fixed quantity at the time of issuance of work order or signing the contract agreement. Any type of escalation of the discovered rates during the contract tenure is not permitted, further successful empanelled agency(s) denying serving the contract due to rate escalation may liable for contract termination, forfeiture of Bank Guarantee and Black listing.

3.1 OFC CABLING WORKS

As mentioned above bidder will be responsible for end-to-end with material Cabling work including all like cable, passive items, I/O box, patch cord, Labour work, warranty and maintenance services as per the industry best practices and complying to the RFP requirement throughout the state to provide SCAN/ GSWAN connectivity at various GoG offices using OFC / CAT-6 cable. Bidder will be responsible to undertake and complete the works within the defined time frame related to supply, installation, testing and commissioning of services as indicated in the bid any where across the Gujarat state.

Coaxial or Optical Fibre Cable quoted/supplied/installed by the Bidder as per the scope of work of this RFP must be manufactured/made in India only. The works are to be completed on turnkey basis and the supplied equipments are required to be maintained for Three years from the date of FAT. The Bidder shall be responsible for implementation of the work as defined. Bidder is required to carry out following tasks but not limited to:

- 1) **Supply, Installation, testing and Commissioning of the LAN/WAN/OFC work:** The Bidder is required to carry out cabling work as per the requirements of GIL/DST/GoG. Bidder will have to carry the user details such as User name, IP address and Network Layout in respective file / respective offices for installation and commissioning of equipments. Bidder is required to send a mail to support@gswan.gov.in and other email addresses as specified by GIL/DST/GoG, from respective user account for the confirmation of Data.
- 2) **Turnkey Project Basis:** - The Bidder shall act as single Bidder to organize and manage the entire project – including design, supply, installation and commissioning of all required hardware, software, networking, accessory items and local wiring for Electrical power supply etc. at locations proposed by GIL/DST/GoG. The Bidder shall be in a position to test, demonstrate and certify the basic requirements in accordance with the contract.
- 3) **Technical arrangements:** The Bidder shall provide details of site and infrastructure requirements in a layout plan after making a site survey.
- 4) **Earthing Arrangement:** The Bidder shall provide wiring and pit specifications, Earth resistance etc. The Bidder shall arrange to construct separate earth-pits as required.
- 5) **Warranty and Post-Warranty Support:** The Bidder shall be responsible for the warranty support and also for the post warranty support and as required by the GIL/DST/GoG.
- 6) All goods or materials shall be supplied strictly in accordance with the specifications, Drawings, datasheets, other attachments and conditions stated in the RFP/ Agreement / SLA. All materials supplied by the Bidder shall be guaranteed to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials.
- 7) **Certification:** The Bidder shall test and certify the availability and reliability of the link and give the connectivity matrix between various locations and get it certified by GIL/DST/GoG.
- 8) **Documents:** The Bidder shall provide 1 set of documents and manuals (hard copy, soft copy with each item of the unit supplied). Bidder will have to submit the Escalation matrix with details of responsible person names, E-mail's and mobile numbers in order to solve any technical and non-technical problems throughout the life cycle of the project and warranty period.
- 9) **Reporting:** Detailed report is required to be submitted for the work under progress and for functional performance of the connectivity, throughput. The same have to be certified by GIL/DST or its representative agency. Bidder shall submit the installation plan for each location to GIL/DST or its representative agency, who in turn shall approve the plan before execution.

Bidder will have to fill up an installation and commissioning report and get it duly signed by concern officer with their seal and remarks if any.

- 10) GIL/DST/GoG reserves the right to redefine the requirement of services within the scope of items specified in the bid as required from time to time.
- 11) The Under Ground (U/G) Cables are to be buried at depth such that the top of the cable is One meter (1000 mm) below the normal ground level. The items of work involved in U/G Cable laying are as under: -
 - A. Excavations of trench up to a depth such that the top of the cable is 1 meter below the normal ground level according to the construction specifications.
 - B. Laying and pulling of cables in trenches through pipes/ ducts.
 - C. Placing of Half round RCC Pipes / Stones slabs /Precast RCC Slabs /Layer of Bricks as per specifications.
 - D. All the cables should be weatherproof, outdoor grade and as per BIS standard.
 - E. OFC LIU should be 24 pair (Fully Loaded) by default for all sort of OFC cabling work
 - F. OFC should be ETL/UL/TEC approved reputed make and manufactured in India only. The Vendor has to submit the Manufacturer test reports. Cable Type: Minimum Single Mode 6 (six) core Optical Fiber, 9/125^μm, armored outdoor type application.
 - G. Route indicators (Metallic) for OFC cable are to be placed for every 100 mtrs.
 - H. Joint indicators for OFC cable are to be placed for every OFC joint.
 - I. Digging and burying of OFC cable 1Km. Length and the OFC cables are to be laid in buried HDPE pipes. Diameter of the HDPE pipe should be 25mm of Std. Make with ISI mark.
 - J. Back filling in compacting of the excavated trenches according to the construction's specifications and removal of excess earth from the site.
 - K. Construction of pillar foundations erection, painting and sign writing of pillars.
 - L. Erection, termination, painting and sign writing of DPs
 - M. Termination of Cables in MDF and Pillars.
 - N. Jointing and End-to-End testing of Cables– Correspondence and Electrical tests. Supply, fixing, painting and sign writing of root and joint indicators.
 - O. Documentation: Submission of detailed diagram/drawing of work carried out.
 - P. Modernized Method of cable laying should be incorporated, where, minimum damage to the infrastructure is required i.e. cable laying machine is used for such purposes.
 - Q. Bidder is required to maintain work log and activity sheets on a software which facilitates reporting of there performance through SLA monitoring, the access to these reports to be made available to GIL/DST/GoG/its designated agency.
 - R. Bidder is required to submit the underground cable diagram with longitude and latitude from start point to end point including each turning point with cable length. (In form of hardcopy as well as soft copy in CD)
 - S. Bidder must comply and confirm the above-mentioned points in their proposals

3.2 **LAN/WAN/Structured Cabling WORKS**

All work shall conform to the Building Code, and all local codes and ordinances as applicable. Any exceptions to the above must have written authorization from DST/GIL/GoG. As mentioned above entire work has to be completed in turnkey/EPC manner. Further, below mentioned are the minimum tasks which Bidder will have to carry out during the work:

- (a) To carry out the feasibility study for the deployment of required LAN.

- (b) Bidder shall act as single Bidder to organize and manage the entire project including design, supply, installation and commissioning. The Bidder shall be in a position to test, demonstrate and certify the LAN connectivity in accordance with the contract.
- (c) The Bidder shall carry out site survey and prepare tentative BoM for the work to be carried out at that particular site. This BoM will have to be submitted to DST/GIL/GoG for approval along with a layout diagram indicating the location of equipment to be installed.
- (d) The Bidder will be responsible to undertake and complete the works related to supply installation and commissioning services across the Gujarat state.
- (e) In case of repairing or upgradation of existing links bidder will be responsible for removal of existing old/faulty cables or material without any additional cost to the purchaser.
- (f) The Bidder shall be using 4" GI Pipe as standard while installation of cabling work.
- (g) The Bidder shall be responsible to share the status report of existing infrastructure (i.e. Cable, network equipments, patch cord, OFC etc.), during resolving complaints.
- (h) The Bidder shall provide one copy of the Network Diagram, warranty documents, manuals and FAT/UAT reports etc. to concern local GOG/GSWAN authorities and another copy to DST/GIL for further process of completion of orders.
- (i) The Bidder will be responsible to provide the services at all the locations at the agreed price. Bidder is required to Supply and Install LAN components and commission LAN as per the requirements. The structured cabling works are to be completed on turnkey basis including installation of all required casing, conduits, flexi pipes, I/O boxes, Face Plates, removal of existing Lan infra if any, etc. To ensure quality of work done, no cable should be left bare or visibly exposed and the supplied equipments are required to be maintained for Three years from the date of FAT.
- (j) The Bidder shall be responsible for implementation of the work as defined. Delivered Solution must be tested and commissioned as per defined procedures before handing over the project to GIL/DST/GSWAN team. Any hardware equipments or software's required for those testing and commissioning procedures is the sole and full responsibilities of the bidder.
- (k) The Bidder shall be responsible for the 'On Site' warranty support and also for the post warranty support and as required by the GIL/DST/GoG. All goods or materials shall be supplied strictly in accordance with the specifications, drawings, datasheets, other attachments and conditions stated in the RFP/Agreement/ SLA. All materials supplied by the Bidder shall be guaranteed to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials.
- (l) The Bidder shall provide details of site and infrastructure requirements (Power, earthing etc.) in a layout plan after making a site survey.
- (m) Detailed report is required to be submitted for the work under progress and for functional performance of LAN, the connectivity, throughput. The same have to be certified by GIL/DST/ PROJECT COORDINATOR. Bidder shall submit the installation plan for each location to PROJECT COORDINATOR, who in turn shall approve the plan before execution. Bidder will have to fill up an installation and commissioning report and get the same duly signed by concern officer with there seal and remarks if any.
- (n) The successful bidder has to provide on-site warranty for all equipments as mentioned in RFP. Warranty period shall start from the date of successful acceptance by GIL/DST/GoG or its designated agency on completion of installation, testing and commissioning of the equipment.
- (o) On acceptance of work, a work completion report must be prepared by the bidder and signed by both parties GIL/DST/GOG or its designated agency and bidder. Only after signing the

completion letter, the beginning of the warranty period will be considered. During the warranty period, for each visit whether periodical or on call, whether preventive or corrective maintenance, the bidder contact person must inform to resident GSWAN team. A technical/service report of the work carried out must be signed by resident GSWAN engineer and bidder's representative.

- (p) The bidder should ensure that while installation or attending the complaints of LAN, day-to-day functioning of official work and existing network setup/connectivity/internet connectivity should not get disrupted.
- (q) The bidder will be responsible to undertake and complete the works related to supply installation and commissioning services as indicated in the bid any where in state promptly and within the time duration prescribed by GIL/DST/GoG/user department.

The bidder will be responsible to provide the services at all the site locations which also include Taluka places at the agreed price. Bidder is required to Supply/ Install / Commission Transceivers, OFC components, I/Os and Patch Cords, as per the specifications mentioned in the Bid document. The works are to be completed on turnkey basis and the supplied equipments are required to be maintained for Three years from the date of FAT. The Bidder shall be responsible for implementation of the work as defined.

(r) Standard Cabling Best Practices:

- A. For Cabling, the Cable used shall be Standard Branded CAT6, 100ohm, 4 pair unshielded twisted pair (UTP) For e.g. If 25 nodes are required at a floor with future expansion planning of 20 more nodes, then in such situation minimum hardware is required to be install is one Switch (48 Port) and one Patch panel for floor level distribution.
- B. All Floor uplink shall be provided on fiber only and if distance between two-point is less then 90 Mtr. CAT6 cable may be used for Up-link.
- C. All node should be connected to switch through I.O. Port and Patch panel only.
- D. Cable Tagging shall be at both side and at both end (i.e. node side and rack side and inside and outside of I.O port and Patch panel)
- E. Care must be taken to not to stretch or abrade cables during installation, i.e. the pulling tension for cables must not be exceeded.
- F. Cables that pass through the infrastructure of the building shall be suitably protected against damage. Through walls and floors this shall involve an appropriate type of sleeve; through any form of metalwork or stiff plastic then a rubber grommet shall be used.
- G. To ensure cable management and also strain relief, cables shall be properly dressed using Velcro cable ties. However, cables ties should never be over tightened.
- H. On vertical runs, the cables shall be dressed and tied from the bottom up, thus putting minimum strain on the cables.
- I. Cables shall not run behind radiators.
- J. In order that the system may be easily re-routed, or damaged sections quickly replaced, free access to the cable, where possible, is important
- K. Draw cords shall be left in ducting, piping etc. for future use
- L. Because of the nature of offices, dust sheets be used at all times.
- M. Special care shall be taken to avoid contact with dangerous materials e.g. asbestos

- N. Sharp bends in the cable will damage the insulating material thus causing unacceptable losses in the transmission medium. Therefore, the internal radius of every bend in a cable shall be such as not to cause damage to the cable, nor impair the characteristics of the cable.
- O. Patch panels shall be installed within the Communications 24 nodes from the top, continuing downwards.
- P. Patch panels shall be use of PCB Patch Panels.
- Q. The cable shall be clearly labeled at both ends, as outlined in the documentation and/or drawing.
- R. High power electrical plant may produce switching transients and radio frequency emissions that may induce interference on the UTP cable. Therefore, in addition to the rules imposed by the IEE Regulations, data cables shall not run parallel to power cables, especially where these cables may carry heavy switching loads. If, however, this is unavoidable it is advisable to keep cables as far as possible. (Like Transformer-100CM, Electric Meter- 100Cm Fluorescent Light-30Cm).
- S. Cable shall not be routed over pipes, conduits, other cabling, ceiling tiles, etc., but shall rest directly on the supporting surface so as to minimize the potential for sharp bends, kinks etc. Every cable used shall be supported in such a way that it is not 25 exposed to undue mechanical strain and so there is no appreciable mechanical strain on the terminations.
- T. For cables which are not continuously supported, the maximum distance between supports shall not exceed 50cm (horizontal or vertical).
- U. All newly installed Device must be capable of supporting CAT6a cabling.
- V. Floor Plans, both hard copy and Soft Copy, suitably marked up to show location and I.O. of each and every data point, and detailing any deviation from the original plan.
- W. Full Structured Cabling Test Results, via email or compact disc.

