



**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 STL OF QUALITY TESTING LABORATORY, AURANGABAD
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

E1 E2 E3, MIDC-Waluj, Aurangabad, Maharashtra- 431136

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/82

Issue Date: 25/07/2025

Validity: 13/07/2025 to 12/07/2028

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

**Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/82 dated 25/07/2025 issued to
M/s STL OF Quality Testing Laboratory, Aurangabad
E1 E2 E3, MIDC-Waluj, Aurangabad, Maharashtra- 431 136**



Validity: - 13/07/2025 to 12/07/2028

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESSMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESSMENT 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 STL OF Quality Testing Laboratory, Aurangabad
E1 E2 E3, MIDC-Waluj, Aurangabad, Maharashtra- 431 136

Certificate Number: TEC/MRA/CAB/IND-D/82

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Validity: 13/07/2025 to 12/07/2028

Last Amended on: ----

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

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

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Validity: 13/07/2025 to 12/07/2028

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

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Validity: 13/07/2025 to 12/07/2028

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)	Coating Diameter	Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21	TEC ER No. TEC70112401
		Attenuation of Uncabled Fibre	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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) (i) at 1550 nm (ii) at 1625 nm (iii) Sudden irregularity in attenuation IEC 60793-1-40	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) (i) at 1460 nm (ii) at 1550 nm (iii) at 1625 nm (iv) at 1383 nm (v) Sudden irregularity in attenuation IEC 60793-1-40	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)	Attenuation of Uncabled Fibre	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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	TEC ER No. TEC70112401
			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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)	Attenuation of Uncabled Fibre	Optical Fibre (ITU-T G.657.B3)	TEC ER No. TEC70112401
			(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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	
		Cable Cut off Wavelength	Optical Fibre (ITU-T G.652.D) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44	TEC ER No. TEC70112401
		Fibre Cutoff Wavelength for Fibre used in Patch cords & Pig-tails	Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	Polarization Mode Dispersion for Uncabled Fiber	Optical Fibre (ITU-T G.652.D) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48	TEC ER No. TEC70112401
		Polarization Mode Dispersion [Link design value for uncabled Fibre]	Optical Fibre (ITU-T G.652.D) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48	TEC ER No. TEC70112401
		Zero Dispersion Slope	Optical Fibre (ITU-T G.652.D) IEC 60793-1-42	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70112401

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SCOPE OF DESIGNATION **(ANNEXURE)**

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)	Zero Dispersion Slope	Optical Fibre (ITU-T G.657.A2) IEC 60793-1-42	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42	TEC ER No. TEC70112401
		Zero Dispersion Wavelength range	Optical Fibre (ITU-T G.652.D) IEC 60793-1-42	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-42	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42	TEC ER No. TEC70112401
		Fibre Macro bend loss	Optical Fibre (ITU-T G.652.D) IEC 60793-1-47	TEC ER No. TEC70112401
			(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.	

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)	Fibre Macro bend loss	Optical Fibre (ITU-T G.655) 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. TEC70112401
			Optical Fibre (ITU-T G.656) 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. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47 (i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel. (ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)	Fibre Macro bend loss	Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47 (i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel. (ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel. (iii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel.	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47 (i) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel. (ii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel. (iii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	TEC ER No. TEC70112401
		Peak Stripability Force to Remove Primary Coating of the fiber (Unaged,	Optical Fibre (ITU-T G.652.D) IEC 60793-1-32	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-32	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-32	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Optical Fibre (Single Mode)	Water aged, Damp Heat aged)	(ii) 250 µm fibre IEC 60793-1-32
			Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-32
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-32
		Dynamic Tensile Strength (Unaged, Damp Heat aged)	Optical Fibre (ITU-T G.652.D) IEC 60793-1-31
			Optical Fibre (ITU-T G.655) IEC 60793-1-31
			Optical Fibre (ITU-T G.656) IEC 60793-1-31
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-31
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-31
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-31
		Dynamic Fatigue (Unaged, Damp Heat aged)	Optical Fibre (ITU-T G.652.D) IEC 60793-1-33
			Optical Fibre (ITU-T G.655) IEC 60793-1-33
			Optical Fibre (ITU-T G.656) IEC 60793-1-33
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-33

