

Annex 5: Compliance Checklist

1. Compliance Sheet

A complete compliance sheet for each clause / sub-clause of RFA / SSA / Annexure / Schedules shall be provided as softcopy and as signed hardcopy in the following format:

Document	Clause No.	Compliance (FC/NC/NA)	Proposal Page Reference	Remarks in case of Partially or Not Complied
RFA				
SSA				
Schedules				
Annexes				

Note: FC- Fully Complied, NC – Not Complied, NA – Not Applicable.

2. Design Parameters

Following table of design parameters shall be filled up for the proposed solution:

ITEM	VALUE
Vendor	<i>[Enter Name of Vendor and Proposed Equipment Model]</i>
Towns/Union Councils	<i>[Enter Total Number of Town/Union councils]</i>
Route Length (Kms)	<i>[Enter Total Proposed Route Length]</i>
BTS OFC Connectivity & Services	<i>[Enter Total Number of BTS with OFC Connectivity]</i>
Type & No. of Nodes	<i>[Enter Type (Existing or New Node) & Total Number of Nodes]</i>
Fiber Type (Standard)	<i>[Enter Fiber Type]</i>
Cable Type and No. of Pairs	<i>[Enter Cable Type (Direct, Duct or Arial) with Total Number of Fiber Pairs]</i>
Wavelength of Light	<i>[Enter Wavelength of Light]</i>
Average Attenuation for Fiber Optic Cable (dB/km)	<i>[Enter Average Attenuation for Fiber Optic Cable (dB/km)]</i>
Fiber Optic Cable Cutoff Wavelength	<i>[Enter Fiber Optic Cable cutoff Wavelength]</i>
Chromatic Dispersion	<i>[Enter Chromatic Dispersion]</i>

Optical Safety	<i>[Enter Optical Safety]</i>
Protection and Reliability	<i>[Enter Protection of Network and Equipment and Reliability]</i>
Cross Connect Capabilities	<i>[Enter Cross Connect Capabilities]</i>
Ethernet Facilities	<i>[Enter Ethernet Facilities]</i>
Synchronization Capabilities	<i>[Enter Synchronization Capabilities]</i>
NMS Capacity	<i>[Enter NMS Capacity]</i>
NMS Software Platform	<i>[Enter NMS Software Platform]</i>
NMS Response Time	<i>[Enter NMS Response Time]</i>
Depth of Laid Cable	<i>[Enter Depth of Laid Cable]</i>
Renewable Energy Solution Technology	<i>[Enter Technology Name]</i>
Renewable Energy Solution (OFC Node Count)	<i>[Enter Node Count]</i>
Commercial Power (OFC Node Count)	<i>[Enter Node Count]</i>
DG with capacities (OFC Node Count)	<i>[Enter Node Count]</i>
Battery Backup time	<i>[Enter Backup time]</i>
Battery Life	<i>[Enter Battery Life]</i>

3. Additional Information

- a) GIS information (ArcGIS/Mapinfo/Google Earth KMZ) of the planned routes shall be provided including following information.
 - i) Location of the nodes with names
 - ii) OFC routes with distance
- b) Cable route & network connectivity diagrams (compatible with MS Visio) shall be provided including following information:
 - i) Nodes with names, capacity, BoM (without Price), ownership (USF or SP existing/planned etc)
 - ii) Links with distances, number of pairs & type, BoM (without Price), ownership (USF or SP existing/planned)
- c) Detailed requirements, design, criteria, assumptions, and calculations for proposed power solution should be provided. The design calculations shall also include the power of Primary and Secondary source of power, number of batteries, offered backup time, required charging time of the primary source, required charging time by the secondary source of the primary source, lifetime and operating temperature. All calculations shall be supported by the offered products' datasheets.
- d) Recommended format of BoQ is to be filled-in and submitted with the bid (i.e. without financial values in Q&S technical part and with financial values in subsidy proposal). Applicant must provide BoQ as per format and manner provided in the following tables. The applicant may define/choose/add suitable line items and may combine line items as well in accordance with their technical design.

i. Technical BoQ

ISP Solution

Active Node Category 1

Item	Qty Per Site	Total Sites
Transmission Equipment-Model (Chassis)	[xx]	[xx]
10GE Optical Card (8 Ports)	[xx]	
1+1 control/supervisory Card for Redundancy	[xx]	
GE Card (8 Ports)	[xx]	

Active Node Category 2

Item	Qty Per Site	Total Sites
Transmission Equipment-Model (Chassis)	[xx]	[xx]
10GE Optical Card (8 Ports)	[xx]	
50G Optical Card (1 Port)	[xx]	
1+1 control/supervisory Card for Redundancy	[xx]	
GE Card (8 Ports)	[xx]	

Access System Category 1

Item	Qty Per Site	Total Sites
Access System OLT	[xx]	[xx]
Passive Splitters (1x32)	[xx]	

Access System Category 2

Item	Qty Per Site	Total Sites
Passive Splitters (1x32)	[xx]	[xx]

Cabinet Category 1

Item	Qty Per Site	Total Sites
Cabinet (Outdoor)	[xx]	[xx]
Rectifiers	[xx]	
Cooling System (AC/Heat Exchangers)	[xx]	
Power Distribution Unit (PDU)	[xx]	

Cabinet Category 2

Item	Qty Per Site	Total Sites
Cabinet (Indoor)	[xx]	[xx]
Rectifiers	[xx]	
Cooling System (AC/Heat Exchangers)	[xx]	
Power Distribution Unit (PDU)	[xx]	

