

**Government of India**  
**Telecommunication Engineering Centre**  
**Department of Telecommunication**  
**Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi – 110001.**

No. -1-84/2022-CA/TEC

Dated: 13.04.2023

**Addendum**

**Subject: Designation of M/s STL OF Quality Testing Laboratory, Aurangabad as Conformity Assessment Body (CAB).**


**Ref: 1. CAB Designation Certificate No. TEC/MRA/CAB/IND-D/82 dated 13.07.2022**

It is informed that the existing scope of Designation of M/s STL OF Quality Testing Laboratory, Aurangabad as CONFORMITY ASSESSMENT BODY (CAB) of TEC has been enhanced in respect of following test parameters on account of inclusion of these test parameters in its NABL Scope of Accreditation w.e.f. the date of issue of this Addendum:

| Sl. No. | Telecom Equipment/ Product  | Test Parameter or Type of Testing  | Standard/ Specification   |
|---------|-----------------------------|--|---------------------------|
| 1.      | Optical Fibre (Single Mode) | <b>Chromatic Dispersion</b><br>for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band | TEC ER No.<br>TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-42<br>(i) at 1530 to 1565 nm<br>(ii) at 1565 to 1625 nm<br>(iii) Dispersion slope at 1550 nm  | TEC ER No.<br>TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-42<br>(i) at 1460 to 1550 nm<br>(ii) at 1550 to 1625 nm<br>(iii) Dispersion slope at 1550 nm  | TEC ER No.<br>TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band                               | TEC ER No.<br>TEC70012008 |

|    |  |                             |  |                             |
|----|--|-----------------------------|--|-----------------------------|
|    | <b>Optical Fibre (Single Mode)</b>                           | <b>Chromatic Dispersion</b> | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band | TEC ER No.<br>TEC70012008   |
|    |  |                             | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band | TEC ER No.<br>TEC70012008   |
| 2. | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Chromatic Dispersion</b> | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band  | TEC GR No.<br>TEC89010:2021 |
|    |  |                             | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-42<br>(i) at 1530 to 1565 nm<br>(ii) at 1565 to 1625 nm<br>(iii) Dispersion slope at 1550 nm          | TEC GR No.<br>TEC89010:2021 |
|    |  |                             | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-42<br>(i) at 1460 to 1550 nm<br>(ii) at 1550 to 1625 nm<br>Dispersion slope at 1550 nm                | TEC GR No.<br>TEC89010:2021 |
|    |  |                             | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band | TEC GR No.<br>TEC89010:2021 |
|    |  |                             | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band | TEC GR No.<br>TEC89010:2021 |
|    |  |                             | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-42<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) in 1285-1330 nm band<br>(iv) in 1270-1340 nm band | TEC GR No.<br>TEC89010:2021 |

2. This letter is issued as Addendum to Certificate No. TEC/MRA/CAB/IND-D/82 dated 13.07.2022 for carrying out testing against standards as mentioned at Sl. No. 1 & 2 of Annexure to CAB Designation Certificate.
3. All other scope, terms and conditions and validity of the CAB Designation Certificate shall remain unchanged.
4. This is issued with the approval of Competent Authority.

  
13/04/23  
(S. K. Arya)  
Director (CA)  
For Designating Authority  
TEC, New Delhi

To,

**Shri Yogesh Pansare, Technical Manager  
M/s STL OF Quality Testing Laboratory  
E1 E2 E3, MIDC-Waluj, Aurangabad,  
Maharashtra- 431 136  
Mob: 9561407722,  
E-Mail: yogesh.pansare@stl.tech**



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ISO 9001:2015

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

## **CERTIFICATE OF DESIGNATION**

**M/s STL OF Quality Testing Laboratory**  
has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**E1 E2 E3, MIDC-Waluj, Aurangabad, Maharashtra- 431 136**

**In the field of Testing**

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

**Issue Date: 13/07/2022**

**Valid Until: 12/07/2025**

**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](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

**Prasanth Kumar**  
**Deputy Director General (MTCTE)**  
**For Designating Authority**  
**TEC**

Certificate No: TEC/MRA/CAB/IND-D/82 dated 13/07/2022 issued to  
M/s STL OF Quality Testing Laboratory  
E1 E2 E3, MIDC-Waluj, Aurangabad,  
Maharashtra- 431 136



Validity: - 13/07/2022 to 12/07/2025

### 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.

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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.



