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GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001

CERTIFICATE OF DESIGNATION

M/S STERLITE TECHNOLOGIES LTD. (OFC QUALITY ASSURANCE LABORATORY), SILVASA
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396230,
U. T. of Dadra and Nagar Haveli

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/83

Issue Date: 11/09/2025 **Validity: 30/08/2025 to 29/08/2028**

This Certificate remains valid for the Scope of Designation as specified in the Annexure subject to the continued validity of NABL Accreditation and satisfied compliance to the Standards/specifications against which lab has been designated and strict compliance to the relevant terms and conditions of TEC CAB Designation Scheme.

(To see the scope of designation of this laboratory, you may also visit TEC website www.tec.gov.in)

Signed for and on behalf of TEC

Digitally signed by
Sanjeev Kumar Arya
Date: 11-09-2025
16:03:32

Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/83 dated 11/09/2025 issued to
M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory), Silvasa
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli.

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Validity: - 30/08/2025 to 29/08/2028

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

1. It shall ensure that it maintains its accreditation status from any recognised Indian accreditation body like NABL during validity period of certificate.

2. It shall follow the stipulated procedures, rules and policies laid down by Designating Authority (DA) or Mutual Recognition Agreement (MRA)* partner for testing and evaluation.

3. In respect of tests for which it is seeking designation, it shall have no interest whatsoever in any business to carry on testing in an unfair or biased manner.

4. It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.

5. It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.

6. It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.

7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.

8. It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.

*Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence

a) Cessation of its business of conformity assessment for which it is Designated or accredited
b) Changes in its legal, commercial, or Organisational status
c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
d) Change of premises

B. REFERENCE TO DESIGNATION STATUS

1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.

2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.

3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

C. POST-DESIGNATION SURVEILLANCE

As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

1. DA shall suspend or withdraw the designation of a CAB if
   a. Its accreditation is withdrawn.
   b. It is found that the CAB is not complying with the stipulated criteria or requirements.
   c. It is guilty of any offence involving fraud or dishonesty.
   d. DA concludes that there is a just cause for withdrawing the designation.

2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.

3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

E. AMENDMENT TO THE SCHEME

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 1 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
1	**Optical Fibre (Single Mode)**	**Mode Field Diameter**	for 1310 nm for Optical Fibre (ITU-T G.652.D) IEC 60793-1-45	TEC ER No. TEC70112401
			for 1550 nm for Optical Fibre (ITU-T G.655) IEC 60793-1-45	TEC ER No. TEC70112401
			for 1550 nm for Optical Fibre (ITU-T G.656) IEC 60793-1-45	TEC ER No. TEC70112401
			for 1310 nm for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-45	TEC ER No. TEC70112401
			for 1310 nm for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-45	TEC ER No. TEC70112401
			for 1310 nm for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-45	TEC ER No. TEC70112401
		Cladding Diameter	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20	TEC ER No. TEC70112401

***The validity of Certificate is up to 29/08/2028 or the continued validity of NABL Accreditation, whichever is earlier.**

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 2 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Cladding Diameter**	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20	TEC ER No. TEC70112401
		Cladding Non-Circularity	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20	TEC ER No. TEC70112401
		Core Clad Concentricity error	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70112401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 3 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Coating/ Cladding Concentricity**	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
		Coating Diameter	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401

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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 4 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Coating Diameter**	for Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70112401
		Attenuation of Uncabled Fibre	for Optical Fibre (ITU-T G.652.D) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) (i) at 1550 nm (ii) at 1625 nm IEC 60793-1-40	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) (i) at 1460 nm (ii) at 1550 nm (iii) at 1625 nm (iv) at 1383 nm IEC 60793-1-40	TEC ER No. TEC70112401

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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 5 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Attenuation of Uncabled Fibre**	for Optical Fibre (ITU-T G.657.A1) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC70112401

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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 6 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Chromatic Dispersion**	for Optical Fibre (ITU-T G.652.D) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70112401
		Zero Dispersion Slope	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-42	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70112401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 7 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Zero Dispersion Slope**	for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-42	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42	TEC ER No. TEC70112401
		Zero Dispersion Wavelength range	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-42	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42	TEC ER No. TEC70112401
		Polarization Mode Dispersion for Uncabled Fiber	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre(ITU-T G.656) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70112401
		Cable Cut off Wavelength	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70112401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 8 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Cable Cut off Wavelength**	for Optical Fibre (ITU-T G.655) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70112401
		Fibre Cutoff Wavelength for Fibre used in Patch cords & Pig-tails	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44	TEC ER No. TEC70112401
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel)	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre(ITU-T G.656) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401