Power Solution**Power Category 1**

S/No	Item Description	Capacity	Qty Per Site	Total Sites
1	Primary Source - Solar	[xx]	[xx]	[xx]
2	Secondary Source - Grid/Commercial	[xx]	[xx]	
3	Battery Bank	[xx]	[xx]	

Power Category 2

S/No	Item Description	Capacity	Qty Per Site	Total Sites
1	Primary Source - Solar	[xx]	[xx]	[xx]
2	Secondary Source – DG	[xx]	[xx]	
3	Battery Bank	[xx]	[xx]	

Site Civil Work**Site Civil Work Category 1**

S/No	Scope Description	Qty Per Site	Total Sites
1	Site Acquisition (New)	[xx]	[xx]
2	Civil Work / Site Renovation / etc.	[xx]	

Site Civil Work Category 2

S/No	Scope Description	Qty Per Site	Total Sites
1	Site Acquisition (Existing)	[xx]	[xx]
2	Civil Work / Site Renovation / etc.	[xx]	

OSP Solution

OSP Category 1

OFC Link Category	Total OFC Length (Km)
Duct Buried	[xx]

OSP Category 2

OFC Link Category	Total OFC Length (Km)
Aerial	[xx]

Details of all OFC Links

District	UC/Town to be served	OFC Link Name	Site A	Latitude	Longitude	Site B	Latitude	Longitude	OFC Link Length (Km)
[xxx]	[xxx]	[xxx] - [xxx]	[xxx]	[xx.xxxx]	[xx.xxxx]	[xxx]	[xx.xxxx]	[xx.xxxx]	[xx]
[xxx]	[xxx]	[xxx] - [xxx]	[xxx]	[xx.xxxx]	[xx.xxxx]	[xxx]	[xx.xxxx]	[xx.xxxx]	[xx]
[xxx]	[xxx]	[xxx] - [xxx]	[xxx]	[xx.xxxx]	[xx.xxxx]	[xxx]	[xx.xxxx]	[xx.xxxx]	[xx]
...

Site wise Category Mapping

Site wise category mapping is required to tag each site with its corresponding ISP, OSP, Power and Site Civil work category. Example is given below.

S.No.	Site/ Node/ UC	ISP Solution			Power Solution	Site Civil Work	Remarks
		Node Category	Access System Category	Cabinet Category	Power Category	Site Civil Work Category	
1	[xxx]	Category 1	Category 1	Category 1	Category 1	Category 1	
2	[xxx]	Category 2	Category 2	Category 1	Category 2	Category 2	
3	[xxx]	Category 1	Category 2	Category 2	Category 1	Category 2	
...

ii. Financial BoQ

ISP Solution

Active Node Category 1

Item	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Transmission Equipment-Model (Chassis)	[xx]	[xx]				
10GE Optical Card (8 Ports)	[xx]					
1+1 control/supervisory Card for Redundancy	[xx]					
GE Card (8 Ports)	[xx]					

Active Node Category 2

Item	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Transmission Equipment-Model (Chassis)	[xx]	[xx]				
10GE Optical Card (8 Ports)	[xx]					
50G Optical Card (1 Port)	[xx]					
1+1 control/supervisory Card for Redundancy	[xx]					
GE Card (8 Ports)	[xx]					

Access System Category 1

Item	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Access System OLT	[xx]	[xx]				
Passive Splitters (1x32)	[xx]					

Access System Category 2

Item	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Passive Splitters (1x32)	[xx]	[xx]				

Cabinet Category 1

Item	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Cabinet (Outdoor)	[xx]	[xx]				
Rectifiers	[xx]					
Cooling System (AC/Heat Exchangers)	[xx]					
Power Distribution Unit (PDU)	[xx]					

Cabinet Category 2

Item	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Cabinet (Indoor)	1	[xx]				
Rectifiers	1					
Cooling System (AC/Heat Exchangers)	1					
Power Distribution Unit (PDU)	1					

Power Solution**Power Category 1**

S/No	Item Description	Capacity	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
1	Primary Source - Solar	[xx]	[xx]	[xx]				
2	Secondary Source - Grid/Commercial	-	[xx]					
3	Battery Bank	[xx]	[xx]					

Power Category 2

S/No	Item Description	Capacity	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
1	Primary Source - Solar	[xx]	[xx]	[xx]				
2	Secondary Source – DG	[xx]	[xx]					
3	Battery Bank	[xx]	[xx]					

Power Category 3

S/No	Item Description	Capacity	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
1	Primary Source - Grid/Commercial	-	[xx]	[xx]				
2	Secondary Source – Solar	[xx]	[xx]					
3	Battery Bank	[xx]	[xx]					

Site Civil Work**Site Civil Work Category 1**

S/No	Scope Description	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
1	Site Acquisition (New)	[xx]	[xx]				
2	Civil Work / Site Renovation / etc.	[xx]					

Site Civil Work Category 2

S/No	Scope Description	Qty Per Site	Total Sites	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
1	Site Acquisition (Existing)	[xx]	[xx]				
2	Civil Work / Site Renovation / etc.	[xx]					

OSP Solution

OFC Link Category	Total OFC Length (Km)	Unit Cost	Unit Subsidy	Total Cost	Total Subsidy
Category 1 (Duct) Store	[xx]				
Category 1 (Duct) ROW	[xx]				
Category 1 (Duct) Services	[xx]				
Category 2 (Aerial) Store	[xx]				
Category 2 (Aerial) ROW	[xx]				
Category 2 (Aerial) Services	[xx]				

Above are the same tables as provided in Qualification and Services Proposal with item-wise cost & subsidy added.