

Corrigendum dated 5th April 2018

S.No.	Section	Clause	Existing Clause	Revision/Change
4	4.3.1.2 Network Design Criteria	NOC to ONT Bandwidth Charging:	NOC to ONT Bandwidth Charging: The GFGNL will provide bandwidth of 100 Gbps (shared between the two packages or 50 Gbps each) at GFGNL NOC in Gandhinagar. The successful bidder will design intermediate transport layer to cause delivery of 100 mbps bandwidth (with concurrency of 1/8) per GP at ONT. The delivery will ride on OLT-ONT infra being built and will be on one fibre pair between NOC and each OLT. From the current laying of OFC in no case more than two fibres will be used anywhere between NOC and OLT. This bandwidth will be used for discovery and monitoring of OLT and ONT in the NMS.	Revised Clause : "The GFGNL will provide bandwidth of 100 Gbps (shared between the two packages or 50 Gbps each) at GFGNL NOC in Gandhinagar. The successful bidder will design intermediate transport layer (with auto protection as per OFC routes defined in Annexure E) to cause delivery of 100 mbps bandwidth (with concurrency of 1/8) per GP at ONT. The delivery will ride on OLT-ONT infra being built and will be on one fibre pair between NOC and each OLT. From the current laying of OFC in no case more than two fibres will be used anywhere between NOC and OLT. This bandwidth will also be used for discovery and monitoring of OLT and ONT in the NMS."
5	NA	Software /Applications	NA	PIA can supply open source or COTS licensed software packages. Points of consideration while choosing the software package are as per below: Perpetual licenses for the users/ units to be monitored as given in the RFP. The licenses should be supported – COTS (OEM

				<p>support), Open source – enterprise support. No extra license, support or any type of cost for mentioned number of licenses for entire contract period (Enterprise support must be provided for entire contract period for which cost should be considered in package / EPC cost). The procured support for software packages to be on GFGNL/GoI name. Support must be extended to migrate data to any 3rd party software which will be procured by GFGNL after completion of contract period or in the event of termination of contract.</p> <p>Total number of users and devices for the software licenses will be as below: ERP – 600 users across modules NMS – 35000 network devices GIS-NIS – 600 users and concurrency of 100 users</p>
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4.4.5.6 (Revised)Online UPS for NOC Room

Sr. No.	Parameter	Minimum Specification
1.	Output Power Capacity	20KVA
2.	Technology	True On-line High-Frequency Design UPS with Double Conversion technology, Rectifier & Inverter both to be IGBT based PWM
3.	Certifications	UPS should meet CE/BIS and ROHS standards (Compliance to be submitted)
4.	Input Voltage Range	360-460 VAC @ 100% load, Three Phase
5.	Input Freq. Range	50Hz +/- 3 (auto sensing)
6.	Input Power Factor	> =0.90 (100% Load)
7.	Input Protection	Thermal Circuit Breaker/Isolater with fuse
8.	Output Voltage	220/230/240 VAC +/- 1%
9.	Output Frequency	50Hz ± 0.5Hz
10.	Output Waveform	Pure Sinewave
11.	O/P Voltage Distortion	<3% for Linear, <6% for Non-Linear Load
12.	Output Connections	Output Connections: (1) Hard Wire 3-wire (H N + G),
13.	Efficiency (Overall)	> 85%

14.	Efficiency (Inverter)	> 90%
15.	Battery Type	SMF-VRLA (Sealed maintenance free valve regulated lead acid)
16.	Battery Backup	120min backup on Full Load(16KW)
17.	Communication	Full-Functional SNMP Card should be present; RS 232/ USB port with software for UPS status monitoring
18.	Protection	Inherent protection should be provided for Output Short-circuit and Overload, Input Fault, Cold Start, Low battery, Battery Over and Under charge, Battery Disconnect, Battery self-test feature, Over Temperature, OVCD, External Transient Voltage Surge Suppressor, etc.
19.	LCD Display	Input Voltage, Input Frequency, Output voltage, Output Current, Output Frequency, Battery Voltage, UPS Status, Load Level, Battery Level, Discharge Timer, Battery Disconnect and Fault Conditions
20.	By Pass	Manual and Automatic (Built-in) Bypass switch should be provided
21.	Environment	Noise Level – less than 60 dB at a distance of 1 meter
22.	Operating Temperature	0-45° C
23.	Relative Humidity	20-90%RH @0-40° C (Non-condensing)
24.	Miscellaneous	ECO Mode Operation with Enable/Disable function
		Cooling: Forces Air Cooling
		Emergency Power Off (EPO)
		BYPASS Mode Operation with Enable/Disable function
		Cables: With all necessary cables and plug and Battery links
		Rack: Suitable Metallic Rack for housing of SMF Batteries to be provided