Section – 4: INSTRUCTION TO BIDDERS

ARTICLE – 1: COST OF BIDDING

- 1.1 The Bidder shall bear all costs associated with the preparation and submission of the Bid and Govt. of Gujarat (GoG) / Gujarat Informatics Ltd (GIL) will in no case be responsible for those costs, regardless of the conduct or outcome of the bidding process.
- 1.2 Bidder is requested to pay **Rs. 17,700/- (Including G.S.T.)** as a bid processing fee (Non-refundable) in the form of demand draft in favor of “Gujarat Informatics Ltd.” payable at Ahmedabad/Gandhinagar along with the EMD cover. In case of non-receipt of bid processing fees and EMD the bid will be rejected by GIL/GoG as non-responsive.

ARTICLE – 2: BIDDING DOCUMENTS

- 2.1 Bidder can download the bid document and further amendment if any freely available on <https://www.gil.gujarat.gov.in> and <https://www.gil.nprocure.com> and **upload the same on <https://www.gil.nprocure.com>** on or before due date of the tender. Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submits a Bid not substantially responsive to the bidding documents in every respect may result in the rejection of the Bid. Under no circumstances physical bid will be accepted.

ARTICLE – 3: CLARIFICATION ON BIDDING DOCUMENTS

- 3.1 Bidders can seek written clarifications 5 days before the Pre-Bid meeting date to Deputy General Manager (Tech), Gujarat Informatics Ltd., 2nd Floor, Block No. 2, C and D Wing, Karmyogi Bhavan Gandhinagar 382010. GIL will clarify and issue amendments if any to all the bidders in the pre-bid meeting. No further clarification what so ever will be entertained after the pre-bid meeting date.

ARTICLE – 4: AMENDMENT OF BIDDING DOCUMENTS

- 4.1 At any time prior to the deadline for submission of bids, DST/GIL, for any reason, whether at its own initiative or in response to the clarifications requested by prospective bidders may modify the bidding documents by amendment and put on our websites.
- 4.2 All prospective bidders are requested to browse our website and any amendments/ corrigendum/ modification will be notified on our website and such modification will be binding on them.
- 4.3 In order to allow prospective bidders a reasonable time to take the amendment into account in preparing their bids, DST/GIL, at its discretion, may extend the deadline for the submission of bids.

ARTICLE – 5: LANGUAGE OF BID

- 5.1 The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and DST/GIL shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in English. For purposes of interpretation of the bid, the translation shall govern.

ARTICLE – 6: SECTION COMPRISING THE BIDS

6.1 The quotation should be distinct without any option stated in.

6.2 The bid submitted shall have the following documents:

SECTION – I - The Bid Security: The bid security and bid processing fee (non-refundable) to be furnished to GIL office on or before due date. The details are required to be filled in this section.

SECTION – II - Eligibility and Technical Section:

- a) Clause by clause Compliance statement for Bid document including all annexure to be submitted.
- b) All annexure / Table, duly filled-in with necessary proofs, as required and stated in the bid document
- c) Letter of Authority for signing the bid.
- d) Make and Model of quoted in the bid with brochures\ internet printout.
- e) Supporting document related to eligibility Criteria.

SECTION –III - Price bid Section:

- a) Priced bid (in the prescribed format only).

ARTICLE – 7: BID FORMS

7.1 Wherever a specific form is prescribed in the Bid document, the Bidder shall use the form to upload relevant information. If the form does not provide space for any required information, space at the end of the form or additional sheets shall be uploaded in attachment to convey the said information. Failing to submit the information in the prescribed format, the bid is liable for rejection.

7.2 For all other cases, the Bidder shall design a form, sign it and upload to hold the required information.

7.3 DST/GIL shall not be bound by any printed conditions or provisions in the Bidder's Bid Forms.

ARTICLE – 8: FRAUDULENT and CORRUPT PRACTICE

8.1 Fraudulent practice means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial noncompetitive levels and to deprive the DST/GIL of the benefits of free and open competition.

8.2 "Corrupt Practice" means the offering, giving, receiving or soliciting of any thing of value, pressurizing to influence the action of a public official in the process of Contract execution

8.3 DST/GIL will reject a proposal for award and may forfeit the E.M.D. and/or Performance Guarantee if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, contract(s).

ARTICLE – 9: LACK OF INFORMATION TO BIDDER

The Bidder shall be deemed to have carefully examined all contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Bidder of his responsibility to fulfill his obligation under the Contract.

ARTICLE – 10: CONTRACT OBLIGATIONS

If after the award of the contract the Bidder does not sign the Agreement or fails to furnish the Performance Bank guarantee within seven (07) working days along with the inception report and

working schedule as per the tender requirements and if the operation are not started within seven (07) working days after submission of P.B.G. as mentioned, DST/GIL reserves the right to cancel the contract and apply all remedies available to him under the terms and conditions of this contract.

ARTICLE – 11: BID PRICE

- 11.1 The priced bid should indicate uniform Discount or Premium in the prescribed format/price schedule only.
- 11.2 Offered price after discount or premium should be exclusive of all applicable taxes such as GST/Service Tax, FOR destination (any where in Gujarat state).
- 11.3 Quantities can be increased or decreased by purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document.

ARTICLE – 12: BID CURRENCY

The prices should be quoted in Indian Rupees. Payment for the supply of equipments as specified in the agreement shall be made in Indian Rupees only.

ARTICLE – 13: BID SECURITY/ EARNEST MONEY DEPOSIT (EMD)

- 13.1 The Bidder shall furnish, as part of the Bid, a Bid security for the amount of **Rs. 20,00,000/- towards** EMD by unconditional bank guarantee/demand draft in favor of Gujarat Informatics Ltd payable at Gandhinagar/Ahmedabad in India in a separate envelope. The un-priced bid will be opened subject to the confirmation of valid Bid security. EMD as mentioned above shall be submitted in the form of Demand Draft OR in the form of an unconditional Bank Guarantee (which should be valid for 27 months from the last date of bid submission) of All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative and Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 along with its earlier referenced GRs issued by Finance Department or further instruction issued by Finance department time to time in the name of “Gujarat Informatics Ltd.” payable at Gandhinagar (as per prescribed format given at as per prescribed format given at Annexure A) and must be submitted along with the covering letter.
- 13.2 Unsuccessful Bidder's Bid security will be refunded within thirty (30) days from the award of work to the successful bidder.
- 13.3 The successful Bidder's Bid security will be discharged upon the Bidder signing the Contract/Agreement, and furnishing the Performance Bank Guarantee.
- 13.4 The Bid security may be forfeited at the discretion of DST/GIL, on account of one or more of the following reasons:
 - a) The Bidder withdraws their Bid during the period of Bid validity specified by them on the Bid letter form.
 - b) Bidder does not respond to requests for clarification of their Bid
 - c) Bidder fails to co-operate in the Bid evaluation process, and
 - d) In case of a successful Bidder, the said Bidder fails:
 - (i) To sign the Agreement in time
 - (ii) To furnish Performance Bank Guarantee

ARTICLE – 14: PERIOD OF VALIDITY OF BIDS

- 14.1 Bids shall remain valid for **2 years** after the date of Bid opening prescribed by DST/GIL. A Bid valid for a shorter period shall be rejected as non-responsive.
- 14.2 In exceptional circumstances, DST/GIL may solicit Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The Bid security shall also be suitably extended. A Bidder granting the request is not required nor permitted to modify the Bid.

ARTICLE – 15: FORMAT AND SIGNING OF BID

- 15.1 The bid shall be typed or written in indelible ink and shall be signed by the bidder or a person duly authorized to bind the bidder to the Contract/ Concession Agreement. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- 15.2 The complete bid shall be without alteration or erasures, except those to accord with instructions issued by the DST/GIL or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

ARTICLE – 16: SEALING AND MARKING OF BID

- 16.1 The bid security and bid processing fee (non-refundable) to be furnished to GIL office on or before due date and time. The details are required to be filled in this section. The envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late".
- 16.2 If the envelope is not sealed and marked as required, the DST/GIL will assume no responsibility for the bid's misplacement or premature opening.

ARTICLE – 17: BID DUE DATE

- 17.1 Bid must be received by the DST/GIL at the **<https://www.gil.nprocure.com>** specified in the Request for Proposal (RFP) not later than the date specified in the RFP.
- 17.2 The DST/GIL may, as its discretion, on giving reasonable notice by fax, cable or any other written communication to all prospective bidders who have been issued the bid documents, extend the bid due date, in which case all rights and obligations of the DST/GIL and the bidders, previously subject to the bid due date, shall thereafter be subject to the new bid due date as extended.

ARTICLE – 18: LATE BID

Any bid received by the DST/GIL after the bid due date/time prescribed in RFP shall be rejected.

ARTICLE – 19: MODIFICATION AND WITHDRAWAL OF BID

- 19.1 The Bidder may modify or withdraw its Bid after the Bid's submission at the **<https://www.gil.nprocure.com>**, prior to the deadline prescribed for submission of bids.
- 19.2 No Bid may be modified subsequent to the deadline for submission of bids.
- 19.4 No Bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of Bid validity specified by the Bidder on the bid letter form. Withdrawal of a Bid during this interval may result in the bidder's forfeiture of its Bid security.

ARTICLE – 20: OPENING OF BIDS BY DST/GIL

- 20.1 Bids will be opened in the presence of Bidder's representatives, who choose to attend. The Bidder's representatives who are present shall sign a register evidencing their attendance.

- 20.2 The Bidder's names, bid modifications or withdrawals, discounts and the presence or absence of relevant Bid security and such other details as the DST/GIL officer at his/her discretion, may consider appropriate, will be announced at the opening.
- 20.3 **Evaluation of the bids:** After the closing time of submission, DST/GIL committee will verify the submission of Bid Processing Fees and EMD as per bid terms and conditions. The eligibility criteria evaluation will be carried out of the responsive bids. The technical bids of the bidders who are complying with all the eligibility criteria will be opened and evaluated next. The financial bid of the technically qualified bidders will be opened and financially L1 bidder will be decided as per section I of price bid and then called for further negotiations.

ARTICLE – 21: CONTACTING DST/GIL

- 21.1 Bidder shall not approach DST/GIL officers out side of office hours and/ or out side DST/GIL office premises, from the time of the Bid opening to the time the Contract is awarded.
- 21.2 Any effort by a bidder to influence DST/GIL officers in the decisions on Bid evaluation, bid comparison or contract award may result in rejection of the Bidder's offer.

ARTICLE – 22: REJECTION OF BIDS

DST/GIL's right to reject any or all bids: DST/GIL reserves the right to reject any Bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for such decision.