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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 9 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel)**	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre(ITU-T G.656) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 50 ± 0.5 mm diameter mandrel)	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 10 turns on 15 mm radius mandrel)	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401

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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 10 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 10 mm radius mandrel)**	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 7.5 mm radius mandrel)	for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 5 mm radius mandrel	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70112401

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Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

ISO 9001:2015

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Peak Stripability Force to Remove Primary Coating of the fiber (Unaged, Water aged, Damp Heat aged)**	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70112401
		Fibre Curl	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.655) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.656) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70112401
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70112401

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U. T. of Dadra and Nagar Haveli

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	**Fibre Curl**	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70112401
2.	**Raw material for Manufacturing of Optical Fibre Cable**	**Mode Field Diameter**	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 at 1550 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 at 1550 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Cladding Diameter**	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 at 1550 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 at 1550 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
		Cladding Non-Circularity	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-20	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-20	TEC GR No. TEC89010:2021

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Cladding Non-Circularity**	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-20	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-20	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-20	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-20	TEC GR No. TEC89010:2021
		Core Clad Concentricity error	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Coating/ Cladding Concentricity**	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Coating Diameter	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Coating Diameter**	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 17 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Attenuation before Cabling**	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D (i) at 1310 nm (ii between 1285-1380 nm (iii) between 1390-1525 nm (iv) at 1550 nm (v) between 1525-1625 nm (vi) at 1270 nm (vii) at 1490 nm (viii) at 1625 nm (ix) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 (i) between 1525 - 1565 nm (ii between 1565 - 1625 nm (iii) at 1550 nm (iv) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 (i) between 1460-1525 nm (ii) between 1525-1565 nm (iii) between 1565-1625 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Attenuation before Cabling**	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) at 1270 nm (ii) at 1310 nm (iii) between 1285 -1360 nm (iv) between 1360 -1480 nm (v) at 1490 nm (vi) between 1480 to 1525 nm (vii) at 1550 nm (viii) between 1525 to 1625 nm (ix) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) at 1270 nm (ii) at 1310 nm (iii) between 1285 -1360 nm (iv) between 1306-1480 nm (v) at 1490 nm (vi) between 1480-1525 nm (vii) at 1550 nm (viii) between 1525-1625 nm (ix) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Attenuation before Cabling**	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 (i) at 1310 nm (ii) between 1285 -1360 nm (iii) between 1360 -1525 nm (iv) at 1550 nm (v) between 1525 to 1625 nm (vi) at 1270 nm (vii) at 1490 nm (viii) at 1625 nm, IEC 60793-1-40	TEC GR No. TEC89010:2021
		Fibre Attenuation after Cabling Fibre	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D (i) at 1310 nm (ii)at 1550 nm (iii) at 1625 nm (iv) at 1490 nm (v) water peak attenuation at **1383nm ± 3nm** IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 (i) at 1550 nm (ii) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Attenuation after Cabling Fibre**	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 (i) at 1440 nm (ii) at 1550 nm (iii) at 1625 nm (iv) water peak attenuation at **1383nm ± 3nm** IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) at 1310 nm (ii) at 1383 nm (iii) at 1490 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) at 1310 nm (ii) at 1383 nm (iii) at 1490 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Attenuation after Cabling Fibre**	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 (i) at 1310 nm (ii) at 1383 nm (iii) at 1490 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