25.	Battery Replacement	The successful bidder has to replace the UPS battery every 2 years for uninterrupted and smooth operations. OEM should confirm battery replacement in UPS at the end of 2nd year, 4th year and 6 th year respectively.
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4.4.5.7 (Revised)UPS for GP Locations

S/N	Parameter	Minimum Specifications
1.	Capacity	1 KVA or more Line Interactive
2.	Technology	Automatic Voltage Regulation
3.	Input Frequency Range	50 Hz +/- 5%
4.	Output Frequency Range	50 Hz +/- 5%
5.	Output Voltage	170VAC - 250VAC(Output range should be in between)
6.	Voltage Regulation	With variation against rated, the outer bounds (Output Voltage: 170 - 250 V) should not be crossed
7.	Output Waveform	Modified sine Wave
8.	Output Power Factor	0.6 or more
9.	Battery Backup	Minimum backup of 120 Minutes on full load @ 0.6 pf or better
10.	Battery Type	Lead acid Sealed Maintenance Free (SMF)
11.	General Operating Temperature	0 to 45 Degree Celsius
12.	Alarms & Indications	All necessary alarms & indications essential for performance monitoring of UPS like mains fail, low battery
13.	Bypass	Automatic and Manual Bypass Switch
14.	Protection	Fuse protection

3.32 (Revised)Penalty

4. Penalties applicable in case of deficiency in Ongoing performance and service levels during Operations & Maintenance Phase

- Revised Penalty in case of deficiency in ongoing performance and service levels penalty shall be applied as per below criteria

Proposed SLA Uptime Per Block & penalties thereof		
Sr. No.	Network Uptime	% Penalty**
1	>= 98.5%	No Penalty
2	>= 97.5% to < 98.5%	1.0%
3	>= 96.5% to < 97.5%	2.0%
4	>= 95.5% to < 96.5%	4.0%
5	>= 94.5% to < 95.5%	6.0%
6	>= 93.5% to < 94.5%	8.0 %
7	>= 92.5% to < 93.5%	10.0%
8	>= 91.5% to < 92.5%	12.0%
9	>= 91.5% to <= 90.0%	15.0%
10	<90.0%	20.0%

** of the Quarterly OPEX of respective block

4.4.5.4.1 (Additional Clause) Operator Console Table & Ergonomic Chair

S/N	Parameter	Minimum Specification
Operator Console Tables (15 Nos.)		
1.	Physical Structure	Ergonomically designed desk to ensure 24x7 desking solution with sufficient knee space (min 450mm) and foot space (min 600 mm) and minimum width of 1800 mm.
2.	Working Surface material	The Console Top / working surface should be made of minimum 25 mm thick MDF with High Pressure Laminate finish. The laminate shall be

		<p>fire retardant, Insulated, Water Proof, Scratch resistant and high hardness.</p> <p>The Table Top should be able to mount three 21 Inches Display monitors for each work station with front edge of the table top should be molded polyurethane edge(for wrist cushion)</p>
3.	Console Design	Consoles must be of modular design, facilitating future equipment retrofits and full reconfigurations without requiring any major modification to the structure or exterior elements
4.	Equipment Mounting	The workstation shall be able to house computer equipment's, Ethernet Points, Power Distribution Unit. The CPUs shall be mounted on Slide out CPU trays (mounted on Heavy duty slides) for ease in maintenance, all of these equipment's should be concealed from direct human view
5.	Frame material	Made of heavy duty Aluminum. The Extrusions shall be duly powder coated with 40+ micron over all surfaces.
6.	Monitor Arms and Rear Walls	<p>Die cast mounted Aluminum articulated arm; fixed firmly on MS Pole with powder coating mounted on its rear wall also made of aluminum Monitor and Functional holder shall guarantee optimum viewing distance. All ergonomic aspects shall be taken in to account. It shall be capable for mounting all type of LCD/LED display with Dimensions between 17" to 27" using suitable brackets/additional base plate</p> <p>For configuration of working position, it shall allow the technical staff to rotate/ tilt/ raise/the</p>