ARTICLE – 23: PRELIMINARY EXAMINATION OF BID

- 23.1 Un-priced Bid documentation shall be evaluated in two steps.
- 23.2 Firstly, the documentation furnished by the Bidder will be examined based on the following criteria:
- Compliance to bid document
 - Evaluation of Eligibility Criteria and Technical Specifications of the Product / Solution Offered. (The bidder shall provide details in the bid)
 - Experience in handling such projects (the bidder shall provide information in the BID)
- 23.3 In the second step, DST/GIL may ask Bidder(s) for additional information, demonstration of the equipments, field testing of the equipments offered to check compatibility with the existing IT infrastructures, visit to Bidders site and/or arrange discussions with their professional, technical faculties to verify claims made in Unpriced Bid documentation.
- 23.4 **Priced Bid:** Priced Bids will be opened only if the bids are technically qualified and fulfill the Eligibility Criteria. DST/GIL may at its discretion discuss with Bidder(s) available at this stage to clarify contents of Priced Bid.
- 23.5 The quantity mentioned in the price bid is indicative to arrive at the L1 bidder. The actual quantity may vary during the period of contract i.e. 2 (Two) year depending upon the actual requirement.
- 23.6 **All the bidders shall submit their offer (Discount or Premium) as per the price bid and Financial evaluation will be carried out accordingly to indentify the L1 bidder.**
- 23.7 **Selection of L1 bidder: The Criteria for selection will be the L1 will be the lowest cost to TENDERER i.e. bidder with Highest Discounting rate of all line items without tax for the qualified bid.** TENDERER/GIL may negotiate the prices with L1 Bidder, under each item/head offered by Bidder.

ARTICLE – 24: AWARD OF CONTRACT

- 24.1 **Award Criteria:** The Criteria for selection will be the lowest effective cost to DST/GIL for the technically qualified bids.
- 24.2 **Contract Period:** This rate contract will be valid for a period of 2 Years. DST /GIL may consider extending the contract on completion of 2 years for further duration of 1 year based on the performance of the successful Bidder with price rise of 5%.
- 24.3 Bidders may take a note that “as this is an Rate Contract RFP wherein successful agency(s) will be empaneled for the execution of work as per the scope of work and RFP terms and conditions and it does guarantee any order/quantity. Orders will be released separately based on the actual requirement during the tenure of two years at the discovered prices”. Further, Quantities mentioned against the each-line item in the price bid are derived from the quantities ordered in the last Rate contract bid.
- 24.4 In case, if lowest bidder does not accept the award of contract or found to be involved in corrupt and/or fraudulent practices the work will be awarded to next lowest bidder subject to matching the L1 prices and so on.

ARTICLE – 25: NOTIFICATION OF AWARD and SIGNING OF CONTRACT

- 25.1 Prior to expiration of the period of Bid validity, DST/GIL will notify the successful Bidder and issue Lol.
- 25.2 Within Six (6) working days of receipt of the Contract Form, the successful Bidder shall sign and date the Contract and return it to the DST/GIL. Successful bidder has to submit Performance guarantee within seven (07) working days from the date of receipt of award as per “Article-35 of this section”.
- 25.3 Upon the successful Bidder's furnishing of Performance Bank Guarantee and signing of Contractual documents, The Bid Security of all unsuccessful Bidders will be refunded as per clause 13.3.

ARTICLE – 26: FORCE MAJEURE

- 26.1 Force Majeure shall mean any event or circumstances or combination of events or circumstances that materially and adversely affects, prevents or delays any Party in performance of its obligation in accordance with the terms of the Agreement, but only if and to the extent that such events and circumstances are not within the affected party's reasonable control, directly or indirectly, and effects of which could have prevented through Good Industry Practice or, in the case if construction activities through reasonable skill and care, including through the expenditure of reasonable sums of money. Any events or circumstances meeting the description of the Force Majeure which have same effect upon the performance of any contractor shall constitute Force Majeure with respect to the bidder. The Parties shall ensure compliance of the terms of the Agreement unless affected by the Force Majeure Events. The bidder shall not be liable for forfeiture of its implementation / Performance guarantee, levy of Penalties, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Agreement is the result of Force Majeure.
- 26.2 Force Majeure Event
The Force Majeure circumstances and events shall include the following events to the extent that such events or their consequences (it being understood that if a causing event is within the reasonable control of the affected party, the direct consequences shall also be deemed to be within such party's reasonable control) satisfy the definition as stated above. Without

limitation to the generality of the foregoing, Force Majeure Event shall include following events and circumstances and their effects to the extent that they, or their effects, satisfy the above requirements:

- 26.3 Natural events (“Natural Events”) to the extent they satisfy the foregoing requirements including:
- (a) Any material effect on the natural elements, including lightning, fire, earthquake, cyclone, flood, storm, tornado, or typhoon;
 - (b) Explosion or chemical contamination (other than resulting from an act of war);
 - (c) Epidemic such as plague;
 - (d) Any event or circumstance of a nature analogous to any of the foregoing.
- 26.4 Other Events (“Political Events”) to the extent that they satisfy the foregoing requirements including: Political Events which occur inside or Outside the State of Gujarat or involve directly the State Government and the Central Government (“*Direct Political Event*”), including:
- (i) Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, civil commotion, act of terrorism or sabotage;
 - (ii) Strikes, work to rules, go-slows which are either widespread, nation-wide, or state-wide and are of political nature;
 - (iii) Any event or circumstance of a nature analogous to any of the foregoing.
- 26.5 FORCE MAJEURE EXCLUSIONS
- Force Majeure shall not include the following event(s) and/or circumstances, except to the extent that they are consequences of an event of Force Majeure:
- (a) Unavailability, late delivery
 - (b) Delay in the performance of any contractor, sub-contractors or their agents;
- 26.6 PROCEDURE FOR CALLING FORCE MAJEURE
- The Affected Party shall notify to the other Party in writing of the occurrence of the Force Majeure as soon as reasonably practicable, and in any event within 5 (five) days after the Affected Party came to know or ought reasonably to have known, of its occurrence and that the Force Majeure would be likely to have a material impact on the performance of its obligations under the Agreement.

ARTICLE – 27: CONTRACT OBLIGATIONS

Once a contract is confirmed and signed, the terms and conditions contained therein shall take precedence over the Bidder’s bid and all previous correspondence.

ARTICLE – 28: AMENDMENT TO THE AGREEMENT

Amendments to the Agreement may be made by mutual agreement by both the Parties. No variation in or modification in the terms of the Agreement shall be made except by written amendment signed by both the parties. All alterations and changes in the Agreement will take into account prevailing rules, regulations and laws.

ARTICLE – 29: USE OF AGREEMENT DOCUMENTS AND INFORMATION

- 29.1 The bidder shall not without prior written consent from DST/GIL disclose the Agreement or any provision thereof or any specification, plans, drawings, pattern, samples or information furnished by or on behalf of DST/GIL in connection therewith to any person other than the person employed by the bidder in the performance of the Agreement. Disclosure to any such

employee shall be made in confidence and shall extend only as far as may be necessary for such performance.

- 29.2 The bidder shall not without prior written consent of DST/GIL make use of any document or information made available for the project except for purposes of performing the Agreement.
- 29.3 All project related documents issued by GoG other than the Agreement Itself shall remain the property of DST/GIL and Originals and all copies shall be returned to DST/GIL on completion of the bidder's performance under the Agreement, if so required by the DST/GIL.

ARTICLE – 30: ASSIGNMENT and SUB CONTRACTS

30.1 Assignment by bidder

The bidder shall not assign, in whole or in part, its rights and obligations to perform under the Agreement to a third party, except with the prior written consent from DST/GIL.

30.2 Sub contracts

The bidder shall notify the DST/GIL in writing of all subcontracts awarded under the Contract Agreement. Such notification shall not relieve the bidder from any liability or obligation under the Agreement. The bidder shall fully indemnify GoG for any claims/damages whatsoever arising out of the Sub contracts.

ARTICLE – 31: RESOLUTION OF DISPUTES

- 31.1 If any dispute arises between the Parties hereto during the subsistence or thereafter, in connection with the validity, interpretation, implementation or alleged material breach of any provision of the Agreement or regarding a question, including the questions as to whether the termination of the Contract Agreement by one Party hereto has been legitimate, both Parties hereto shall endeavor to settle such dispute amicably. The attempt to bring about an amicable settlement is considered to have failed as soon as one of the Parties hereto, after reasonable attempts [which attempt shall continue for not less than 30 (thirty) days], give 15 days notice thereof to the other Party in writing.
- 31.2 In the case of such failure the dispute shall be referred to a sole arbitrator or in case of disagreement as to the appointment of the sole arbitrator to three arbitrators, two of whom will be appointed by each Party and the third appointed by the two arbitrators.
- 31.3 The place of the arbitration shall be Gandhinagar, Gujarat.
- 31.4 The Arbitration proceeding shall be governed by the Arbitration and Conciliation Act of 1996 as amended.
- 31.5 The proceedings of arbitration shall be in English language.
- 31.6 The arbitrator's award shall be substantiated in writing. The arbitration tribunal shall also decide on the costs of the arbitration procedure.
- 31.7 The Parties hereto shall submit to the arbitrator's award and the award shall be enforceable in any competent court of law.

ARTICLE – 32: TAXES and DUTIES

bidder is liable for all applicable taxes and duties at actual and will be paid by DST/GIL while releasing the payments.

ARTICLE – 33: BOOKS and RECORDS

Bidder shall maintain adequate books and records in connection with Contract and shall make them available for inspection and audit by GoG/DST/GIL during the terms of Contract until expiry of the performance guarantee.

ARTICLE – 34: Time Lines for execution of work

Successful bidder has to complete the Installation/ Commissioning/ Acceptance of the ordered work within the time period (s) specified in the below table. However, in case of any delay solely on the part of successful bidder DST/GIL reserve the right to levy the appropriate penalties as per the below table:

S/n	Work type	Time Limit for Execution	Penalty for Delay	Maximum Penalty
1	New Connection: Data Type	30 Days	5% of order value per week	25%
2	Repair and Maintenance			
2.1	Involving Under Ground Cable	4 Days	Rs. 5000/- for every 4 Days	Rs. 25000/-
2.2	Involving LAN Cabeling in Building	3 Days	Rs. 1000/- for every 3 Days	Rs. 5000/-
2.3	Involving Fault with electronic devices	2 Days	Rs. 1000/- for every 2 Days	Rs. 3000/-
2.4	Involving fault with connector/ patch cord/ RJ 45 port/ Termination boxes/ DP Electricity fault, Non-electronic device fault)	2 Days	Rs. 500/- for every 2 Days	Rs. 1000/-

Note:

- Material supplied, installed and commission as per this rate contract should be covered under the **warranty for a period of 36 months from the date of FAT or 42 months from the date of installation**, which ever is earlier.
- In case of any fault arised during the warranty period (as mentioned above), as per the specification of the RFP the successful bidder is requires to install the replacement of faulty material at free of cost.
- **In case of Non-Compliance of RFP Specification:**
 - Any time during the warranty period it is found that the materials supplied/Installed/commissioned are not as per the specification of the RFP/work order DST/GIL reserves the right to ask the successful bidder to replace all such material at free of cost.
 - Successful bidder requires to attend and rectify the non-complaine within seven (7) days of receipt of such notice/information from the DST/GIL. If, successful bidder fails to attend and rectify the same, then successful bidder shall reimburse DST/GIL all costs and expenses incurred for such defect rectification.

ARTICLE – 35: PERFORMANCE GUARANTEE

35.1 **Intially** the bidder will have to submit performance bank guarantee **of Rs. 40 Lacs** within 15 days from the date of issue of work order/Letter of Intent. The performance guarantee will be in the form of bank guarantee towards faithful performance of the contract obligation, and performance of the equipments during Warrantee period of 3 years. In case of poor and unsatisfactory field services, DST/GIL/GoG/user department shall invoke the PBG. If, during the contract tenure above PBG of Rs. 40L become lower than the 10% of the ordered issued in this RC than bidder will have to submit additional PBG in consultation with GIL/DST/TPA to

maintain the 10% PBG limit. The performance guarantee will be in the form of bank guarantee towards faithful performance of the contract obligation, and performance of the equipments during Warranty period of 3 years. In case of poor and unsatisfactory field services, GIL/DST/GoG/user department shall invoke the PBG.