## SCOPE OF DESIGNATION (ANNEXURE)

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

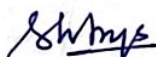
**Certificate Number:** TEC/MRA/CAB/IND-D/82

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**Validity:** 13/07/2022 to 12/07/2025

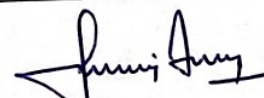
Last Amended on: \_\_\_\_

| 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)<br>IEC 60793-1-45  | TEC ER No. TEC70012008  |
|         |                             | for 1550 nm for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-45    | TEC ER No. TEC70012008  |
|         |                             | for 1550 nm for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-45    | TEC ER No. TEC70012008  |
|         |                             | for 1310 nm for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-45 | TEC ER No. TEC70012008  |
|         |                             | for 1310 nm for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-45 | TEC ER No. TEC70012008  |
|         |                             | for 1310 nm for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-45 | TEC ER No. TEC70012008  |



Director (CA), TEC

\*The validity of Certificate is up to 12/07/2025 or the continued validity of NABL Accreditation, whichever is earlier.



AD (CA), TEC

**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

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

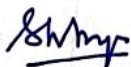
Certificate Number: TEC/MRA/CAB/IND-D/82

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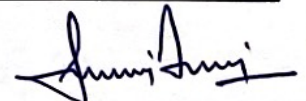
Validity: 13/07/2022 to 12/07/2025

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.652.D)<br>IEC 60793-1-20  | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-20    | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-20    | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             | Cladding Non-Circularity          | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-20  | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-20    | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-20    | TEC ER No.<br>TEC70012008 |



Director (CA), TEC



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Validity: 13/07/2022 to 12/07/2025

Last Amended on: \_\_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing | Standard/ Specification                              |                           |
|---------|-----------------------------|-----------------------------------|--|---------------------------|
|         | Optical Fibre (Single Mode) | Cladding Non-Circularity          | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             | Core Clad Concentricity error     | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-20  | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-20    | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-20    | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-20 | TEC ER No.<br>TEC70012008 |
|         |                             |                                   |  |                           |

  
Director (CA), TEC

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AD (CA), TEC

## SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name:** M/s STL OF Quality Testing Laboratory  
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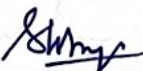
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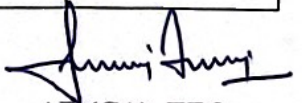
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| Sl. No. | Telecom Equipment/Product          | Test Parameter or Type of Testing      | Standard/ Specification   |                           |
|---------|------------------------------------|--|---|---------------------------|
|         | <b>Optical Fibre (Single Mode)</b> | <b>Coating/ Cladding Concentricity</b> | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                                    | <b>Coating Diameter</b>                | for Optical Fibre (ITU-T G.657.A1)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A2)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-21  | TEC ER No.<br>TEC70012008 |
|         |                                    | <b>Coating Diameter</b>                | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |

  
**Director (CA), TEC**

  
**AD (CA), TEC**

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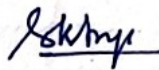
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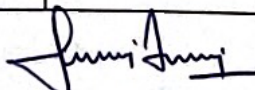
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| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing | Standard/ Specification   |                           |
|---------|-----------------------------|-----------------------------------|---|---------------------------|
|         | Optical Fibre (Single Mode) | Coating Diameter                  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A1)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A2)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21   | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-21  | TEC ER No.<br>TEC70012008 |
|         |                             | Attenuation of Uncabled Fibre     | for Optical Fibre (ITU-T G.652.D)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation<br>IEC 60793-1-40 | TEC ER No.<br>TEC70012008 |

