

**Corrigendum-III Notice**

**Gujarat Fibre Grid Network Limited (GFGNL)**

A Government of Gujarat Company

Block No: 1, 8th Floor, Udyog Bhavan, Sector-11, Gandhinagar: 382010

**Date: 19/April/2018**

With reference to the RFP No: GFGNL/DST/BharatNet – PIA/2018/30 Request for Proposal (RFP) for Selection of Project Implementing Agency for BharatNet Phase-II project in the State of Gujarat under Gujarat Fibre Grid Network Limited (Package A) dated 23rd March 2018 and GFGNL/DST/BharatNet – PIA/2018/31 Request for Proposal (RFP) for Selection of Project Implementing Agency for BharatNet Phase-II project in the State of Gujarat under Gujarat Fibre Grid Network Limited (Package B) dated 23rd March, 2018, and subsequent Corrigendum and Response to Pre Bid Queries, we hereby wish to inform that the corrigendum document named “**Corrigendum-III.pdf**”, is attached hereby, and has been uploaded on the website, <https://dst.gujarat.gov.in/tender.htm> and <https://www.gfgnl.nprocure.com> on 19th April 2018. The same can be downloaded from the website.

MD, GFGNL  
19th April, 2018

## Corrigendum -III

Sno.	Section Name	Clause No.	Existing RFP Clause- (including Corrigendum and Response to Pre Bid queries II dated 5 <sup>th</sup> April, 2018)	Revised Clause/Clarification
1	Evaluation of Eligibility Criteria	2.28 (Page No. – 39)	<p><b>Note 1:</b> All the tender items e.g. GPON OLT, ONT, OFC and Rack Mounted Splitters should have valid Type Approval Certificate (TAC) from Telecom Engineering Centre (TEC), New Delhi or Technical Specification Evaluation Certificate (TSEC) from Quality Assurance Circle, BSNL, Bengaluru, against the respective technical specifications of this RFP. In case any of the quoted models does not have TAC/ TSEC then it should be applied for TSEC to Quality Assurance Circle, BSNL, Bengaluru or to TEC, New Delhi for the model against the technical specifications, at least one day before the bid submission date. The registration number allotted for the TSEC purpose by Quality Assurance Circle, BSNL, Bengaluru or for TAC purpose by TEC, New Delhi shall be submitted along with the bid. However, only type approved/TSEC approved products as per above specifications shall be accepted which shall have to be obtained before supply.</p> <p>Exception - only in relation to OLT and ONT: Technical eligibility of OEM for OLT and ONT: If any OEM has supplied GPON technology based OLT/ ONT to Railtel/ BBNL/ BSNL any time in last 3 years with following configuration, subject to submission of TSEC certificate or acceptance letter after inspection by BSNL/ BBNL/ Railtel for such</p>	<p><b>Note 1:</b> All the tender items e.g. GPON OLT, ONT, OFC and Rack Mounted Splitters should have valid Type Approval Certificate (TAC) from Telecom Engineering Centre (TEC), New Delhi or Technical Specification Evaluation Certificate (TSEC) from Quality Assurance Circle, BSNL, Bengaluru, against the respective technical specifications of this RFP. In case any of the quoted models does not have TAC/ TSEC then it should be applied for TSEC to Quality Assurance Circle, BSNL, Bengaluru or to TEC, New Delhi for the model against the technical specifications, at least one day before the bid submission date. The registration number allotted for the TSEC purpose by Quality Assurance Circle, BSNL, Bengaluru or for TAC purpose by TEC, New Delhi shall be submitted along with the bid. However, only type approved/TSEC approved products as per above specifications shall be accepted which shall have to be obtained before supply.</p> <p>Exception - only in relation to OLT and ONT: Technical eligibility of OEM for OLT and ONT: If any OEM has supplied GPON technology based OLT/ ONT to Railtel/ BBNL/ BSNL any time in last 3 years in BharatNet/NOFN Phase – 1 Project, subject to submission of</p>