- 35.2 The Performance Guarantee shall be **valid for a period of 180 days beyond Warrantee period** and shall be denominated in Indian Rupees and shall be in the form of an unconditional Bank Guarantee issued by All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative and Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 along with its earlier referenced GRs issued by Finance Department or further instruction issued by Finance department time to time in the format provided by GoG to be submitted within 15 days from the date of issue of work order/Letter of Intent. The Performance Guarantee shall be discharged by GoG and returned to the bidder within 30 days from the date of expiry of the Performance Bank Guarantee.

ARTICLE – 36: PAYMENTS TERMS

S/N	Description	(%)
1	Successful completion of Installation and certification by DST/GIL or its representative agency (OandM operator of GSWAN, GSDC)	100%

ARTICLE – 37: SERVICE TERMS

- 37.1 The entire scope of the work depends on the technical skill and experience in management of the same level or kind of infrastructure.
- 37.2 It is mandatory for successful bidder to deploy qualified professional to install, commission and maintain the equipments, as defined under scope of work.
- 37.3 The successful bidder has to submit regular schedule of man power availability and get it approved by GIL/DST/GoG.
- 37.4 The successful bidder has to deploy necessary problem escalation process and system to take care users at priority.
- 37.5 The successful bidder is free to deploy or to develop applications to facilitate the operation. GIL/DST/GoG will welcome the deployment such application in respect to improve Quality of Services.
- 37.6 For extending better services to the government, the successful bidder will be allowed to deploy and use own tested and proven solution, with prior permission form the GIL/DST/GoG.
- 37.8 The successful bidder needs to manage and maintain various records related to the services extended to the Government.
- 37.9 The Government network is being operated and maintained by various agencies. In such circumstances the successful bidder may need to coordinate and approach various agencies, if required.
- 37.10 The successful bidder needs to maintain the required security of network, database, e-mails etc. related to the government operations.
- 37.11 The successful bidder is responsible to maintain documentation on the progress of the work and will have to update the same on regular basis. Bidder will have to submit the progress reports regularly, as per the guide line issued by GIL /DST/ GoG.
- 37.12 The understanding of the comprehensive maintenance under warranty period is as follows.

- 37.12.1 In case of failure, the successful bidder needs to replace or repair the faulty part/component/device to restore the services at the earliest.
- 37.12.2 The cost of the repairing or replacement of faulty part/component/device has to be entirely born by the successful bidder.
- 37.12.3 All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be born by the successful bidder as part of comprehensive maintenance.
- 37.12.4 The successful bidder also needs to make alternate arrangement in case of major failure happens in the network, due to which services may be affecting for longer period.
- 37.12.5 After repairing or replacement of the part/component/device, the successful bidder needs to put the same into operation.
- 37.13 The escalation of the rate during the rate contract is not permitted.

ARTICLE – 38: PENALTY CLAUSE

38.1 Operational Penalties:

38.1.1 The successful bidder shall repair/ replace all faulty material covered under the warranty within the shortest possible time thus ensuring minimum downtime as mentioned in point no 38.1.1.1, failing which applicable penalty will be imposed. The following penalties for Operational Deficiencies shall apply:

38.1.1.1 The successful bidder shall be responsible for maintaining the desired performance and availability of the system/services. Successful bidder should ensure the prompt service support during warranty period. If complain is made before 4 pm of the working day, the same should be resolved as follows.

- a) Within 8 hours for offices located at District Headquarter, including other offices.
- b) Within 24 hours for offices located at Taluka and at all other remaining locations.

If the successful bidder fails to resolve the call as specified above, the following penalty will be imposed on each delayed day, which will be recovered against Performance bank guarantee submitted by the successful bidder on completion of warranty period.

Site/Location	Penalty/Day, for each day, if problem is not resolved within 8 hours	Penalty/Day, for each day, if problem is not resolved after 24 hours
All Sites	Rs. 1000/- Per day	Rs. 2000/- Per day

ARTICLE – 39: APPROVALS / CLEARANCES

- 39.1 Necessary approvals/ clearances concerned authorities, for establishing the proposed project are to be obtained by the successful bidder.
- 39.2 Necessary approvals/ clearances from concerned authorities, as required, for fire protection, government duties / taxes / Octroi, are to be obtained by the successful bidder.
- 39.3 Necessary approvals/ clearances, from concerned authorities (like City Nagar, Nigam, Public Works Department (PWD), Department of Irrigation, State Electricity Board etc. for “Right of way”), as required, are to be obtained by the successful bidder for laying their own cables to meet system requirements

ARTICLE – 40: PROJECT IMPLEMENTATION

- 40.1 The successful bidder will implement the project strictly as per the plan approved by DST/GIL. The Bidder shall carry out cabling work at such locations as may be selected by DST/GIL within a specified period as specified in Instruction letter / LOI / Order and complete their provisional Acceptance Test to the satisfaction of DST/GIL within 10 days from the date specified. This period may be extended depending upon the fulfillment of Conditions Precedent.
- 40.2 GIL, Government of Gujarat will be Engineer-In-Charge of the Project and all inspection, installation; commissioning and acceptance of work will be undertaken by its designated agency(s).
- 40.3 Successful bidder has to submit Invoice alongwith initial estimate, Bill of Material, Work Order Copy, PBG, Work Completion report, Test Mail, IT Asset Report (Need to cover all BOM Material), NMS Discovery Report etc. All Invoices, Vouchers, Bills for supplied goods and services by the bidder under the scope of the work will be verified measured and accepted by the Engineer-In-Charge/ its designated agency(s) for release of payment.
- 40.4 As part of implementation the successful bidder shall provide details of equipment that will be incorporated in the proposed system, material and manpower as required. The location for storing spare parts and quantity there on should also be clearly indicated.
- 40.5 The successful bidder shall provide the necessary technical support, Standard Operating Procedure (SOP) and other information to DST/GIL and its user organizations in implementing the proposed system applications. DST/GIL at any time during the currency of the Agreement should have access to the proposed sites.
- 40.6 The successful bidder shall arrange to obtain all statutory permission with no cost to the Government of Gujarat. The successful bidder may have to work during Holidays and Sundays, the successful bidder will have to obtain required permission to carry out the work on holidays/Sundays from the concerned. It will be the responsibility of the successful bidder to co-ordinate with all other agencies of Government of Gujarat in order to obtain NOC required to execute the job.
- 40.7 The successful bidder shall not disturb or damage the existing network of communication. If in case any damage to the network is done, the same shall be corrected with no extra cost. The successful bidder shall also be responsible for paying penalty, as imposed by the service owner to which the damage is incurred.
- 40.8 In case of the material/solution supplied and installed is rejected owing to its non-conformity to the specification or due to the poor quality of workmanship, the same shall be replaced promptly.
- 40.9 successful bidder shall treat all matters connected with the contract strictly confidential and shall undertake not to disclose, in any way, information, documents, technical data, experience and know how, without prior written permission from DST/GIL.
- 40.10 Any damage caused to the property of Government of Gujarat while executing the job shall be solely successful bidder's responsibility. In case any damage to the property is caused, the same will be recovered from the successful bidder. No any extra cost shall be paid to the successful bidder for such reasons.
- 40.11 The successful bidder shall have to furnish the documentation of the work undertaken in consultation with Engineer-in-charge/DST/GoG rep. 3 sets of such documentation should be provided before the issue of completion certificate.
- 40.12 It is a turnkey project. The successful bidder shall be fully responsible for implementing the Project in totality and should include the items and their prices, if not included in Schedule of

Requirement to complete the project on turnkey basis. Any claim whatsoever in this regard will not be entertained later on.

- 40.13 In the event of the delay in delivery of contracted services or services is not satisfactory the purchaser may procure goods from elsewhere as prescribed in bid and successful bidder shall be liable with out limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the successful bidder.
- 40.14 DST/GIL/GoG reserves the right to visit any working site of the successful bidder without prior intimation.
- 40.15 The successful bidder shall be solely responsible for obtaining necessary insurance as per the statutory requirement under government laws for manpower and machinery on the site. GIL/GoG will not be responsible for any kind of loss or damage to the successful bidder during the contract period.
- 40.16 All work shall be performed and executed by the Supplier in strict conformity with the engineer-in-charge / representative from GoG and any relative instruction issued to the Supplier by the Engineer-in-charge time to time.

ARTICLE – 41: ACCEPTANCE TEST

Acceptance Test will be conducted in as follows:

- 41.1 DST/GIL/Government of Gujarat reserves the right to inspect equipments and OFC, CAT-6 cables etc. The cost of all such tests shall be borne by the successful bidder. Any inspected goods fail for confirm to specification will be rejected, and successful bidder shall have to replace the rejected goods as per the contract specification without any financial implication to the GoG/GIL. Further DST/GIL/GoG may issue a show cause notice in such matter with warning of backlisting if it found. Sample approval should be obtained before installation for such material.
- 41.2 The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 41.3 **Final Acceptance Test (FAT):** After successful installation of the System in accordance with the requirements as mentioned in Schedule of Requirement, Final Acceptance Test will be conducted. After successful testing, Acceptance Test Certificate will be issued by DST/GIL/its designated agency to the successful bidder. FAT Checklist is as per Form **E10**.
- 41.4 The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the System.
- 41.5 Any delay by the successful bidder in the Acceptance Testing shall render the successful bidder liable to the imposition of appropriate Penalties.
- 41.6 All goods and services that are not specifically asked for certification should have quality standard applicable in India such as ISI.
- 41.7 Bidder is required to update the details of Hardware installed in the Assest Master of IWDMS before completion of FAT.
- 41.8 The final acceptance test (FAT) report should confirm with cabling standard under the ISO certification.

ARTICLE – 42: INSTALLATION REQUIREMENTS

- 2.1 The successful bidder needs to pull necessary cables up to required place, using approved PVC Casing/Piping/Channel/RF/CAT6 Cable.

42.2 The necessary Civil and Electrical work has to be carried out by the successful bidder. The GoG will not reimburse any cost towards the same. The successful bidder need to take necessary permission if require from concern authority.

ARTICLE – 43: SOFTWARE LICENCES (IF APPLICABLE)

The bidder shall be responsible for providing Software (System Software, Application Software, Device Drivers, IOS, etc) required, if any, to meet any additional requirements during the currency of the Agreement without any additional cost to GoG. All license software must be in the name of DST, Govt. of Gujarat. The ownership of any involved customize software will be of the DST, Govt. of Gujarat.

ARTICLE – 44: INSTALLATION OF ADDITIONAL HARDWARE (IF APPLICABLE)

During the currency of the Agreement, for any additional requirement of equipment including interface equipment, the specifications will be provided by the Bidder. DST/GIL/The Third Party Agency will verify suitability of the specifications submitted by Bidder and recommend to DST/GIL for acceptance. The Bidder will be obligated to undertake integration, operation and maintenance for all additional equipments if required.

ARTICLE – 45: THIRD PARTY AGENCY

DST/GIL may appoint Third Party Agency, who would monitor the project during implementation, commissioning and operation. The Third Party Agency will also conduct the Partial and Final Acceptance Test as per the technical requirement of the Agreement and will issue the Certificate of Completion of each proposed site. Third Party Agency will verify the services provided by the Bidder under the Agreement. The successful bidder will co-operate with such Third Party Agency.

ARTICLE – 46: SUPPORT FROM EXTERNAL AGENCY (IF APPLICABLE)

In case, if bidder wish to have support from any external agency, it's very necessary to inform GIL/GoG in written prior to allow them to work on GIL/GoG infrastructure. The information should contain all respective information about the company from whom support has been extended, the person/group of people and the segment in which services has been taken. On completion of the task, another report should be submitted mentioning action taken by this person/group of people from external agency, with duration. The bidder is sole responsible for the action taken by such agency on their behalf. No Data/ Information should be sent out of the premise without obtaining prior written confirmation from the GIL/GoG.