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SCOPE OF DESIGNATION **(ANNEXURE)**

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-33	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-33	TEC ER No. TEC70112401
		Fibre Curl	Optical Fibre (ITU-T G.652.D) IEC 60793-1-34	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-34	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-34	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-34	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-34	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-34	TEC ER No. TEC70112401
		Operating Temperature/ Temperature Cycle Test/ Change of Temperature	Optical Fibre (ITU-T G.652.D) IEC 60793-1-52	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-52	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-52	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-52	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre (Single Mode)		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-52	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-52	TEC ER No. TEC70112401
		Temperature -Humidity Cycle Test	Optical Fibre (ITU-T G.652.D) EIA/TIA 455-73	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) EIA/TIA 455-73	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) EIA/TIA 455-73	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) EIA/TIA 455-73	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) EIA/TIA 455-73	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) EIA/TIA 455-73	TEC ER No. TEC70112401
			Water Immersion Test at 23 ⁰ C	Optical Fibre (ITU-T G.652.D) IEC 60793-1-53
		Optical Fibre (ITU-T G.655) IEC 60793-1-53		TEC ER No. TEC70112401
		Optical Fibre (ITU-T G.656) IEC 60793-1-53		TEC ER No. TEC70112401
		Optical Fibre (ITU-T G.657.A1) IEC 60793-1-53		TEC ER No. TEC70112401
		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-53		TEC ER No. TEC70112401
		Optical Fibre (ITU-T G.657.B3) IEC 60793-1-53		TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Optical Fibre (Single Mode)	Accelerated Aging (Dry Heat) Test at 85°C	Optical Fibre (ITU-T G.652.D) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-51	TEC ER No. TEC70112401
		Retention of Coating Color	Optical Fibre (ITU-T G.652.D) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-51	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-51	TEC ER No. TEC70112401
	Optical Fibre (Single Mode)	High Temperature and High Humidity	Optical Fibre (ITU-T G.652.D) IEC 60793-2-50	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-2-50	TEC ER No. TEC70112401

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
		Test	Optical Fibre (ITU-T G.656) IEC 60793-2-50	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-2-50	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-2-50	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-2-50	TEC ER No. TEC70112401
2.	Raw material for Manufacturing of Optical Fibre Cable	Mode Field Diameter	Optical Fibre (ITU-T G.652.D) IEC 60793-2-50	TEC GR No. TEC89010:2021
			1550 nm for Optical Fibre (ITU-T G.655) IEC 60793-1-45	TEC GR No. TEC89010:2021
			1550 nm for Optical Fibre (ITU-T G.656) IEC 60793-1-45	TEC GR No. TEC89010:2021
			1310 nm for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-45	TEC GR No. TEC89010:2021
	Raw material for Manufacturing	Mode Field Diameter	1310 nm for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-45	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	of Optical Fibre Cable	Core Clad Concentricity error	Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) IEC 60793-1-20	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.656) IEC 60793-1-20	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20	TEC GR No. TEC89010:2021
	Raw material for Manufacturing	Coating/Cladding Concentricity	Optical Fibre (ITU-T G.652.D) IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.656) IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	of Optical Fibre Cable	Coating Diameter	Optical Fibre (ITU-T G.652.D) IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.656) IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-21	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21	TEC GR No. TEC89010:2021
	Raw material for Manufacturing of Optical Fibre	Attenuation of Uncabled Fibre	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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) (i) at 1550 nm (ii) at 1625 nm	TEC GR No. TEC89010:2021
		Attenuation of Uncabled Fibre		

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Cable	(iii) Sudden irregularity in attenuation IEC 60793-1-40	
		Optical Fibre (ITU-T G.656) (i) at 1460 nm (ii) at 1550 nm (iii) at 1625 nm (iv) at 1383 nm (v) Sudden irregularity in attenuation IEC 60793-1-40	TEC GR No. TEC89010:2021
		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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	TEC GR No. TEC89010:2021
	Raw material for Manufacturing of Optical Fibre	Attenuation of Uncabled Fibre (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 (vii) Sudden irregularity in	TEC GR No. TEC89010:2021