		Cable Cut off Wavelength	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Cutoff Wavelength for Fibre used in Patch cords & Pig-tails**	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-44	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-44	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-44	TEC GR No. TEC89010:2021
		Fibre Curl	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)**
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel)**	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 10 turns on 15 mm radius mandrel)**	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 10 mm radius mandrel	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 7.5 mm radius mandrel	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 5 mm radius mandrel**	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Polarization Mode Dispersion for Uncabled Fiber	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Polarization Mode Dispersion for Cabled Fiber**	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Zero Dispersion Slope	Section-I, Type-I, Single Mode Optica Fibre as per ITU-T G.652.D IEC 60793-1-42	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-42	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-42	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Zero Dispersion Slope**	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-42	TEC GR No. TEC89010:2021
		Zero Dispersion Wavelength range	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-42	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-42	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-42	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-42	TEC GR No. TEC89010:2021
		Peak Stripability Force to Remove Primary Coating of the fiber (Unaged, Water aged, Damp Heat aged)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Peak Stripability Force to Remove Primary Coating of the fiber (Unaged, Water aged, Damp Heat aged)**	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Total Dispersion (Chromatic Dispersion)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Total Dispersion (Chromatic Dispersion)**	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-II Central Strength Member Fibre reinforced Plastic rod (FRP)	Thermal Resistance Test as per TEC 89010:2021	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D3916	TEC GR No. TEC89010:2021
			Heat Stress Test as per TEC 89010:2021	TEC GR No. TEC89010:2021
			Minimum Bend Diameter as per TEC 89010:2021	TEC GR No. TEC89010:2021
			Tensile Strength at break as per ASTM D3916	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- III [Generic Requirements of Sheath Material (Polyethylene HDPE (BLACK)]**	Carbon Black content as per ASTM D1603	TEC GR No. TEC89010:2021
			Environmental Stress Cracking Resistance (ESCR) as per ASTM D1693	TEC GR No. TEC89010:2021
			Carbon black dispersion as per IS-7328	TEC GR No. TEC89010:2021
			Oxidation Induction Time as per ASTM D3895	TEC GR No. TEC89010:2021
			Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D638	TEC GR No. TEC89010:2021
			Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
			Moisture (content) Test as per ASTM D817	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
			UV Resistance Test as per IEC 60794-1-22, ASTM 154	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- IV [Generic Requirements of Outer JACKET Material (Polyamide–12)]**	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
			Elongation as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
			Hardness as per ASTM D 2240	TEC GR No. TEC89010:2021
			Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021
		Section- V [Generic Requirements of Outer JACKET Material Polyamide – 11]	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
			Elongation test as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- V [Generic Requirements of Outer JACKET Material Polyamide – 11]**	Hardness as per ASTM D 2240	TEC GR No. TEC89010:2021
			Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021
		Section- VI-1 Generic Requirements of Polypropylene Material	Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
			Elongation Test as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
		Section- VI-2 Generic Requirements of Polybutylene Terephthalate (PBTP) Material	Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
			Elongation Test as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- VII, Type- 1, Type- 2 [Generic Requirements of FILLING COMPOUND for LOOSE TUBE (For Temperature Range of -30°C to +80°C & For Temperature Range of -40°C to +80°C)]**	Cone Penetration at 25°C as per ASTM D217	TEC GR No. TEC89010:2021
			Cone Penetration at -30 °C as per ASTM D217	TEC GR No. TEC89010:2021
			Density Test as per ASTM D1217	TEC GR No. TEC89010:2021
			Drop point as per ASTM 566	TEC GR No. TEC89010:2021
			Flash point as per ASTM D92	TEC GR No. TEC89010:2021
			Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material as per ASTM D4568	TEC GR No. TEC89010:2021
		Section- VIII, Type- 1, Type- 2 [Generic Requirements of Cable Flooding Compound (For Temperature Range of -30°C to	Cone Penetration at 25°C as per ASTM D217	TEC GR No. TEC89010:2021
			Cone Penetration at -30 °C as per ASTM D217	TEC GR No. TEC89010:2021
			Density test as per ASTM D1217	TEC GR No. TEC89010:2021
			Drop point as per ASTM 566	TEC GR No. TEC89010:2021
			Flash point as per ASTM D92	TEC GR No. TEC89010:2021

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TELECOMMUNICATION ENGINEERING CENTRE
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