			<p>OLT/ ONT the bidder will be eligible for applying in this bid against this qualifying criteria.</p> <p><b>OLT:</b> 8 uplink (4*10G and 4*1G) and 8 downlink (PON ports)  <b>ONT:</b> 1 PON port for uplink and 4*1G (downlink) ports</p> <p>However, post award of work order, the OLT/ ONT to be supplied will be as per the specifications mentioned in the RFP and supply will happen after TSEC approval for the specific product this is supposed to be supplied.</p>	<p>TSEC certificate or acceptance letter after inspection by BSNL/ BBNL/ Railtel for such OLT/ ONT the bidder will be eligible for applying in this bid against this qualifying criteria.</p> <p>However, post award of work order, the OLT/ ONT to be supplied will be as per the specifications mentioned in the RFP and supply will happen after TSEC approval for the specific product this is supposed to be supplied.</p>
2	Network Design Criteria - Gram Panchayat (GP) Locations	4.3.1.2 Point No. – 1 (Page No. 113)	<p>Each ONT will have 1 PON port and minimum 4 Ethernet ports (1000BaseT).</p> <p>Additionally, each ONT location will have L2 manageable distribution switch with 1 (1000BaseT uplink port) and 16 downlink port (1000BaseT) (PMA compliant) having remote management and port blocking functionality.</p>	<p><b>Revised Clause:</b>  Each ONT will have 1 PON port and minimum 4 Ethernet ports (1000BaseT).</p> <p>Additionally, each ONT location will have L2 manageable distribution switch with 1 (1000BaseT uplink port) and minimum 16 downlink ports (1000BaseT) (PMA compliant) having remote management and port blocking functionality with operating temperature range of 0 - 55 deg C.</p>

## Answers to Pre-bid Queries

S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
1	Evaluation of Eligibility Criteria	2.28 Page No 39	<p>Note 1: All the tender items e.g.GPON OLT, ONT, OFC and Rack Mounted Splitters should have valid Type Approval Certificate (TAC) from Telecom Engineering Centre (TEC), New Delhi or Technical Specification Evaluation Certificate (TSEC) from Quality Assurance Circle, BSNL, Bengaluru, against the respective technical specifications of this RFP. In case any of the quoted models does not have TAC/ TSEC then it should be applied for TSEC to Quality Assurance Circle, BSNL, Bengaluru or to TEC, New Delhi for the model against the technical specifications, at least one day before the bid submission date. The registration number allotted for the TSEC purpose by Quality Assurance Circle, BSNL, Bengaluru or for TAC purpose by TEC, New Delhi shall be submitted along with the bid. However, only type approved/TSEC approved products as per above specifications shall be accepted which shall have to be obtained before supply.</p> <p>Exception - only in relation to OLT and ONT: Technical eligibility of OEM for OLT and ONT: If any OEM has supplied GPON technology based OLT/ ONT to Railtel/ BBNL/ BSNL any time in last 3 years with following configuration, subject to submission of TSEC certificate or acceptance letter after inspection by BSNL/ BBNL/ Railtel for such OLT/ ONT the bidder will be eligible for applying in this bid against this qualifying criteria.</p> <p>OLT: 8 uplink (4*10G and 4*1G)) and 8 downlink (PONports)  ONT: 1 PON port for uplink and 4*1G (downlink) ports  However, post award of work order, the OLT/ ONT to be supplied will be as per the specifications mentioned in the RFP and supply will happen after TSEC approval for the specific product this is supposed to be supplied.</p>	<p>Alphion as an OEM has TSEC against <b>BBNL Tender No. BBNL/MM/2017/PIA for BharatNet Phase-II/PB &amp; BH 004 Dated 15-12 2017 &amp; TEC GR No. GR/PON-01/02 APRIL 2008.</b> The TSEC certified OLT &amp; ONT, EMS of Alphion meets the specifications of the GFGNL GPON OLT ,ONT &amp; EMS. However Alphion has not supplied the OLT &amp;ONTs to BBNL. We understand that, as Alphion has TSEC certificate against the BBNL tender and the TSEC certified OLT, ONT &amp; EMS specifications matches that of the specifications of GFGNL we are eligible to participate in GFGNL/DST/BharatNet – PIA/2018/30 GFGNL/DST/BharatNet – PIA/2018/31. Kindly confirm.</p>	NA	Refer corrigendum III.