		monitors as well as fix their adjustment in a quick and easy manner
7.	Warranty/Guarantee	10 years replaceable
8.	Certifications/compliant	RoHS (UL certificate), ISO 11064 latest revision, BIFMA X5.5, Seismic zone IV compliant
Chairs (15 Nos.)		
9.	General	Ergonomic Chair with Arm Rest and castor wheels designed for 24/7 usage
10.	Backrest support	Tilt adjustable, polystyrene support frame with 100% polyester fibre
11.	Seat Support	Height adjustable, Molded wood, 10 mm. thick with polyurethane foam, density minimum 70 kg/m ³
12.	Seat Adjustment Mechanism	Self-adjustable synchronous mechanism with soft resort. Multi-locking with safe anti-return system.
13.	Armrests	Height adjustable via button, Front/back adjustable with PU pads (50 mm)
14.	Column	Class 3 built-in cartridge cylinder steel tube
15.	Base	Swivel on castor with 5 polyamide double-wheel castors (made of polyamide and fibre glass)
16.	Colour	Black
17.	Warranty	Minimum 5 replicable years

Section V: Bid Submission Format

Annexure 5.1 (Revised) Schedule of Requirements (SOR)

SOR for Package A

C	Supply - Active Infrastructure	
1	OLT	Nos.
2	ONT	Nos.
3	Electronics of State NOC	Nos.
4	State DC/NOC to ONT Bandwidth Charging- Transport Layer	Nos.
5	RFMS	Nos.
6	UPS at GPs	Nos.
7	12U Wall mount Rack	Nos.
8	42U Floor mount Rack	Nos

D	Supply - Network Operations Centre (NOC)		
1	NMS	Lumpsum	
2	ERP (with necessary software, licenses, etc.)	Lumpsum	
3	Project Management Tool	Lumpsum	
4	Webportal	Lumpsum	
5	Mobile Application	Lumpsum	
6	GIS	Lumpsum	
7	UPS with Battery bank at NOC for (Video Wall, Operator Desktop, network devices and NOC)	Lumpsum	
8	Video wall, Controllers, desktop for operators, NOC centre furniture etc.	Lumpsum	
9	Any other hardware/software required to meet the RFP requirements	Lumpsum	

Rest all tables in the section remain unchanged

SOR for Package B

C	Supply - Active Infrastructure		
1	OLT	Nos.	
2	ONT	Nos.	
3	State DC/NOC to ONT Bandwidth Charging- Transport Layer	Nos.	
4	RFMS	Nos.	
5	UPS at GPs	Nos.	
6	12U Wall mount Rack	Nos.	
7	42U Floor mount Rack	Nos.	

Rest all tables in the section remain unchanged

Annexure 5.19 – (Revised) Priced BOQ Format**Priced BoQ Format for Package A**

C	Supply - Active Infrastructure					
1	OLT	Nos.				
2	ONT	Nos.				
3	Electronics of State NOC	Nos.				
4	NOC to ONT Bandwidth Charging- Transport Layer	Nos.				
5	RFMS	Nos.				
6	UPS at GPs	Nos.				
7	12U Wall mount Rack	Nos.				
8	42U Floor mount Rack	Nos.				

D	Supply - Network Operations Centre (NOC)					
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1	NMS	Lumpsum				
2	ERP (with necessary software, licenses, etc.)	Lumpsum				
3	Project Management Tool	Lumpsum				
4	Webportal	Lumpsum				
5	Mobile Application					
6	GIS					
7	UPS with Battery bank at NOC for (Video Wall, Operator Desktop, network devices and NOC)	Lumpsum				
8	Video wall, Controllers, desktop for operators, NOC Centre furniture etc.	Lumpsum				
9	Any other hardware/software required to meet the RFP requirements	Lumpsum				

Rest all tables in the section remain unchanged

Priced BoQ Format for Package B

C	Supply - Active Infrastructure					
1	OLT	Nos.				
2	ONT	Nos.				
3	NOC to ONT Bandwidth Charging- Transport Layer	Nos.				
4	RFMS	Nos.				

5	UPS at GPs	Nos.				
6	12U Wall mount Rack	Nos.				
7	42U Floor mount Rack	Nos.				

Rest all tables in the section remain unchanged

Section 2.1 (Additional Clause) Procedure for Submission of Bids

Naming Convention for files

The bidders need to strictly follow the below mentioned File Nomenclature rules while uploading the documents in the bidding portal.