ISO 9001:2015

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory) Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230, U. T. of Dadra and Nagar Haveli**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**+80°C & For Temperature Range of -40°C to + 80°C]**	Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material as per ASTM D4568	TEC GR No. TEC89010:2021
		Section- IX, Type-1, Type-2 [Generic Requirements of Binder Tape and NYLON/ POLYESTER Binder Thread (PP & Nylon/ Polyester)]	Tensile (breaking load) & Belt Strength as per ASTM D882	TEC GR No. TEC89010:2021
			Elongation Test as per ASTM D882	TEC GR No. TEC89010:2021
		Section- X [Generic Requirements of Polyester Foil/Tape (Natural)]	Tensile (breaking load) & Belt Strength as per ASTM D882	TEC GR No. TEC89010:2021
			Elongation test as per ASTM D882	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- XI [Generic Requirements of Impregnated Semi Rigid Fibre Reinforced Plastic ROD]**	Elongation as per ASTM D3916	TEC GR No. TEC89010:2021
			Minimum Bend Diameter as per TEC GR No. TEC89010:2021	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D3916	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
		Section- XII [Generic Requirements of Impregnated Glass Fibre Reinforced]	Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
		Section- XIV [Generic Requirements of Water BLOCKING Tape]	Swelling Speed as per As per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
			Swelling Height as per As per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
		Section- XVI [Generic Requirements of Aramid Reinforced PLASTIC (ARP) ROD]	Elongation at Break as per ASTM D3916	TEC GR No. TEC89010:2021
			Heat Stress Test as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
			Minimum Bend Diameter as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- XVI [Generic Requirements of Aramid Reinforced PLASTIC (ARP) ROD]**	Tensile Strength at break as per ASTM D3916	TEC GR No. TEC89010:2021
		Section- XVIII [Generic Requirements of POLYESTER RIP CORD	Gram per Denier (GPD) ASTM D2256/ D2256M	TEC GR No. TEC89010:2021
			Breaking Load as per ASTM D2256/ D2256M\	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021
		Section- XIX [Generic Requirements of Water Swellable (WS) YARN]	Breaking Load as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021
			Swelling Capacity as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
			Swelling Speed as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- XX [Generic Requirements of LSZH Material (for Sheathing]**	Environmental Stress Cracking Resistance (ESCR) as per ASTM D1693	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength as per ASTM D638	TEC GR No. TEC89010:2021
			Hardness as per ASTM D2240	TEC GR No. TEC89010:2021
		Section- XXI (Generic Requirements of Anti Tracking Polyethylene for ADSS OPTICAL FIBRE CABLE)	Carbon black content as per ASTM D1603	TEC GR No. TEC89010:2021
			Environmental Stress Cracking Resistance (ESCR) as per ASTM D1693	TEC GR No. TEC89010:2021
			Carbon black dispersion as per IS-7328	TEC GR No. TEC89010:2021
			Oxidation Induction Time as per ASTM D3895	TEC GR No. TEC89010:2021
			Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Elongation as per ASTM D638	TEC GR No. TEC89010:2021
			Moisture (Content) Test as per ASTM D1238	TEC GR No. TEC89010:2021
			Tensile Strength as per ASTM D638	TEC GR No. TEC89010:2021