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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
2			Penalty	To be capped at 12% of the CAPEX Value as in similar tenders of BSNL, BBNL	NA	RFP clause remains unchanged.
3			Penalty	Request to deduct penalties from last payments as done in Maharashtra	NA	RFP clause remains unchanged.
4			Penalty	LD for non completed work is very high and it should not be more than 0.5% per week or in terms of cumulative manner LD should not be more than 1% of CAPEX value instead of 4% for each milestone.	NA	RFP clause remains unchanged.
5			Performance Bank Guarantee	PBG is on the higher side and should be kept at 5% for delivery and O&M phase as in BSNL BharatNet tender.	NA	RFP clause remains unchanged.
6			Subcontracting	PSUs like ITI and TCL, sub contract the entire project on back to back basis wherein that sub contractor purchase all material and further engage several subcontractors for delivery and execution, since as per tender only one level of subcontracting is allowed, so will above mentioned engagement be allowed or not.	NA	RFP clause remains unchanged.
7			Software	As per the main tender document necessary OS licenses, Data base licenses or any other software license required shall be supplied, installed, configured and managed by PIA for the entire tenure of the project. However, as per the Corrigendum dt. 5th April, 2018 point 5, Pg.2 the support for software packages has to be on GFGNL name. With reference to the above clauses, request you to clarify in whose name the COTS ERP and Database licenses have to be sourced.	NA	In name of GFGNL.

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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
8	Corrigendum-II Notice dated 11 April 2018	Page No.4	Exception - only in relation to OLT and ONT: Technical eligibility of OEM for OLT and ONT: If any OEM has supplied GPON technology based OLT/ ONT to Railtel/ BBNL/ BSNL any time in last 3 years with following configuration, subject to submission of TSEC certificate or acceptance letter after inspection by BSNL/ BBNL/ Railtel for such OLT/ ONT the bidder will be eligible for applying in this bid against this qualifying criteria. OLT: 8 uplink (4*10G and 4*1G) and 8 downlink (PON ports) ONT: 1 PON port for uplink and 4*1G (downlink) ports	We would like to inform you that the configuration being supplied in BharatNet Phase 1 & 2 Tender are either 4*10GE OR 8*1GE for uplink ports. PON Ports are supplied with minimum 8 ports. I view of this, we request to change the clause as follows Technical eligibility of OEM for OLT and ONT: If any OEM has supplied GPON technology based OLT/ ONT to Railtel/ BBNL/ BSNL any time in last 3 years with following configuration, subject to submission of TSEC certificate or acceptance letter after inspection by BSNL/ BBNL/ Railtel for such OLT/ ONT the bidder will be eligible for applying in this bid against this qualifying criteria. "OLT: Uplink Ports (4*10G) and minimum 8 downlink (PON ports) OR :OLT:Uplink Ports (8*1GE) and minimum 8 downlink (PON ports) ONT: 1 PON port for uplink and 4*1G (downlink) ports" Kindly confirm.	NA	Refer corrigendum III.
9	Corrigendum-II Notice dated 11 April 2018	Page No.5	Revised Clause: Additionally, each ONT location will have L2 manageable distribution switch with 1 (1000BaseT uplink port) and 16 downlink port (1000BaseT) (PMA compliant) having remote management and port blocking functionality.	The standard Port Configuration of the Switches are 8 port Switch, 24 Port Switch & 48 Port Switch as the components come with these configurations. We request to confirm that two number of 8 Port Switches in cascaded fashion to furnish 16 port Switch requirement is acceptable. Please Confirm.	NA	Two numbers of 8 port switches will not be accepted. However, bidder has to supply switch with minimum 16 ports. More number of ports will be allowed.