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	Cable	attenuation IEC 60793-1-40	
		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 (vii) Sudden irregularity in attenuation IEC 60793-1-40	TEC GR No. TEC89010:2021
	Raw material for Manufacturing of Optical Fibre Cable	Cable Cut off Wavelength	
		Optical Fibre (ITU-T G.652.D) IEC 60793-1-44	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.655) IEC 60793-1-44	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.656) IEC 60793-1-44	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44	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	Fibre Cutoff Wavelength for Fibre used in Patch cords & Pig-tails	Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44
		Polarization Mode Dispersion for Uncabled Fiber	Optical Fibre (ITU-T G.652.D) IEC 60793-1-48
			Optical Fibre (ITU-T G.655) IEC 60793-1-48
			Optical Fibre (ITU-T G.656) IEC 60793-1-48
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48
		Polarization Mode Dispersion [Link design value for uncabled Fibre]	Optical Fibre (ITU-T G.652.D) IEC 60793-1-48
			Optical Fibre (ITU-T G.655) IEC 60793-1-48
			Optical Fibre (ITU-T G.656) IEC 60793-1-48
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48

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	Cable	Polarization Mode Dispersion [Link design value for uncabled Fibre]	Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48 TEC GR No. TEC89010:2021
		Zero Dispersion Slope	Optical Fibre (ITU-T G.652.D) IEC 60793-1-42 TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42 TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-42 TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42 TEC GR No. TEC89010:2021
		Zero Dispersion Wavelength range	Optical Fibre (ITU-T G.652.D) IEC 60793-1-42 TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42 TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-42 TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42 TEC GR No. TEC89010:2021
	Raw material for Manufacturing of Optical Fibre Cable	Fibre Macro bend loss	Optical Fibre (ITU-T G.652.D) IEC 60793-1-47 TEC GR No. TEC89010:2021
			(i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel.

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		Fibre Macro bend loss	(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.
		Optical Fibre (ITU-T G.655) IEC 60793-1-47	TEC GR No. TEC89010:2021
		(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.	
		Optical Fibre (ITU-T G.656) IEC 60793-1-47	TEC GR No. TEC89010:2021
		(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.	
	Raw material for Manufacturing of Optical Fibre Cable	Fibre Macro bend loss	Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47
		(i) Change in attenuation when	TEC GR No. TEC89010:2021

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		Fibre Macro bend loss	
		fibre is coiled with 10 turns on 15 mm radius mandrel. (ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.	
		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47 (i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel. (ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel. (iii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel.	TEC GR No. TEC89010:2021
	Raw material for Manufacturing of Optical Fibre Cable	Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47 (i) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel. (ii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel. (iii) Change in attenuation when fibre is coiled with 1 turn on	TEC GR No. TEC89010:2021

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s STL OF Quality Testing Laboratory, Aurangabad
E1 E2 E3, MIDC-Waluj, Aurangabad, Maharashtra- 431 136

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
		5 mm radius mandrel.	
		Peak Stripability	Optical Fibre (ITU-T G.652.D) IEC 60793-1-32
		Force to Remove	Optical Fibre (ITU-T G.655) IEC 60793-1-32
		Primary Coating of the fiber (Unaged, Water aged, Damp heat aged)	Optical Fibre (ITU-T G.656) IEC 60793-1-32
			Optical Fibre (ITU-T G.657.A1) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-32
			Optical Fibre (ITU-T G.657.A2) (i) 200 µm fibre (ii) 250 µm fibre IEC 60793-1-32
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-32
		Dynamic Tensile Strength (Unaged, Damp Heat aged)	Optical Fibre (ITU-T G.652.D) IEC 60793-1-31
			Optical Fibre (ITU-T G.655) IEC 60793-1-31
			Optical Fibre (ITU-T G.656) IEC 60793-1-31
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-31
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-31
	Raw material for Manufacturing of Optical Fibre Cable		