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- XXI (Generic Requirements of Anti Tracking Polyethylene for ADSS OPTICAL FIBRE CABLE)**	UV Resistance Test as per IEC 60794-1-22, ASTM G-154	TEC GR No. TEC89010:2021
			Tracking & Erosion Test (For Track Resistance) as per IEC60794-4-20, ASTM D 2303	TEC GR No. TEC89010:2021
		Section- XXII [Generic Requirements of Specification for FILLING JELLY for OPGW CABLE]	Cone Penetration at 25°C as per ASTM D217	TEC GR No. TEC89010:2021
			Cone Penetration at -30 °C as per ASTM D217	TEC GR No. TEC89010:2021
			Density as per ASTM D1217	TEC GR No. TEC89010:2021
			Drop point as per ASTM 566	TEC GR No. TEC89010:2021
			Flash point as per ASTM D92	TEC GR No. TEC89010:2021
			Oil separation as per FTM 791-321	TEC GR No. TEC89010:2021
			Volatility loss as per FTM 791-321	TEC GR No. TEC89010:2021
			Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material as per ASTM D4568	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section-XXVII [Generic Requirements of Polyamide 12 / Polyamide 11 for TIGHT BUFFER]**	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Melt Flow Rate as per ASTM D1238	TEC GR No. TEC89010:2021
			Elongation as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength as per ASTM D792	TEC GR No. TEC89010:2021
			Melting Point as per ASTM D3418	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D570	TEC GR No. TEC89010:2021
			Hardness as per ASTM D2240	TEC GR No. TEC89010:2021
		Section-XXVIII [Generic Requirements of Polyamide 10, for OUTER JACKET Material]	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Melt Flow Rate as per ASTM D1238	TEC GR No. TEC89010:2021
			Elongation as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength as per ASTM D638	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D570	TEC GR No. TEC89010:2021
			Hardness as per ASTM D2240	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	**Section- XXVIII [Generic Requirements of Polyamide 10, for OUTER JACKET Material]**	Colour (Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021
		Section- XXIX [Generic Requirements of Thermoplastic Polyurethane (TPU) for OUTER JACKET Material]	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Melt Flow Rate as per ASTM D1238	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D570	TEC GR No. TEC89010:2021
			Hardness as per ASTM D2240	TEC GR No. TEC89010:2021
			Colour (Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021
3	**Optical Fibre Cable**	**Variant-1: Hybrid Cable - Optical and Metallic**	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-1: Hybrid Cable - Optical and Metallic**	Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-1: Hybrid Cable - Optical and Metallic**	UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink Resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness /Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-1: Hybrid Cable - Optical and Metallic**	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend Test as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-1: Hybrid Cable - Optical and Metallic**	Zero Dispersion Slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x, ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with1 turn on 7.5 mm radius mandrel	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-1: Hybrid Cable - Optical and Metallic**	(vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022401
		Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment**	Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Aeolian Vibration Test as per IEEE 1222	TEC ER No. TEC70022401
			Galloping Test as per IEEE 1222	TEC ER No. TEC70022401
			Creep Test as per IEC 60794-4-20	TEC ER No. TEC70022401
			Snatch Test as per IEC 60794-1-2-E9	TEC ER No. TEC70022401
			Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401

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ISO 9001:2015

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment**	Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness /Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment**	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401

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SCOPE OF DESIGNATION
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Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory) Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230, U. T. of Dadra and Nagar Haveli

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment**	Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x, ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment**	Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-3: Optical Fibre Cable- ADSS over Power line	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-3: Optical Fibre Cable- ADSS over Power line**	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Aeolian Vibration Test as per IEEE 1222	TEC ER No. TEC70022401
			Galloping Test as per IEEE 1222	TEC ER No. TEC70022401
			Creep Test as per IEC 60794-4-20	TEC ER No. TEC70022401
			Snatch Test as per IEC 60794-1-2-E9	TEC ER No. TEC70022401
			Electrical Test/ Tracking & Erosion Test as per IEC60794-4-20	TEC ER No. TEC70022401
			Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-3: Optical Fibre Cable- ADSS over Power line**	Check of the effect of aggression media on the cable ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test - Tight Buffer Test as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-3: Optical Fibre Cable- ADSS over Power line**	Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/ 1550nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-3: Optical Fibre Cable- ADSS over Power line**	**Fibre Macro bend loss as per ITU-T G.65x, ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47**: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	TEC ER No. TEC70022401
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-4: Optical Fibre Cable- Direct Buried**	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-4: Optical Fibre Cable- Direct Buried**	Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink Resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/ Compound Flow Test as per IEC 60794-1-21, IEC 60794-3, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness /Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-4: Optical Fibre Cable- Direct Buried**	Strippability Test -Tight Buffer Test as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/ 1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-4: Optical Fibre Cable- Direct Buried**	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	TEC ER No. TEC70022401

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Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

ISO 9001:2015

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)**
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 59 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-4: Optical Fibre Cable- Direct Buried**	(iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-5: Optical Fibre Cable- DSA	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401

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(ANNEXURE)

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-5: Optical Fibre Cable- DSA**	Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-5: Optical Fibre Cable- DSA**	UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-5: Optical Fibre Cable- DSA**	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-5: Optical Fibre Cable- DSA**	Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1turn on 10 mm radius mandrel	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-5: Optical Fibre Cable- DSA**	(vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-6: Optical Fibre Cable- Duct	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-6: Optical Fibre Cable- Duct**	Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-6: Optical Fibre Cable- Duct**	Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-6: Optical Fibre Cable- Duct**	Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-6: Optical Fibre Cable- Duct**	Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-6: Optical Fibre Cable- Duct**	(vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-7: Optical Fibre Cable- In Home	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-7: Optical Fibre Cable- In Home**	Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-7: Optical Fibre Cable- In Home**	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	TEC ER No. TEC70022401