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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
10	Corrigendum-II Notice dated 11 April 2018	Page No.5	Revised Clause: Additionally, each ONT location will have L2 manageable distribution switch with 1 (1000BaseT uplink port) and 16 downlink port (1000BaseT) (PMA compliant) having remote management and port blocking functionality.	Gram Panchayat Locations has asked for GPON ONTs with QM333 compliance which ensures that ONT should be able to withstand 55 deg C. We understand that Switches are also required to withstand 55deg C as ONT & Switches are co-located. Please Confirm.	NA	Agreed. Operating temperature range should be 0 - 55 deg C.
11	Corrigendum-II Notice dated 11 April 2018	Page 5	Revised Clause: Additionally, each ONT location will have L2 manageable distribution switch with 1 (1000BaseT uplink port) and 16 downlink port (1000BaseT) (PMA compliant) having remote management and port blocking functionality.	The standard Port Configuration of the Switches are 8 port Switch, 24 Port Switch & 48 Port Switch as the components come with these configurations. We request to confirm that two number of 8 Port Switches in cascaded fashion to furnish 16 port Switch requirement is acceptable. Please Confirm.	NA	As per Sr. No. 9 above.
12	Corrigendum-II Notice dated 11 April 2018	Page 6	Revised Clause: Configuration of ONT at GP to support minimum 1 Gbps Bandwidth. One PON port of OLT will connect maximum 2 ONTs (through 1:4 Rack Mounted splitter) and bandwidth provisioning per ONT will be flexible and configured as per requirement. Each OLT will connect to maximum 20 ONTs..	We understand that the Bandwidth requirement per Gram Panchayat has been revised to 1Gbps from 100Mbps in line to BharatNet Phase 2 guidelines. Kindly confirm.	NA	This broadly ensures that.

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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
13	RFP No: GFGNL/DST/BharatNet-PIA/2018/30	Page 113	The successful bidder will design intermediate transport layer to cause delivery of 100 mbps bandwidth (with concurrency of 1/8) per GP at ONT.	<p>The network envisaged between Block &amp; GP is 1Gbps. However the transport requirements has been limited to 100 Mbps. Each Gram Panchayat has multiple institutions (PHCs, Schools, Bank ATMs, Post offices, Police Stations/Chowkis &amp; etc). Also each GP in Gujrat generally caters to 100~500 Households. Considering each household requirement of 2~20 Mbps, the total BW requirements per GP varies from 200Mbps to 10Gbps. Also with the advent of 5G technology by 2020, the requirement per base Station would be 30 bit/s/Hz ( as per International Mobile Telecommunications IMT 2020 3GPP (ITU-T) Standard-copy attached -Refer Section 4.2). Considering 20MHz Band availability in India, the requirement for 3 sectors is <math>30(\text{Bits}/\text{Sec}/\text{Hz}) * 20(\text{MHz}) * 3 \text{ Sectors} = 1.8\text{Gbps}</math>.</p> <p>In view of the above, we strongly feel that the transport network should dedicatedly backhaul the traffic of min 1G bandwidth per GP at ONT. Hence,we request you to amend the clause as : " The successful bidder will design intermediate transport layer to cause delivery of 1 Gbps bandwidth per GP at ONT. "</p>	NA	RFP clause remains unchanged.