ARTICLE- 47: Managebility (Online Portal)

DST/GIL has an online portal for its entire Helpdesk Management system (i.e. www.gswanhelpdesk.gujarat.gov.in) wherein request for new connectivity of GSWAN, user complaints will be raised by the users on this portal only. Successful bidder will be provided with separate login of the portal wherein he has to do following activities:

- Work status updation
- Complaints resolutions pertaining to the connectivity

Section – 5: SPECIFICATIONS

5.1 CABLE LAYING WORKS

5.1.1 General

The Underground OFC are extensively used in outdoor network of GSWAN / SCAN networks. The cables are laid from GSWAN nodes to Distribution Points (DPs). For the purpose of flexibility, Pillars / Junction boxes are introduced in the network. The primary cables, which are of higher size, are laid from GSWAN / SCAN locations to Pillars / Junction boxes. The distribution cables are laid from Pillar / Junction box to DP. The capacity of Pillars and DPs are decided in accordance with demand and size of the network. The quality of construction of U/G cable Net Work decides the quality and reliability of GSWAN/SCAN services, delivered to the users to a large extent. Therefore, the construction practices of the U/G cables should be of very high quality, strictly in accordance with constructions specifications.

The Cables / Components / Accessories to be used in the project must be of specified brand. Wherever it is not specified it must be of standard quality (ISI / BIS standards). Bidder will have to provide test certificate from the manufacturer, to ensure the quality of the each and every lot of the cable / material used. Bidder will have to submit quality certificate issued by EQDC, Gandhinagar or its equivalent authority, for all the passive material supplied such as Cables, accessories, GI / HDPE pipes, Cable guides, Casing and Capping, Patch Cords, Racks, DP, Krone / connectors etc.

Bidder should supply/install all required accessories whether it is mentioned explicitly or not to adhere to the scope of work of this RFP. All active network components should be IPv6 compatible and should be with IPv6 ready from Day1.

5.1.2 Construction Specifications:

5.1.2.1 Classification of Soil: For the purpose of trenching, the soil shall be categorized as under.

5.1.2.1.1 Soft Soil

This will include all types of soils- soft soil/hard soil / morrum i.e any strata, such as sand, gravel, loam, clay, black cotton morrum, single, river or nalla bed boulders, soiling of roads, paths, densely pebbles/stones etc., lime concrete, mud concrete and their mixtures which for excavation yields to the application of picks, showels, sacrifiers, ripper and other manual digging implements including chiseling.

5.1.2.1.2 Footpaths / Along Road Side:

Trenching on Foot Path or along Road on carpeted surface may be necessary in certain stretches where roads have been metalled edge to edge and there is no un-metalled corridor or footpath available for trenching and laying the cables.

- (i) Tarmac (Asphalt) Foot Path/ Road: means Foot path / Road with tarmac surface with or without compacted strata below the tarmac surface, irrespective of thickness of Tarmac/Metal.

- (ii) Kharanja: means Footpath / Road covered with various types of bricks with or without compacted strata below the surface, irrespective of thickness of bricks.
- (iii) Tiled Foot Path/ Roads: means Footpath / Road covered with various types of tiles/stone slabs with or with out compacted strata below the tiled surface, irrespective of thickness of tiles / stone slabs.
- (iv) Cement Concrete Foot Path Road: means the surface on Footpath / Road covered with CC (Cement Concrete) with or without compacted strata below the surface, irrespective of thickness of cement concrete.

5.1.2.2 Road Crossings:

- (i) "Tarmac or Asphalt Road" means the road surface, which is metalled by sphalt/tarmac normally having compacted strata below the metalled surface, irrespective of thickness of asphalt/tarmac.
- (ii) Kharanja Road: means road covered with various types of bricks with or without compacted strata below the tiled road surface, irrespective of thickness of bricks.
- (iii) Tiled/CC Road: means road made of tiles of any type/stone slabs/bricks or CC road normally having compacted strata below the tiled/CC surface, irrespective of thickness of tiles/CC.
- (iv) RCC Road: means the surface made of cement concrete duly reinforced with steel bars normally having compacted strata below RCC, irrespective of thickness of RCC.
- (v) WBM road: means water bound mecadam surface made of stone, metal and gravel and rolled with road roller. At road crossings, the trenches shall be so dug that top of RCC pipe shall be at one-meter depth from ground level.

5.1.2.3 Excavation of Trenches

Before excavation of trenches the route should be marked for trenching. Care should be taken to see that the route of the trench to excavate is reasonably straight avoiding the existing underground service.

The Bidder should take trial pits to locate the underground services before commencement of actual trenching. These trial pits shall be 30 cms. wide, 120 cms. deep and 120 cms. long at right angles to the proposed trench at an interval of 20 to 50 Mtrs along the proposed cable route. If a slab is encountered, the same may be removed and trial pits may be made.

In city areas, the trench will normally follow the footpath or the road except where it may have to come to the edge of carriage way or cutting across roads with the specific permission from the concerned authorities maintaining the road (such permission shall be obtained by the Bidder). Outside the city limits, the trench will normally follow the boundary of the roadside land. However, where the roadside land is full of burrow pits or when the cables have to cross culverts / bridges or streams, the trench may come closer to the road edge or in some cases, over the embankment or shoulder of the road (Permission for such deviations for cutting the embankment as well as shoulder of the roads shall be obtained by the Bidder).

The alignment of the trench will be decided by Engineer-In-Charge or by TPA. Once the alignment is marked, no deviation from the alignment is permissible except with the approval of Engineer-In-Charge or TPA. While marking the alignment only the centre line will be marked and the Bidder shall set out all other works to ensure that, the excavated trench is as straight as possible. The Bidder shall provide all necessary assistance and labour, at his own cost for marking the alignment. Bidder shall remove all bushes, undergrowth, stumps, rocks and other obstacles to facilitate marking the centre line without any extra charges. It is to be ensured that minimum number of bushes and shrubs shall be removed to clear the way and the Bidder shall give all consideration to the preservation of the trees.

The line-up of the trench must be such that cables shall be laid in a straight line except at locations where it has to necessarily take a bend because of change in the alignment or gradient of the trench.

5.1.3 Methods of Excavation:

In city limits as well as in built up areas, the Bidder shall resort to use of manual labour only to ensure that no damage is caused to any underground or surface installations belonging to other public utility services and / or private parties. However, along the Highways and across country routes, there shall be no objection to the Bidder resorting to mechanical means of excavation, provided that no underground Installations exist in the path of excavation, if any, are damaged. There shall be no objection to resort to horizontal boring to bore a hole of required size and to push through G.I. Pipe through horizontal bore at road crossing or rail crossing or small hillocks etc.

Necessary barricades, night lamps, warning boards and required watchman shall be provided by the Bidder to prevent any accident to pedestrians or vehicles. When trenches are excavated in slopes, uneven ground, inclined portion, and the lower edge shall be treated as normal level of the ground for the purpose of measurement of depth of the trench. In certain locations, such as uneven ground, hilly areas and all other places, due to any reason whatsoever it can be ordered to excavate beyond standard depth of 100 Cms. above the cable to keep the bed of the trench as smooth as possible.

If excavation is not possible to the minimum depth of 100 Cms. above the cable, as detailed above, full facts shall be brought to the notice of the Engineer-In- Charge / TPA in writing giving details of location and reason for not being able to excavate that particular portion. Approval may be granted in writing under genuine circumstances. The Bidder shall be responsible for all necessary arrangements to remove or pump out water from trench. The Bidder should survey the soil conditions encountered in the section and make his own assessment about dewatering arrangements that may be necessary. Wherever the soil is hard due to dry weather conditions, if watering is to be done for wetting the soil to make it loose, the same will be done by the Bidder.

5.1.3.1 Trenching near culverts / Bridges:

At bridges and culverts the cable shall be laid in GI pipe of suitable size with the permission of concerned authorities maintaining the roads/bridges. Such permission shall be obtained by the Bidder. While carrying out the work on bridges and culverts, adequate arrangement

for cautioning the traffic by way of caution boards during day time and danger lights at night shall be provided. The GI pipe should be clamped to the outside of the parapet wall of the culvert or bridge with the help of clamps, nails, nuts, bolts and screws of suitable size to ensure that the pipe is securely fixed. The GI clamps should be of minimum 25 mm width and 3 mm thickness and should be fixed at an interval of 50 cms. If necessary, the pipe should be taken to the parapet walls at the ends where the wall diverges away from the roads. The work should be carried out in consultation with the authorities concerned maintaining the roads and bridges.

In case of small bridges and culverts, where there is a likelihood of their subsequent expansion and remodeling, the cable should be laid with some curve on both sides of the culvert or the bridge to make some extra length available for readjustment of the cable at the time of reconstruction of culvert or the bridge.

5.1.3.2 Excavation in Surfaced Strata:

5.1.3.2.1 Excavation on Footpath

The excavation of trenches in all types of footpaths including dismantling of asphalt/all type of tiles/CC and WBM shall be done up to a depth such that the top of the cable is 1.0 M below the normal ground level. The excavation on the footpaths will be done manually. The Bidder shall have to provide shoring wherever necessary, in case the depth of trench is more than one meter. It is expected that the other services may be present below the footpath, therefore, extra care need to be exercised while excavation of trenches.

5.1.3.2.2 Excavation of Trenches along the roads (which are carpeted end to end)

The excavation of trenches along the roads which are carpeted from end to end including dismantling of asphalt, concrete and WBM shall be done up to a depth such that the top of the cable is 1.0 M below the normal ground level. The excavation along the roads shall be done manually. The Bidder shall have to provide shoring wherever necessary, in case the depth of trench is more than one meter. It is expected that the other services may be present below the roads, therefore, extra care need to be exercised while excavation of trenches.

5.1.3.2.3 Excavation at Road Crossings:

The excavation of trenches in all types of roads including dismantling of asphalt / all type of tiles / CC and WBM shall be done up to a depth such that the top of the RCC pipe is 1.0 meter below the normal ground level. After excavation of trench, RCC Pipes of 100mm/ 150mm/225mm /300mm dia shall be laid at the road crossings. The roads, which are broad, may be opened for half their width, allowing the other half for use of vehicular traffic. The second half of the width should be opened after laying pipes and reinstating the first half of the trench. Pipes laid in the second half should be coupled firmly with those laid in the first half. Care must be taken to couple the pipes fully. The pipes should be laid with a slight slope from the center to the sides of the road to prevent collection of water. 8 mm PP Rope shall be drawn through the laid pipes to facilitate cleaning and cable pulling at a later date before closing the trench.

As the work on road crossings entails lot of inconvenience to vehicular traffic and pedestrians, it is desirable to bury extra pipes for future expansion at the initial stage itself. The spare pipes must be sealed properly at both the ends of the road to obviate the possibility of pipe getting choked due to settlement of sedimentation etc. The Bidder shall have to provide shoring, wherever necessary, in case the depth of trench is more than one meter. Necessary barricades, night lamps, warning boards and required watchman shall be provided by the Bidder to prevent any accident to pedestrians or vehicles.

5.1.4 Trenches of Less Depth:

The depth of trench is very important for future life of cables. Therefore, it is very much necessary for Bidder to ensure that the standard depth is maintained in normal circumstances. However, due to obstructions, if the standard depth cannot be achieved, lower depths up to certain limits are acceptable by the authorities with extra protection as per specifications. The relaxation shall be obtained from the Engineering in charge/ TPA, giving reasons for not achieving standard depth.

5.1.5 Laying of Cables:

After excavation of trenches, approximately 5 Cms thick bed of soft soil/ or sand (in case the excavated material contains sharp pieces of rock/stones) is laid before directly laying the cable. Adequate care shall be exercised while laying the cables so that the cables are not put to undue tension/pressure as this may adversely affect the electrical characteristics of cables with passage of time. Sharp bends shall be avoided. Bends, if any, the radius of curvature should be more than at least six times the diameter of the cable. After the completion of laying, sand/ sieved earth, free of stones etc., shall be placed over the cable to a height of 7.5 Cms. duly levelled and rammed lightly to form a bedding for warning bricks or Half round RCC pipes/ stone slab/ Pre cast RCC slab for mechanical protection.

The cables may be required to be pulled through RCC/ GI Pipes at road crossings, Extra care should be taken to avoid damage to the cable while pulling through pipes which may occur due to kinks. The Bidder should have the required tools and equipments for the purpose to complete the job in a professional manner. The Bidder shall ensure that trenching and cable laying activities are continuous, without leaving patches or portions incomplete in between. When there are number of cables of the same size in the same trench it becomes difficult to identify the particular cable at time of maintenance. Therefore, identification collars bearing L.I. Number of the cable shall be tagged to all the cables. The identification collars shall be provided at an interval of not more than 2 meters.

