

**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE**
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001



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

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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
			Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC ER No. TEC70112401
		Cladding Non-Circularity	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
			Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC ER No. TEC70112401
		Core Clad Concentricity error	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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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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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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	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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	Optical Fibre (Single Mode)	Attenuation of Uncabled Fibre	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 ER No. TEC70112401
		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 60793-1-4	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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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	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-32	TEC ER No. TEC70112401
		Dynamic Tensile Strength (Unaged, Damp Heat aged)	Optical Fibre (ITU-T G.652.D) IEC 60793-1-31	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-31	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-31	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-31	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-31	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-31	TEC ER No. TEC70112401
		Dynamic Fatigue (Unaged, Damp Heat aged)	Optical Fibre (ITU-T G.652.D) IEC 60793-1-33	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-33	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.656) IEC 60793-1-33	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-33	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 Curl	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
			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)	Temperature-Humidity Cycle Test	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
			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°C	Optical Fibre (ITU-T G.652.D) IEC 60793-1-53	TEC ER No. TEC70112401
			Optical Fibre (ITU-T G.655) IEC 60793-1-53	TEC ER No. TEC70112401
		Water Immersion Test at 23°C	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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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)	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

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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 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	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	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
		Polarization Mode Dispersion for Uncabled Fiber	Optical Fibre (ITU-T G.652.D) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.656) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48	TEC GR No. TEC89010:2021
		Polarization Mode Dispersion [Link design value for uncabled Fibre]	Optical Fibre (ITU-T G.652.D) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.655) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.656) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48	TEC GR No. TEC89010:2021
			Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48	TEC GR No. TEC89010:2021

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	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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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	(ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel.	TEC GR No. TEC89010:2021
			(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 (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 (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.	TEC GR No. TEC89010:2021
		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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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
		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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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
	Raw material for Manufacturing of Optical Fibre Cable	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

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



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

Last Amended on: ---

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Raw material for Manufacturing of Optical Fibre Cable	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	
			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
			IEC 60793-1-51	

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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
		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

Digitally signed by
Rajeev Ranjan
AD/CA, TEC
Date: 25-07-2025
17:22:04

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