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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
14	3.27	Payment Schedule for GP Installations	<p>a. 80% of Capex cost (discovered cost per GP from Financial Bid Table A.1 and B.1 from its respective package)* Number of Live GP's</p> <p>b. Of aforementioned part payment (point a) 70% will be paid on bill submission once GP is Lit ON. Remaining 30% of it will be paid post TPA audit and deduction in rates (if applicable) due to noncompliance with depth to be achieved for fibre cable laying for respective soil strata type as defined in section 3.32)</p> <p>c. During O&amp;M period, payment would be made post deduction in rates (if applicable) due to noncompliance with depth to be achieved for fibre cable laying for respective soil strata type as defined in section 3.32 after Fourth Party Audit</p>	<p>We request to amend as "a. 80% of Capex cost (discovered cost per GP from Financial Bid Table A.1 and B.1 from its respective package)* Number of Live GP's</p> <p>b. Of aforementioned part payment (point a) 80% will be paid on bill submission once GP is Lit ON. Remaining 20% of it will be paid post TPA audit and deduction in rates (if applicable) due to noncompliance with depth to be achieved for fibre cable laying for respective soil strata type as defined in section 3.32)" .</p> <p>We request to add the mentioned line - "TPA should submit the FAT report within 7 working days of invoice submission of the Lit ON GP's by the PIA".</p> <p>c. During O&amp;M period, payment would be made post deduction in rates (if applicable) due to noncompliance with depth to be achieved for fibre cable laying for respective soil strata type as defined in section 3.32 after Fourth Party Audit</p>	<p>1) Mentioned change help to manage the cash flow.</p> <p>2) If the TPA submit the FAT report within 7 working days of submitted invoice of Lit ON GP's than as per the RFP page no.70 point 5 bidder has the opportunity to get 100% payment of Lit ON GP's within 30 working days of invoice raised.</p> <p>3. Till NMS installed in the NOC, department should provide the BBNL/BSNL NMS to check the status of Lit ON GP's.</p> <p>4) It is the GFNL responsibility to provide the Fiber connectivity to test the status of Lit ON GP's, if in case there is any issue in fiber connectivity than PIA claimed invoice amount should not be kept on hold and payment should be reimbursed.</p>	RFP clause remains unchanged.

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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
15			There shall be only one level of sub-contracting i.e. the sub-contractor, appointed by the PIA shall directly execute the work without further subcontracting the work	Kindly clarify - 1) PIA should be allowed to sub contract the 100% project to third party or not 2) PIA should sub contract only the services in terms of trenching, laying of fiber and supplies should not be sub contracted to third party. 3)PIA should be allowed to sub contract the entire O&M for the 7 years to third party or not 4)PIA should submit the invoice of the supplies in the department.	1) Mentioned change help to manage the cash flow. 2) If the TPA submit the FAT report within 7 working days of submitted invoice of Lit ON GP's than as per the RFP page no.70 point 5 bidder has the opportunity to get 100% payment of Lit ON GP's within 30 working days of invoice raised. 3. Till NMS installed in the NOC,department should provide the BBNL/BSNL NMS to check the status of Lit ON GP's. 4) It is the GFNL responsibility to provide the Fiber connectivity to test the status of Lit ON GP's, if in case there is any issue in fiber connectivity than PIA claimed invoice amount should not be kept on hold and payment should be reimbursed.	PIA cannot 100% sublet work to one party. Else, no changes.

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S. No.	Section No.	Clause No.	Corrigendum Description	Clarification sought	Additional Remarks	Response
16	Section-4 : Scope of Work	4.7.1.18	BATTERY: As per TEC GR NO. GR/TX/BAT-001/04/068 JUL 2016 dated 29.07.2016 (with latest amendment)	This seems to be a typo error for GR details mentioned. No such GR available on TEC website. Instead the applicable GR seems to be "TEC/GR/TX/BAT-02/03/Dec.2013". However approved OeM of Lead Acid SMF batteries are Quite limited. Hence request you to delete the mentioned TEC GR and instead define minimum battery VAH requirement for 1KVA UPS as mentioned below: Battery Capacity : minimum 1900VAH		TEC GR NO. GR/TX/BAT-001/04/068 JUL 2016 stands deleted. PIA has to plan battery capacity for 2 Hrs backup.
17	Section-4 : Scope of Work	4.4.5.7 UPS for GP Locations	Battery Replacement	Since the project period is for 7 years and normal battery life is of 2-3 years, it is requested to keep mandatory replacement of batteries (similar to the clause 4.4.5.6.25 mentioned in specifications of 20KVA UPS) at the end of 2nd year, 4th year and 6th year.		<b>New clause:</b> The successful bidder has to replace the UPS battery every 3 years for uninterrupted and smooth operations. OEM should confirm battery replacement in UPS at the end of 3rd year and 6th year respectively.