5.1.5.1 Laying of OFC through Horizontal Directional Drilling (H.D.D.)

Excavation of trench and laying of HDPE Pipes through H.D.D. technique. The Optical Fibre Cable shall be laid through PLB HDPE pipes. Back filling and dressing of the excavated trenches. Blowing/puling of Optical Fiber Cable with proper tools and accessories.

5.1.6 Placing of Half Round RCC Pipes / Layer of Bricks

After laying of cables, it is covered by a consolidated layer of 8 Cms. of soft earth (or sand in special cases where excavated material contains sharp stones/objects) which should be free

from stones or other sharp objects, carefully pressed and lightly tamped. On this layer of soft earth, a layer of half round RCC pipes (100/150 mm dia) / Bricks is placed as a warning layer and also as a mechanical protection. The choice for protection layer out of half round RCC Pipes or bricks may be decided based on availability and comparative cost.

5.1.7 Back Filling and Compacting of the Excavated Trenches:

After laying the cables and providing warning/protection layer as per specifications, the remaining portion of the trench shall be filled in and well tamped in steps. The trench should be back filled in layers not exceeding 20 cms. each at a time and rammed. The Bidder shall remove the excess earth from the site and leave only a crown of earth rising approximately 5 cms. in the centre. This allows for natural subsidence. When digging on footpaths, along roads and crossings, care should be taken to see that the road is made motorable as soon as the work is completed. The permanent reinstatement of roads and pavement shall be done by the local authorities.

5.1.8 Erection of Pillars:

The pillars should be installed in safe places on footpaths at suitable locations convenient and accessible for maintenance. The positions close to the edge of footpaths, near transformers or below Electric Lines particularly H.T. Lines must be avoided. The location of pillar, which may obstruct the view of drivers of vehicles as on kerb lines at street intersections, locations in which the doors of the pillars when opened constitute a danger to pedestrians or traffic must be avoided. In general, the pillar shall be so located that reasonable and safe working conditions to the staff are possible throughout the year. The height of the pillar shall be such that the pillar does not get submerged during rains.

5.1.9 Erection of DPs:

The Distribution Points (DPs) are fitted on poles, walls or in the staircase walls easily accessible for maintenance, to terminate distribution cables coming from pillars. The items of work in erection of DPs are as under:

- I) Fixing of 20/32 mm G.I. Pipe with the help of clamps, nails and saddles at every 30 cms. The clamps should be made of 25 mm wide and 3 mm thick G.I. strips properly galvanized.
- II) Pulling of L.I. Cable (5 Pairs/10 pairs/20 pairs/50 pairs) through 20/32 mm dia G. I. Pipe of approximately 7 to 10 ft. and terminating the cable pairs in DP box and fixing of DP box on the wall with the help of suitable rawl plugs/wooden gitti and screws.

5.1.10 Termination of Cables in MDF and Pillars:

The U.G. Cables are terminated on tag blocks on line side of the MDF. The MDF consists of iron frame work and line side tag blocks are fitted on verticals. In the department, depending upon the height of the MDF room, MDFs of different sizes are erected. For simplicity and uniformity, a standard numbering scheme of verticals, tag blocks and tag numbers in the tag block is followed.

While terminating the cables in MDFs and Pillars, the correspondence of pairs shall be maintained from the point of view of counting of pairs and maintenance of the cables. In

case of armoured cables, the armour of the cable shall be connected to the C.T box mounting frame in the pillar and to the verticals of MDF, which are earthed.

The work of "termination on MDF and pillars" includes:

- I. Fixing of tag blocks on MDF vertical/CT boxes in Pillars.
- II. Drawing the cable in to the pillar and removing the cable sheath for required length.
- III. Providing earth continuity with the armour of the cable(s).
- IV. Cleaning the insulated conductor and covering the formed bunches with PVC sleeve/tape.
- V. Termination of cable pairs in Tag blocks/CT boxes.
- VI. Sign writing with white enamel paint of reputed brand on inner panel of the pillar shall be done indicating the termination details. On MDF, the written labels shall be put in place provided for it indicating the termination details. The details of sign writing shall be given by the Engineer-in-charge.
- VII. The termination of cables should be done using standard tools.

5.1.11 Jointing of cables:

The quality of jointing work is of immense importance and therefore, the jointing work should be done experienced jointers using standard tools and accessories. The work of cable jointing involves jointing of pairs by twisting. The quality of joint is vital for overall electrical characteristics and quality of transmission of the subscriber loop and therefore, the same has to be done meticulously. The items of work involved in jointing are as under:

- I. Digging the Pit for the Joint.
- II. Preparation of cable ends for jointing.
- III. Jointing of cable conductors by twisting or by machine jointing using modular connectors.
- IV. Closing the joint and Flooding of the joint (Flooding of Joints shall be mandatory).
- V. Providing protection to the joint with half round RCC Pipe/ Briks
- VI. Back filling and compacting.
- VII. Providing joint indicator and noting distances from three permanent points for future reference to locate the joints.

The Bidder shall make hundred percent pairs available from end to end. To ensure the availability of 100% pairs end to end it is a good practice not to close the joints until all the pairs are tested from MDF to pillar for primary cable work and from pillar to DP for distribution cable work. In case of some pairs missing, the defects should be rectified at this stage itself, as the joints are still kept open. Once, all the pairs are available, joint shall be closed properly using jelly and other accessories as per instructions. Proper and adequate filling of jelly in the joints is of importance as any water ingress and trapped in the cavities will result into low insulation fault at later date.

5.1.12 End-to-End Testing:

The cables are to be tested for continuity of pairs and electrical and transmission characteristics of the cable pairs, between MDF and pillar in case of primary cables and pillar and DPs in case of distribution cables separately. Broadly the following Parameters are tested

- I. Insulation
- II. Cross Insulation

- III. Continuity
- IV. Loop resistance
- V. Transmission loss
- VI. Cross talk level.

5.1.13 Cable route and Joint Indicators:

Cable route and joint indicators are to be provided to indicate the cable route and location joints. The route and joint indicators are to be used for cables laid in rural areas as availability of land marks over wide expanse of lands is scanty. The route indicators are to be placed at every 200 mts. and at every place where the cable changes direction. Joint indicators are to be provided at all joints. For the sake of uniformity and from viewpoint of identification of cable at later date for maintenance, the route / joint indicators shall be provided in the alignment of the trench. The route/Joint indicators shall be painted with Primer before painting with oil paint. The route indicators shall be painted with yellow paint and joint indicators shall be painted with red paint.

5.1.14 Documentation:

The documentation, consisting of route diagrams, depicting joint locations, termination details of cables on MDF, pillars and D.Ps., is of immense help at the time of maintenance or undertaking any re-arrangement work. The documentation shall be prepared primary cable wise for one or more than one primary cables with all its pillars shown and for all its pillars the distribution cables shown pillar wise, for each work order. Vender will have to undertake preparation of route diagram depicting alignment of cables on roadsides on a geographical map. Though it is desirable to prep are these diagrams on geographical maps to the scale but in case geographical maps are not available, the maps should be constructed to a reasonable accuracy by taking details from the local bodies of the area. On this diagram, besides showing alignment of the cable, the topographical details of the road, location of pillars and landmarks along side should also be shown to locate the cable(s) easily as and when required.

5.2 FOR LAN WORKS

The Cables / Components / Accessories to be used in the project must be of any brand specified below, however bidder has to supply the brands quoted in their price bid only during the contract period:

- **For OFC:** Finolex, HFCL, Aksh optifibre, Polycab, Apar, Paramount, Delton, RPG, Birla Ericson, Sterlite, Schneider, Molex, D-Link, TE/Netconnect, Plexonics, and RandM.
- **For the CAT-6 cables:** Schneider, Molex, Finolex, D-Link, TE/Netconnect, Havells, Sterlite, Legrand, Plexonics, and RandM
- **For the Passive Networking Components:** Systemex, AMP, Molex, D-Link, TE/Netconnect, Schneider, Plexonics, Legrand, and RandM
- **For the Active Networking Components:** Cisco, Juniper, HP, Dell, Allied Telesis, Extreme Networks, Moxa, Fortinet, DigiLink, D-Link, Linksys, Digisol, Netgear, and Plexonics
- **For HDPE pipe:** ISI approved HDPE pipe. The pipes shall be supplied with ISI mark on each pipe. (The pipe offered shall bear ISI marking with Licence number. The copy of the valid

ISI license issued by Bureau of Indian Standard to the manufacturer for the offered pipe shall be attached.)

- **For Casing Capping:** ISI approved Casing Capping (The copy of the valid ISI license issued by Bureau of Indian Standard to the manufacturer for the offered Casing Capping shall be attached).
- **For Raceway;** ISI approved Raceway (The copy of the valid ISI license issued by Bureau of Indian Standard to the manufacturer for the offered Casing Capping shall be attached).
- **For Flexible PVC Pipe:** ISI approved Flexible PVC pipe. The pipes shall be supplied with ISI mark on each pipe. (The pipe offered shall bear ISI marking with Licence number. The copy of the valid ISI license issued by Bureau of Indian Standard to the manufacturer for the offered pipe shall be attached).
- **For Rigid PVC Pipe:** ISI approved Rigid PVC pipe. The pipes shall be supplied with ISI mark on each pipe. (The pipe offered shall bear ISI marking with Licence number. The copy of the valid ISI license issued by Bureau of Indian Standard to the manufacturer for the offered pipe shall be attached).
- **For Rack:** Certifications like ISO 14001:2004 and ISO 9001:2008 (All rack should be supplied with 6 socket AC power distribution unit, 4 Fan for cooling and 1U cable manager)

Bidders will have to provide test certificate (ETL/UL/TEC) for the cable/material used, to ensure the quality of the each and every lot. All IT components (OFC, CAT-6 cables, Passive Networking Components, Active Networking Components, Rack) needs to be Restriction of Hazardous Substances (RoHS) complied and bidders shall provide RoHS Compliance for the same. All work performed on this project will be installed in accordance with the current edition of the following:

- Building Industry Consulting Service International (BICSI) Telecommunications Distribution Methods Manual
- BICSI Cabling Installation Manual
- ANSI/TIA/EIA Standards
- All local codes and ordinances.

During the installation activities, records and route layout diagram must be kept of all items installed, including reference to cable pathways used, final location, identity of cables and equipment. The presentation of all of these records will provide the "As-Installed" basis for all future reference to the installation. The Optical Fiber and UTP cabling shall be installed in accordance with manufacturer's installation instructions. The installer will ensure that the manufacturer's specifications for the Optical Fiber cable and the UTP cables meet the transmission characteristics required by Cabling Standards. All installed cables, termination boxes, distribution panels and wall outlets shall be marked and numbered in accordance with Administration Standard for the Telecommunications Infrastructure. The documentation required at the completion of the installation phases shall contain all of the following information, together with any other information the installer has acquired during the installation.

- "As-Installed" documentation, showing total cabling and connections installed using floor space plans and cable record sheets. This documentation must show all cables and outlets incorporating the full numbering and marking convention supplied.

- All test results and certification information, identified by cable, connection and numbering convention, necessary for all Optical Fiber and copper cables.
- Bidder is required to update the details of Hardware installed in the Assest Master of IWDMS before completion of FAT.