  
**Director (CA), TEC**

  
**AD (CA), TEC**

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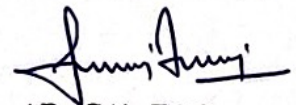
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| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing | Standard/ Specification  |                           |
|---------|-----------------------------|-----------------------------------|--|---------------------------|
| 2.      | Optical Fibre (Single Mode) | Attenuation of Uncabled Fibre     | for Optical Fibre (ITU-T G.655)<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) Sudden irregularity in attenuation<br>IEC 60793-1-40   | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.656)<br>(i) at 1460 nm<br>(ii) at 1550 nm<br>(iii) at 1625 nm<br>(iv) at 1383 nm<br>(v) Sudden irregularity in attenuation<br>IEC 60793-1-40  | TEC ER No.<br>TEC70012008 |
|         |                             |                                   | for Optical Fibre (ITU-T G.657.A1)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation<br>IEC 60793-1-40 | TEC ER No.<br>TEC70012008 |

  
Director (CA), TEC

  
AD (CA), TEC

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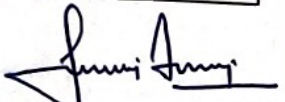
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|---------|-----------------------------|---|---|------------------------|
|         | Optical Fibre (Single Mode) | Attenuation of Uncabled Fibre   | for Optical Fibre (ITU-T G.657.A2)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation IEC 60793-1-40 | TEC ER No. TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.657.B3)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation IEC 60793-1-40 | TEC ER No. TEC70012008  |                        |

  
Director (CA), TEC  
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## SCOPE OF DESIGNATION (ANNEXURE)

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

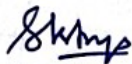
**Certificate Number:** TEC/MRA/CAB/IND-D/82

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**Validity:** 13/07/2022 to 12/07/2025

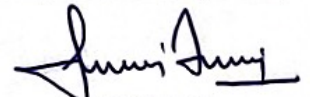
Last Amended on: \_\_\_

| Sl. No. | Telecom Equipment/Product          | Test Parameter or Type of Testing  | Standard/ Specification                              |                           |
|---------|------------------------------------|--|--|---------------------------|
|         | <b>Optical Fibre (Single Mode)</b> | <b>Cable Cut off Wavelength</b>  | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-44  | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-44    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-44    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-44 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-4  | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-44 | TEC ER No.<br>TEC70012008 |
|         |                                    | <b>Fibre Cutoff Wavelength for Fibre used in Patch cords &amp; Pig-tails</b> | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-44 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-44 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-44 | TEC ER No.<br>TEC70012008 |



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**Laboratory Name:** M/s STL OF Quality Testing Laboratory  
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Maharashtra- 431 136

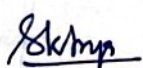
**Certificate Number:** TEC/MRA/CAB/IND-D/82

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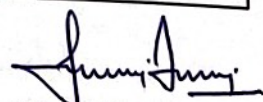
**Validity:** 13/07/2022 to 12/07/2025

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing                                    | Standard/ Specification                              |                           |
|---------|-----------------------------|--|--|---------------------------|
|         | Optical Fibre (Single Mode) | Polarization Mode Dispersion for Uncabled Fiber                      | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-48  | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-48    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-48    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-48 | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-48 | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-48 | TEC ER No.<br>TEC70012008 |
|         |                             | Polarization Mode Dispersion [Link design value for un-cabled Fibre] | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-48  | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-48    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-48    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-48 | TEC ER No.<br>TEC70012008 |

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


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

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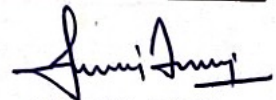
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Last Amended on: \_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing                                    | Standard/ Specification   |
|---------|-----------------------------|--|---|
|         | Optical Fibre (Single Mode) | Polarization Mode Dispersion [Link design value for un-cabled Fibre] | for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48<br>TEC ER No. TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48<br>TEC ER No. TEC70012008 |
|         |                             | Zero Dispersion Slope  | for Optical Fibre (ITU-T G.652.D) IEC 60793-1-42<br>TEC ER No. TEC70012008  |
|         |                             |  | for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42<br>TEC ER No. TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-42<br>TEC ER No. TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42<br>TEC ER No. TEC70012008 |