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-7: Optical Fibre Cable- In Home**	(iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022401
		Variant-8: Optical Fibre Cable- Indoor	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-8: Optical Fibre Cable- Indoor**	PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401

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SCOPE OF DESIGNATION
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Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory) Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230, U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-8: Optical Fibre Cable- Indoor**	Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
	Optical Fibre Cable		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
	Optical Fibre Cable		Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
	Optical Fibre Cable		Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
	Optical Fibre Cable		Drainage Test/Compound Flow test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
	Optical Fibre		Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Cable Optical Fibre	**Variant-8: Optical Fibre Cable-Indoor**	Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter Test IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity Test IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Cable Optical Fibre	**Variant-8: Optical Fibre Cable- Indoor**	Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Cable Optical Fibre	**Variant-8: Optical Fibre Cable-Indoor**	Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022401
		Variant-9: Optical Fibre Cable-Indoor/ Outdoor	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Cable Optical Fibre	**Variant-9: Optical Fibre Cable- Indoor/ Outdoor**	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401

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Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Cable Optical Fibre	**Variant-9: Optical Fibre Cable- Indoor/ Outdoor**	Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Cable Optical Fibre	**Variant-9: Optical Fibre Cable- Indoor/ Outdoor**	Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-9: Optical Fibre Cable- Indoor/ Outdoor**	(iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-10: Optical Fibre Cable-Lashed Aerial**	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-10: Optical Fibre Cable-Lashed Aerial**	Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-10: Optical Fibre Cable-Lashed Aerial**	Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-10: Optical Fibre Cable-Lashed Aerial**	Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-10: Optical Fibre Cable-Lashed Aerial**	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-11: Optical Fibre Cable-Micro-Duct	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-11: Optical Fibre Cable-Micro-Duct**	Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable Optical Fibre Cable Optical Fibre Cable Optical Fibre Cable Optical Fibre Cable Optical Fibre Cable Optical Fibre Cable Optical Fibre Cable	**Variant-11: Optical Fibre Cable-Micro-Duct**	Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-11: Optical Fibre Cable-Micro-Duct**	Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-11: Optical Fibre Cable-Micro-Duct**	Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-11: Optical Fibre Cable-Micro-Duct**	Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-12: Optical Fibre Cable-Outdoor	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-12: Optical Fibre Cable- Outdoor**	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-12: Optical Fibre Cable-Outdoor**	Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-12: Optical Fibre Cable-Outdoor**	Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-12: Optical Fibre Cable- Outdoor**	fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
		Variant-13: Optical Fibre Cable- Riser	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-13: Optical Fibre Cable- Riser**	PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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ISO 9001:2015

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)
Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 97 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-13: Optical Fibre Cable- Riser**	Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022401
			Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 98 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-13: Optical Fibre Cable- Riser**	Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401

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Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,
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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 99 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-13: Optical Fibre Cable- Riser**	Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	TEC ER No. TEC70022401
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-13: Optical Fibre Cable- Riser**	Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022401
		Variant-14: Optical Ground Wire -OPGW	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022401
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022401
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022401
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022401
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022401
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022401
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022401
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-14: Optical Ground Wire -OPGW**	Creep Test as per IEC 60794-4-20	TEC ER No. TEC70022401
			Sheave Test as per IEEE 1138:2009	TEC ER No. TEC70022401
			Stress Strain Test as per IEEE 1138:2009	TEC ER No. TEC70022401
			Strain Margin Test as per IEEE 1138:2009	TEC ER No. TEC70022401
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Cable Material Compatibility Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022401
			Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022401
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022401
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022401
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-14: Optical Ground Wire -OPGW**	Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022401
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022401
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022401
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022401
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022401
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022401
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401
			Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022401

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Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable	**Variant-14: Optical Ground Wire -OPGW**	Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022401
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022401
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022401
			Fibre Macro bend loss as per ITU-T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel	TEC ER No. TEC70022401

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Certificate Number: TEC/MRA/CAB/IND-D/83 **Page 104 of 104**

Validity: 30/08/2025 to 29/08/2028 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Optical Fibre Cable	**Variant-14: Optical Ground Wire -OPGW**	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022401
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022401

Digitally signed by
Rajeev Ranjan
Date: 11-09-2025
16:49:56

AD (CA), TEC

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