5.3 LAST MILE EQUIPMENTS

5.3.1 Manageable Switch: Gigabit Ethernet Manageable Switch

A) 16 Port Gigabit Ethernet Manageable Switch:

Min. Technical Specificat ion	Minimum 16 No's of 10/100/1000 Base-Tx PoE ports (full Duplex) and 2 x 1GE Uplink port.
	All ports should have features of auto- negotiate, flow control (802.3x), port- based network access control (802.1x), port security, MAC filtering etc.
	Minimum Switching capacity of 30 Gbps or more
	MAC address table of minimum of 8k per switch
	Should be IPv4 and IPv6 ready from day one
	Should have IEEE 802.1.d STP, 802.1w RSTP ,802.1s MSTP, IEEE 802.1Q VLAN
	Features of DHCP, NTP/SNTP or equivalent, SNMPv1, v2 and v3, TELNET/ SSH, TFTP, Web/SSL
	IGMP versions 1 and 2 snooping: supports 1K multicast groups
	Should have console port for administration and management, CLI/ webbased GUI
	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP), Up to 8 groups, Up to 8 ports per group
	All necessary SFP's, interfaces, connectors, patch cords (if any) and licenses must be delivered along with the switch from day one.
	The Switch should be Rack mountable and the switch should be supplied with Indian standard AC power cord.
	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82 ping, traceroute, RADIUS/LDAP, TACACS+, syslog, DNS client

B) 24 Port Gigabit Ethernet Manageable Switch:

Min. Technical Specificat ion	Minimum 24 No's of 10/100/1000 Base-Tx PoE ports (full Duplex) and 2 x 1GE Uplink port.
	All ports should have features of auto- negotiate, flow control (802.3x), port-based network access control (802.1x), port security, MAC filtering etc.
	Minimum Switching capacity of 50 Gbps or more
	MAC address table of minimum of 8k per switch
	Should be IPv4 and IPv6 ready from day one
	Should have IEEE 802.1.d STP, 802.1w RSTP ,802.1s MSTP, IEEE 802.1Q VLAN,
	Features of DHCP, NTP/SNTP or equivalent, SNMPv1, v2 and v3, TELNET/ SSH, TFTP, Web/SSL
	IGMP versions 1 and 2 snooping: supports 1K multicast groups
	Should have console port for administration and management, CLI/web-based GUI
	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP), Up to 8 groups, Up to 8 ports per group
	All necessary SFP's, interfaces, connectors, patch cords (if any) and licenses must be

	delivered along with the switch from day one.
	The Switch should be Rack mountable and the switch should be supplied with Indian standard AC power cord.
	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82 ping, traceroute, RADIUS/LDAP, TACACS+, syslog, DNS client

C) 48 Port Gigabit Ethernet Manageable Switch:

Min. Technical Specification	Minimum 48 No's of 10/100/1000 Base-Tx PoE ports (full Duplex) and 2 x 1GE Uplink port.
	All ports should have features of auto- negotiate, flow control (802.3x), port-based network access control (802.1x), port security, MAC filtering etc.
	Minimum Switching capacity of 100 Gbps or more
	MAC address table of minimum of 8k per switch
	Should be IPv4 and IPv6 ready from day one
	Should have IEEE 802.1.d STP, 802.1w RSTP ,802.1s MSTP, IEEE 802.1Q VLAN
	Features of DHCP, NTP/SNTP or equivalent, SNMPv1, v2 and v3, TELNET/ SSH, TFTP, Web/SSL
	IGMP versions 1 and 2 snooping: supports 1K multicast groups
	Should have console port for administration and management, CLI/ web-based GUI
	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP), Up to 8 groups, Up to 8 ports per group
	All necessary SFP's, interfaces, connectors, patch cords (if any) and licenses must be delivered along with the switch from day one.
	The Switch should be Rack mountable and the switch should be supplied with Indian standard AC power cord.
	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82 ping, traceroute, RADIUS/LDAP, TACACS+, syslog, DNS client

5.3.2 Transceiver/ Media Converter

- (a) MiniGBIC Transceiver Single Mode type for Manageable switch:** Small Form Factor Pluggable module — Mini GBIC 100 FX or 1000 based LX module to support 100FX or Gigabit speeds over 9/125 Single mode Fiber up to a distance of 10 kms
- (b) MiniGBIC Transceiver Multi Mode type for Manageable switch:** Small Form Factor Pluggable module — Mini GBIC 100FX or 1000 based SX module to support 100FX or Gigabit speeds over 62.5/125 Multi mode Fiber up to a distance of 220 mts for 1000 based SX and 2kms for 100FX
- (c) For Multi-Mode Fiber (10/ 100/1000 Mbps) for 1 Port**
 - One RJ-45 10/ 100/1000 BASE-TX port ST or SC 100 BASE-FX fiber port
 - Ethernet Media Converters with no increasing hop count in network
 - Data Transfer rate – 10/100/1000 Auto Mbps Full Duplex
 - Fiber Cable: 62.5/125 micron
 - Cable Length:2 Km or above
 - UTP Cable Type: Category 6
 - Indicators: Power Indication, FX/RX Link Indication, UTP/RX Link Indication, Full/Half Duplex Indication

- Compatibility: Standards IEEE 802.3 10Base-T, 802.3u 100/1000 Base-TX and 1000 Base-FX Protocol CSMA / CD
- Connection Specification: One RJ-45, ST or SC Option, as required

(d) For Single-mode Fiber (10 / 100/1000 Mbps) for 1 port

- One RJ-45 10 / 100/1000 BASE-TX port ST or SC 100 BASE-FX fiber port
- Ethernet Media Converters with no increasing hop count in network
- Data Transfer rate – 10/100/1000 Auto Mbps Full Duplex
- Fiber Cable :9/125 micron
- Cable Length :2 Km or above
- UTP Cable Type: Category 6
- Indicators: Power Indication, FX/RX Link Indication, UTP/RX Link Indication, Full/Half Duplex Indication
- Compatibility: Standards IEEE 802.3 10Base-T, 802.3u 100/1000 Base-TX and 1000 Base-FX Protocol CSMA/ CD
- Connection Specification: One RJ-45, ST or SC Option, as required

5.334 Voltage Stabilizer

S/N	Parameter	Minimum Specification
1	Device capacity	400VA
2	Voltage Correction	Automatic, IC Controlled
3	Input Voltage Range	130 V to 280 V
4	Frequency Range	50 Hz +/- 5 %
5	Output Voltage Range	200 V to 230 V, +/-5 %
6	Efficiency	> 95%
7	Protection/Cut off	Over Voltage and over Current Protection, Thermal and Electronic Overload
8	Device Construction	Compact and modular construction for easy handling and servicing
9	Power Outlets	4 Nos. 5 Amp Indian Standard Power Outlets
10	Operating Temperature	0-55 ° C. The bidder has to take into consideration of the internal temperature adjustment of the junction box

5.3.4 Surge Protector

S/N	Parameter	Minimum Specification
1	Clamping Voltage	240 V
2	Response time	<10 ns
3	Energy Dissipation	Min 500 joules
4	Max voltage Spike protection	Up to 400 Volts
5	Max current Spike Protection	5000 Amps
6	Cable	Heavy duty Cable of standard Length
7	Power Outlet	Min. 4 Nos. 5 Amp Indian Standard Power Outlets
8	Operating Temperature	0-55 ° C. The bidder has to take into consideration of the internal temperature adjustment of the junction box

Section – 6

TECHNICAL BID FORMAT:

Note:

The bidder has to upload/attach/submit a file as per below format along with relevant brochures mentioning the item quoted, its make and model and Deviation/ Remarks (if any) as per specifications mentioned in Section 5.

S/N	Item Description	Unit	Make and Model	Matched/ Not Matched	Deviation/ Remarks If any	Brochures/ Supporting Document Attached (Yes/No)
1						
2						
3						
4						
5						

Important Note: Immediate temporary Replacement of faulty equipment/s need to be provided to end-users during the period of repair without any additional cost to Govt. of Gujarat. Bidder is required to maintain sufficient spare inventory for the above purpose.

Section – 7: FINANCIAL BID FORMAT

(Amount in Rs. and without tax)

S/ N	Item Description	UoM	Quantities used in Current Rate Contract	Current RC Unit Price
A	B	C	D	E
A	OFC Cabeling (Including Civil work and Accessories)			
1	<p><u>Supply of single mode armoured OFC cable (UA - Loose Tube Multi tube)</u> (Unit price should Inclusive of all the required line items like Fiber Cost, Labour charges, digging/laying, HDP pipe, RCC half-round pipe, Route-marker/Indicator (Iron Made with Reflective Painting with Min. height of 1ft) and any other item, if any as per the Specificationthis RFP)</p>			
	6 Core	Mtr.	70,000	300
	12 Core	Mtr.	60,000	310
	24 Core	Mtr.	9,000	320
	48 Core	Mtr.	3,500	350
2	6 F SM OFC TERMINATION (Single END) Including Rack mount/Wall mount LIU-/ PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (3 Nos.)/With proper tagging and Identification of OFC	No	600	970
3	12 F SM OFC TERMINATION (Single END) Including Rack mount/Wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (6 Nos.) / With proper tagging and Identification of OFC	No	500	1940
4	24 F SM OFC TERMINATION (Single END) Including Rack mount/Wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (12 Nos.) / With proper tagging and Identification of OFC	No.	125	17225
5	48 F SM OFC TERMINATION (Single END) Including rack mount/wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (24 Nos.) / With proper tagging and Identification of OFC	No.	50	35000
6	<p><u>Supply of multi mode armoured OFC Cable (UA - Loose Tube Multi tube)</u> (Unit price should Inclusive of all the required line items like Fiber Cost, Labour charges, digging/laying, HDP pipe, RCC half-round pipe, Route-marker/Indicator (Iron Made with Reflective Painting with Min. height of 1ft) and any other item, if any as per the Section-5 (Specification) of this RFP)</p>			
	6 Core	Mtr.	6,000	300
	12 Core	Mtr.	8,000	310
	24 Core	Mtr.	3500	320
	48 Core	Mtr	200	350
7	6 F MM OFC TERMINATION (Single END) Including rack mount/wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (3 Nos.) / With proper tagging and Identification of OFC	Nos	250	970
8	12 F MM OFC TERMINATION (Single END) Including rack mount/wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (6 Nos.) / With proper tagging and Identification of OFC	Nos	100	2910
9	24 F MM OFC TERMINATION (Single END) Including rack mount/wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (12 Nos.) / With proper tagging and Identification of OFC	Nos.	100	7065

10	48 F MM OFC TERMINATION (Single END) Including rack mount/wall mount LIU - / PIGTAILS-LC Type / 2 MTR Duplex Patch Cord FC/ST/SC to SC/LC/ST/FC (24 Nos.) / With proper tagging and Identification of OFC	Nos.	10	15000
11	Fiber to Fiber splicing and testing inclusive of all	Nos.	2000	194
	Supply and Installation of Fiber Patch Cord FC/ST/SC to SC/LC/ST/FC Patch cord for Multimode Fiber Duplex			
	OFC terminating blocks/ Joint Enclosure/LIU (Supply, Installation and termination			
	Small Form Factor Pluggable module – Mini GBIC 1000 based LX module to support 100FX or Gigabit speeds over 9/125 Single mode Fiber up to a distance of 10kms as per the specification mentioned in section -5			
	Supply and Termination of Single Mode Pig tails. (SC Type)			
12	Horizontal Boring for Road Crossing for laying OFC as per Guide lines mentioned in section 5. (Digging at 1.65 Mtrs.)	Mtr.	800	485
13	Laying of Optical fiber cable in HDPE pipe duly fixed on Wall including testing.	Mtr	2000	20
14	Supply and Termination of Single Mode Pigtails (LC/SC Type) Inclusive of all (Materail, Labour etc..)	Nos	200	405
15	Supply and Termination of Multi Mode Pigtails (LC/SC Type) Inclusive of all (Material, Labour etc...)	Nos	200	405
16	Fiber to Fiber splicing and testing including all accessories, manpower etc	Nos.	2000	145
17	Supply and Installation of Fiber Patch Cord FC/ST/SC to SC/LC/ST/FC Patch cord for Multimode Fiber Duplex	Per 3 Mtr.	100	545
18	Supply and Installation of Fiber Patch Cord FC/ST/SC to SC/LC/ST/FC Patch cord for Single Mode Fiber Duplex	Per 3 Mtr.	100	545
19	Supply and Installation of Fiber Patch Cord FC/ST/SC to SC/LC/ST/FC Patch cord for Multimode Fiber Duplex	Per 5 Mtr.	100	905
20	Supply and Installation of Fiber Patch Cord FC/ST/SC to SC/LC/ST/FC Patch cord for Single Mode Fiber Duplex	Per 5 Mtr.	100	905
B	LAST MILE EQUIPMENTS			
1	Transceiver/media converter			
1.1	Small Form Factor Pluggable (SFP) module –Single mode Fiber up to a distance of 10kms as per the specification mentioned in section -5	Nos	750	2163
1.2	Small Form Factor Pluggable (SFP) module –Multi mode Fiber up to a distance of 2 kms for 100FX and 220 mtr for 1000based SX as per the specification mentioned in section -5	Nos	150	2163
1.3	RJ-45 port (10/100 Base TX) 10/100 Mbps Media Converter 100 BaseFx fiber port for multi mode Fiber, as per the specification mentioned in section -5	Nos	200	1260
1.4	RJ-45 port (10/100 Base TX) 100 BaseFX fiber port for single mode Fiber, as per the specification mentioned in section -5	Nos	1500	1530
2	Network Switched			
2.1	16 Port 10/100/1000 Mbps POE Switch (as per Specifications mentioned in section 5)	Nos	500	23000
2.2	24 Port 10/100/1000 Mbps POE Switch (as per Specifications mentioned in section 5)	Nos	1500	27000