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
		Optical Fibre (ITU-T G.657.B3) IEC 60793-1-31	TEC GR No. TEC89010:2021
		Dynamic Fatigue (Unaged, Damp Heat aged)	
		Optical Fibre (ITU-T G.652.D) IEC 60793-1-33	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.655) IEC 60793-1-33	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.656) IEC 60793-1-33	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.A1) IEC 60793-1-33	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-33	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.B3) IEC 60793-1-33	TEC GR No. TEC89010:2021
		Fibre Curl	
		Optical Fibre (ITU-T G.652.D) IEC 60793-1-34	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.655) IEC 60793-1-34	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.656) IEC 60793-1-34	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.A1) IEC 60793-1-34	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.A2) IEC 60793-1-34	TEC GR No. TEC89010:2021
		Optical Fibre (ITU-T G.657.B3) IEC 60793-1-34	TEC GR No. TEC89010:2021
	Raw material for Manufacturing of Optical Fibre Cable		

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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	Operating Temperature/ Temperature Cycle Test/ Change of Temperature	Optical Fibre (ITU-T G.652.D) IEC 60793-1-52
			Optical Fibre (ITU-T G.655) IEC 60793-1-52
			Optical Fibre (ITU-T G.656) IEC 60793-1-52
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-52
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-52
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-52
		Temperature-Humidity Cycle Test	Optical Fibre (ITU-T G.652.D) EIA/TIA 455-73
			Optical Fibre (ITU-T G.655) EIA/TIA 455-73
			Optical Fibre (ITU-T G.656) EIA/TIA 455-73
			Optical Fibre (ITU-T G.657.A1) EIA/TIA 455-73
			Optical Fibre (ITU-T G.657.A2) EIA/TIA 455-73
			Optical Fibre (ITU-T G.657.B3) EIA/TIA 455-73
		Water Immersion	Optical Fibre (ITU-T G.652.D) IEC 60793-1-53

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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	Test at 23°C	Optical Fibre (ITU-T G.655)	TEC GR No. TEC89010:2021
			IEC 60793-1-53	
			Optical Fibre (ITU-T G.656)	TEC GR No. TEC89010:2021
			IEC 60793-1-53	
			Optical Fibre (ITU-T G.657.A1)	TEC GR No. TEC89010:2021
		Water Immersion Test at 23°C	IEC 60793-1-53	
			Optical Fibre (ITU-T G.657.A2)	TEC GR No. TEC89010:2021
			IEC 60793-1-53	
			Optical Fibre (ITU-T G.657.B3)	TEC GR No. TEC89010:2021
			IEC 60793-1-53	
		Accelerated Aging (Dry Heat) Test at 85°C	Optical Fibre (ITU-T G.652.D)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
			Optical Fibre (ITU-T G.655)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
			Optical Fibre (ITU-T G.656)	TEC GR No. TEC89010:2021
		Retention of Coating Color	IEC 60793-1-51	
			Optical Fibre (ITU-T G.657.A1)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
			Optical Fibre (ITU-T G.657.A2)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
			Optical Fibre (ITU-T G.657.B3)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
		Retention of Coating Color	Optical Fibre (ITU-T G.652.D)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
			Optical Fibre (ITU-T G.655)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
		Retention of Coating Color	Optical Fibre (ITU-T G.656)	TEC GR No. TEC89010:2021
			IEC 60793-1-51	
			Optical Fibre (ITU-T G.657.A1)	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
		Retention of Coating Color	Optical Fibre (ITU-T G.657.A1) IEC 60793-1-51	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-51	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-51	TEC GR No. TEC89010:2021
		High Temperature and High Humidity Test	Optical Fibre (ITU-T G.652.D) IEC 60793-2-50	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) IEC 60793-2-50	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.656) IEC 60793-2-50	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) IEC 60793-2-50	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-2-50	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-2-50	TEC GR No. TEC89010:2021

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