Appendix-B

Data Requirement Sheets

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Data Requirement Sheets

The following sets of Data Requirement Sheets are required to be filled up by the bidders to aid in the evaluation process. The response shall be brief and to the point and shall be supported by the printed product description and other literature. The DRS duly filled and the relevant drawings shall also be submitted during the detailed engineering along with the relevant technical brochures.

DRS Form 1(a)

DATA REQUIREMENTS SHEETS for
OVERHEAD FIBRE OPTIC CABLE
OPTICAL GROUND WIRE (OPGW) – 24/48/96
Fibre:

Manufacturer: _____
Part #: _____

Configuration: _____

CABLE CONSTRUCTION			
Seq	**Parameter:**	**As per Technical Specification**	**As per Bidder Offering**
1.	No. of Fibres Dual Window Single-Mode:	24/48/96	
2.	Buffer Type:	As applicable	
3.	Buffer Tube material	As applicable	
4.	No. of Buffer Tubes:	As applicable	
5.	No. of Fibers per bufferTube:	As applicable	
6.	Expected Cable Life:	25 Year	
7.	**Parameters of OPGW**		
(i)	UTS	In Kgf	
(ii)	Effective area	In mm^2	
(iii)	Weight	In kg/m	
(iv)	Diameter	In mm	
(v)	Modulus of elasticity	In kg/ mm^2	
(vi)	Coeff. Of linear expansion	In /°C	
(vii	Central tube design	Al or Steel	

DRS Form 2

DATA REQUIREMENTS SHEETS for OPTICAL FIBRE

DUAL-WINDOW SINGLE MODE (DW-SM)

OPTICAL PARAMETERS			
Seq	**Parameter:**	**As per Technical Specification**	**As per Bidder offering**
1.	Fiber manufacturer(s)/Type:		
2.	Attenuation Coefficient@ 1310 nm: @ 1550 nm:	≤ 0.35 dB/km ≤ 0.21 dB/km	
3.	Point discontinuity @ 1310nm: @ 1550nm:	≤ 0.05 dB ≤ 0.05 dB	
4.	Nominal Mode Field Diameter @ 1310 nm:	8.6 to 9.5 µm (± 0.6 µm)	
5.	Chromatic Dispersion Coefficient @ 1310 (1288-1339) nm: @ 1310 (1271-1360) nm: @ 1550 nm:	 3.5 ps/(nmxkm) 5.3 ps/(nmxkm) 18 ps/(nmxkm)	
6.	Zero dispersion wavelength:	1300 to 1324 nm	
7.	Cutoff wavelength:	≤ 1260 nm	
Physical and Mechanical Properties			
8.	Bend Performance: (37.5 mm radius, 100 turns) @1310 nm (30 mm radius, 100 turn) @1550 nm (16mm radius, 1 turn) @ 1550nm	≤ 0.05 dB ≤ 0.05 dB ≤ 0.50 dB	
9.	Cladding Diameter (nominal ± deviation):	125.0 µm ± 1 µm	
10.	Polarisation mode dispersion coefficient	≤ 0.2 ps/km$^{1/2}$	
11.	Proof test level	≥ 0.69 Gpa	

----------End of the Appendix----------