2.3	48 Port 10/100/1000 Mbps POE Switch (as per Specifications mentioned in section 5)	Nos	300	54000
C REPAIRING WORK				
1	Replacement of faulty power adaptor for transceivers	Unit	100	235
2	Removal of old cabling works including buy-back of material retrieved	Mtr	2000	20
3	I/o Box for CAT-6 Cable	Nos	2000	175
4	Cashing Patti-32MM	Mtr	2000	33
5	Cashing Patti-50MM	Mtr	2000	55
6	Restructure of Cabling Including Removal and refixation/installation	Mtr	1000	29
7	OFC terminating blocks rack mounted/ wall mounted LIU (Supply, Installation and termination)	Nos.	200	3150
D STRUCTURED CABLING and ACCESSORIES				
1	Structured CAT 6 LAN cabling work (including Supply, installation and Termination of CAT6 cables, PVC flexible Pipes and accessories, RJ45 termination at work station along with I/O boxes, Face Plates, Casing and Capping, conduits, RJ-45/RJ-11 Connector and configuring node in network)	Per User End point	20,000	2000
2 Patch Panel (Supply, Installation and Termination) CAT6				
2.1	24 Port	Nos	1000	2500
2.2	12 Port	Nos	200	2200
3 RACKS (Supply, Installation and Termination) (Certifications like ISO 14001: 2004 and ISO 9001: 2008 (All rack should be supplied with 6 socket AC power distribution unit, 4 Fan for cooling and 1U cable manager)				
3.1	19" 6U Wall Mount / floor mountable MS Rack (Supply, Installation and Termination with 650mm depth)	Nos	500	3600
3.2	19" 12U Wall Mount / floor mountable MS Rack (Supply, Installation and Termination with 650mm depth)	Nos	250	6340
3.3	19" 19U floor standing MS Rack (Supply, Installation and Termination with 650mm depth)	Nos	20	20000
4 Supply of CAT-6 cable Patch Cord with RJ-45 at both end				
4.1	1 Mtr each	Nos	6000	145
4.2	2 Mtr each	Nos	8000	160
4.3	3 Mtr each	Nos	1000	170
5 GENERAL ACCESSORIES				
5.1	Power Strip with 6 plug Sockets, switches, Light Indicators, fuse protection and Spike Suppressor (Reputed Make)	Nos	1000	325
5.2	GI Pipe-4" dia	Mtr	10000	550
5.3	RJ-45 connector	Nos	5000	18
5.5	Voltage Stabilizer	Nos	1000	1500
5.6	Surge Protector	Nos	1000	800
Uniform % Discount/Premium rate offered for all line item's				
Applicable G.S.T. in (%)				

Important Note:

- Bidder has to offer uniform Discount/Premium rate i.e. same rate of discount/premium for all the line items.

- L1 will be the lowest cost to the TENDERER i.e. bidder with Highest Discounting rate of all line items without tax in the Section-I of the financial bid and then may be called for further negotiations.
- The discount being offered should be indicated with a “-“(minus) sign, similarly the Premium being charged should be indicated with a “+” (plus) sign, followed by the percentage ‘Percentage’ of discount / premium being offered.
- The quantity mentioned above for all line items is notional for evaluation purpose only. However, actual order quantity may vary during the contract tenure depending upon the actual requirement of the Government of Gujarat.
- The rate contract is purely for arriving at the unit rates for above line items and it does not guarantee any purchase order.
- All the network switches mentioned in above table should be discovered in the Network Management System (NMS) of DST, GoG at Gujarat State Data Centre, Gandhinagar. If in any case switch will not discover from NMS then only 60 Percentage payment of the total approved bill value will be released initially and remaining 40 Percentage payment will be released only after discovery of switch through NMS.
- Non-acceptance of the above condition(s) or Conditional bid shall be rejected.

Section - 8
PERFORMANCE BANK GUARANTEE
(To be stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No.

Date:

To
Government of Gujarat,
Department of Science and Technology,
New Sachivalaya,
Gandhinagar.
(Gujarat)

Dear Sir,

1. WHEREAS..... (Name of Bidder) hereinafter called "the Bidder" has undertaken, in pursuance of Agreement dated, (hereinafter referred to as "the Agreement for **Rate Contract for LAN/OFC cabling work including Supply, Installation and Commissioning of Last Miles Equipments on TurnKey basis for Government Offices in the State of Gujarat AND** WHEREAS it has been stipulated in the said Agreement that the Bidder shall furnish a Bank Guarantee ("the Guarantee") from a scheduled bank for the sum specified therein as security for implementing PROJECT.

2. WHEREAS we _____ ("the Bank", which expression shall be deemed to include its successors and permitted assigns) have agreed to give the Government of Gujarat ("GoG") the Guarantee:

THEREFORE the Bank hereby agrees and affirms as follows:

The Bank hereby irrevocably and unconditionally guarantees the payment of all sums due and payable by the Bidder to GoG under the terms of their Agreement dated _____. Provided, however, that the maximum liability of the Bank towards GoG under this Guarantee shall not, under any circumstances, exceed _____ in aggregate.

3. In pursuance of this Guarantee, the Bank shall, immediately upon the receipt of a written notice from GoG in that behalf and without delay/demur or set off, pay to GoG any and all sums demanded by GoG under the said demand notice, subject to the maximum limits specified in Clause 1 above. A notice from GoG to the Bank shall be sent by Registered Post (Acknowledgement Due) at the following address:

Attention Mr. _____.

4. This Guarantee shall come into effect immediately upon execution and shall remain in force for a period of months from the date of its execution. The Bank shall extend the Guarantee for a further period which may mutually be decided by the bidder and GoG. The liability of the Bank

under the terms of this Guarantee shall not, in any manner whatsoever, be modified, discharged, or otherwise affected by:

- Any change or amendment to the terms and conditions of the Contract or the execution of any further Agreements.
 - Any breach or non-compliance by the Bidder with any of the terms and conditions of any Agreements/credit arrangement, present or future, between Bidder and the Bank.
5. The BANK also agrees that GoG 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 GoG may have in relation to the Bidder's liabilities.
 6. The BANK shall not be released of its obligations under these presents by reason of any act of omission or commission on the part of GoG or any other indulgence shown by GoG or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the BANK.
 7. This Guarantee shall be governed by the laws of India and the courts of Ahmedabad shall have jurisdiction in the adjudication of any dispute which may arise hereunder.

Dated this the Day of

Witness

(Signature)

(Signature)

(Name)

(Name)

Bank Rubber Stamp

(Name)

(Official Address)

Designation with Bank Stamp

Plus Attorney as per Power of Attorney No.

Dated:

Section - 9

ANNEXURE - I

Bid Processing Fees and Earnest Money Deposit Details

Sr. No.	Item	Amount (In Rs.)	Name of the Bank and Branch	Demand Draft No.
1	Bid Processing Fees			
2	Earnest Money Deposit (E.M.D.)			

ANNEXURE - II

Form No. E1 Experience in supply, installation commissioning and maintenance of the similar Systems

Name of the Bidder:

Sr.No.	Name of Organization	Address of the installation	Start date of the project	Completion Date of the Project	Scope of the work. Also specify the system installed	Specify No. of Active and Passive Components	Value of the project in Rupees

Note: Please attach purchase order/ contract agreement and completion certificate for each of project details mentioned

Form no. E2 Experience in Operation and Maintenance

Sr. No.	Name of the Customer	Address of the Installation	Start Date of Project	Completion Date of the Project	Scope of Work	Value of the project in Rupees
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Note:
1. Attach the necessary supporting proof/document for above details.
2. Please mention only those projects which meet the eligibility criteria.

Form no. E3

Authorization Letters

Item	Make and Model	Name of OEM	Authorization letter attached? (Yes/No)

Form no. E4

Manpower Details

Sr. No.	Name	Date of Joining	P.F. No./ ESIC No.	Education Qualification	Experience Details with Project work upon
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Note: attach the necessary supporting proof/document for above details.

Form no. E5

Office in GUJARAT

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached
1				
2				

Note: You may mention more than one office (if applicable) by adding multiple rows which may be added by "NUMBER OF ROWS TO ADD".

Form no. E6

Service Centers Detail

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document attached
1				
2				
3				

Note: You have to mention minimum 3 authorized service centers as per eligibility criterion. If you like to add more service centers (if applicable) by adding multiple form which may be added by "NUMBER OF ROWS TO ADD".

Form No. E7 Financial Strength of the Applicant

Financial Year	Turn Over in Lakhs of Rupees	Audited Accounts submitted? (Yes/No)
2015-2016		
2016-2017		
2017-2018		

Note: Please fill this form and attach the audited Annual Accounts for the last three financial years.

Form no. E8 ISO 9001:2008 and 14001:2004 certification for Manufacturing

Sr. No.	Item	Make and Model	Name of OEM	ISO certification valid up to	ISO certification attached? (Yes/No)
1					
2					
3					
4					
5					
6					
7					

Form no. E10 Check list for FAT (Final Acceptance Test)

Sr. No.	Item	Remarks
1	Device Should be configured as per GOG instruction.	
2	Numbering / tagging	
3	Site Drawing	
4	Network Layout	
5	Site Survey Report	
6	Bill of Materials details	
7	Customer Site completion report.	
8	Cable Route path	

Annexure A
Format of Earnest Money Deposit in the form of Bank Guarantee

Ref:

Bank Guarantee No.

Date:

To,

DGM (Technical)

Gujarat Informatics Limited

Block -2, 2nd Floor, Karmyogi Bhavan,

Sector – 10A, Gandhinagar - 382017

Gujarat, India

Whereas ----- (here in after called "the Bidder") has submitted its bid dated ----- in response to the RFP no: _____ for Rate Contract for cabling work and Local Area Network (including internal office LAN) on TurnKey basis and Supply, Installation and Commissioning of Last Miles Equipments for Government Offices in the State of Gujarat on behalf of Department of Science and Technology, Government of Gujarat KNOW ALL MEN by these presents that WE ----- having our registered office at ----- (hereinafter called "the Bank") are bound unto the _____, Gujarat Informatics Limited in the sum of ----- for which payment well and truly to be made to Gujarat Informatics Limited , the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this -----day of -----2019.

THE CONDITIONS of this obligation are:

1. The E.M.D. may be forfeited:

- a. if a Bidder withdraws its bid during the period of bid validity
- b. Does not accept the correction of errors made in the tender document;
- c. In case of a successful Bidder, if the Bidder fails:
 - (i) To sign the Contract as mentioned above within the time limit stipulated by purchaser
or
 - (ii) To furnish performance bank guarantee as mentioned above or
 - (iii) If the bidder is found to be involved in fraudulent practices.
 - (iv) If the bidder fails to submit the copy of purchase order and acceptance thereof.

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

This guarantee will remain valid up to 27 months from the last date of bid submission. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that if this guarantee is extended for a period as mutually

agreed between bidder and owner/purchaser, the guarantee shall be valid for a period so extended provided that a written request for such extension is received before the expiry of validity of guarantee.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER 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 OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER 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 SELLER and not withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Dated at _____ on this _____ day of _____ 2019.

Signed and delivered by

For and on Behalf of

Name of the Bank and Branch and
Its official Address

Approved Bank: All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative and Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2018/18/DMO dated 16.04.2018 along with its earlier referenced GRs issued by Finance Department or further instruction issued by Finance department time to time.