For documents mentioned under Eligibility Criteria, the file naming should be:
Eligibility_Criteria_[Document_Name]

For example:

- Eligibility_Criteria_Copy_of_Certification_of_Incorporation
- Eligibility_Criteria_PAN_Card
- Eligibility_Criteria_GST Registration
- Eligibility_Criteria_Financial_Statement_2015-16
- Eligibility_Criteria_Self_Declaration_PMA
- Eligibility_Criteria_Self_Declaration_Blacklisting

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

For example:

- Anx_5.1_Schedule_of_Requirements_(SOR)
- Anx_5.2_Bidder's_Profile
- Anx_5.12_MAF_[OEM Name]

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

- Anx_5.1_Schedule_of_Requirements_(SOR)_Part_1
- Anx_5.1_Schedule_of_Requirements_(SOR)_Part_2

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

5.12 (Revised) Annexure 5.12: MAF

Manufacturer’s Authorization Format (MAF) From OEM

Ref: Date:

To

.....,
.....,
.....,

Subject: Manufacturer Authorization Letter for RFP No.

Sir,

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

We <OEM Name> authorize <Bidder’s name> to quote our product for above mentioned tender as our Authorized Indian Agent.

We confirm that we have understood the delivery & installation time lines defined in the tender. We confirm that we have worked out all necessary logistics and pricing agreement with <PIA name>, and there won’t be any delay in delivery, installation and support due to any delay from our side. Our full support as per pre-purchased support contract is extended in all respects for supply, warranty and maintenance of our products. We also ensure to provide the required spares and service support as pre-

purchased for the supplied equipment for a period of 7 years from date of supply of the equipment as per tender terms. In case of any difficulties in logging complaint at bidder end, user shall have option to log complaint at our call support centre. Selection of Project Implementing Agency (PIA) for BharatNet Phase-II in Gujarat. We also undertake that in case of default in execution of this Contract by PIA, we shall provide necessary support in identifying another authorized partner with similar certifications/capabilities and extend support to the new partner in accordance with OEM's agreement with the new partner. In case PIA is unable to fulfil the obligations given under this Contract, OEM shall be responsible to replace the PIA with an alternate Indian Authorized agent to facilitate to get the requisite work done. OEM shall also ensure that the alternate Indian Authorized Agent in this case shall abide by all the terms & conditions laid down under the Contract and during the Award of Work to the PIA for the quoted OEM products. **We hereby declare that the proposed product complies with all the specifications defined and desired in this RFP and subsequent corrigendums.**

If any product is declared end of sale, we shall proactively ensure that a suitable equivalent or higher roll over product is offered through the existing PIA to GFGNL for due approval, contract and order executions thereafter.

We understand that any false information/commitment provided here may result in <OEM's Name> getting blacklisted/debarred from doing business with GFGNL.

Thanking You

For <OEM/ **Manufacturer name**>
< **(Authorized Signatory)**>

Name:

Designation:

Contact Details:

Seal of the Company

NOTE:

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

2. Any deviation would lead to summarily rejection of bids.

Annexure E – (Revised) Route Details

Excel sheet attached separately

1.1 (Additional Clause) Summary of Packages where work is to be performed through PIA on turnkey basis:

Scope of software for NMS for Package A

Software	Procurement	Implementation	Feature Development	Operate	Maintenance
Network Management System <ul style="list-style-type: none"> • GIS integration • RFMS • EMS(Element Management System) <ol style="list-style-type: none"> 1. OLT 2. ONT 3. Transport layer 4. Active Electronics at NOC 	✓	✓	✓	✓	✓

Scope of software for NMS for Package B

Software	Procurement	Implementation	Feature Development	Operate	Maintenance
<ul style="list-style-type: none"> • RFMS • EMS(Element Management System) <ol style="list-style-type: none"> 1. OLT 2. ONT 3. Transport layer 	✓	✓	✓	✓	✓

The RFMS and EMS(Element Management System) provided by PIA of Package B should get integrated with the NMS provided by PIA of Package A. Rest of the line items of RFP remain as it is for software packages defined for Packages A and B in Tables 1.1 and 1.2.

The PIA of package B will use Mobile Applications (Project and O&M phase), GIS-NIS, NMS, Webportal/Website, ERP and Project Management Tool provided by PIA of Package A. The PIA of Package B will assist the PIA of Package A in integration of all software wherever and whenever required during the entire contract period.