  
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**Laboratory Name:** M/s STL OF Quality Testing Laboratory  
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 Maharashtra- 431 136


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**Validity:** 13/07/2022 to 12/07/2025

Last Amended on: \_\_\_\_

| Sl. No. | Telecom Equipment/Product          | Test Parameter or Type of Testing       | Standard/ Specification   |                           |
|---------|------------------------------------|---|---|---------------------------|
|         | <b>Optical Fibre (Single Mode)</b> | <b>Zero Dispersion Wavelength range</b> | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-42   | TEC ER No.<br>TEC70012008 |
|         |                                    |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-42  | TEC ER No.<br>TEC70012008 |
|         |                                    |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-42  | TEC ER No.<br>TEC70012008 |
|         |                                    |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-42  | TEC ER No.<br>TEC70012008 |
|         |                                    | <b>Fibre Macro bend loss</b>            | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel.<br><br>(iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel. | TEC ER No.<br>TEC70012008 |

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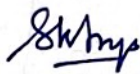
Certificate Number: TEC/MRA/CAB/IND-D/82

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Validity: 13/07/2022 to 12/07/2025

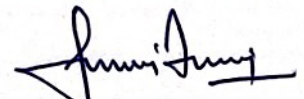
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| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing | Standard/ Specification  |                           |
|---------|-----------------------------|-----------------------------------|--|---------------------------|
|         | Optical Fibre (Single Mode) | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn around 32 ±0.5 mm diameter mandrel.  | TEC ER No.<br>TEC70012008 |
|         |                             | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel. | TEC ER No.<br>TEC70012008 |



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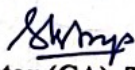
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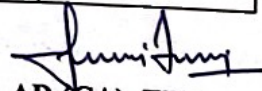
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Last Amended on: \_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing | Standard/ Specification  |                        |
|---------|-----------------------------|-----------------------------------|--|------------------------|
|         | Optical Fibre (Single Mode) | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.   | TEC ER No. TEC70012008 |
|         |                             | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.<br><br>(iii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel. | TEC ER No. TEC70012008 |

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

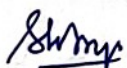
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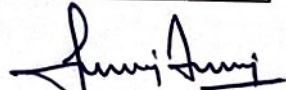
Validity: 13/07/2022 to 12/07/2025

Last Amended on: \_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing   | Standard/ Specification   |                        |
|---------|-----------------------------|---|---|------------------------|
|         | Optical Fibre (Single Mode) | Fibre Macro bend loss   | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.<br>(ii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel.<br>(iii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel. | TEC ER No. TEC70012008 |
|         |                             | 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  | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.655) IEC 60793-1-32  | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.656) IEC 60793-1-32  | TEC ER No. TEC70012008 |

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

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

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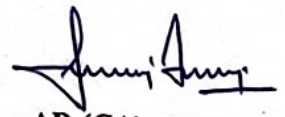
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Last Amended on: \_\_\_\_

| 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.657.A1)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-32 | TEC ER No.<br>TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.657.A2)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-32 | TEC ER No.<br>TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-32  | TEC ER No.<br>TEC70012008 |
|         |                             | Dynamic Tensile Strength (Unaged, Damp Heat aged)   | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-31   | TEC ER No.<br>TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-31   | TEC ER No.<br>TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-31   | TEC ER No.<br>TEC70012008 |

  
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E1 E2 E3, MIDC-Waluj, Aurangabad,  
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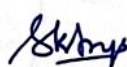
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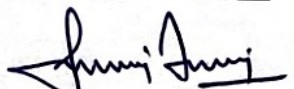
**Page 16 of 40**

**Validity:** 13/07/2022 to 12/07/2025

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product          | Test Parameter or Type of Testing                        | Standard/ Specification                              |                           |
|---------|------------------------------------|--|--|---------------------------|
|         | <b>Optical Fibre (Single Mode)</b> | <b>Dynamic Tensile Strength (Unaged, Damp Heat aged)</b> | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-31 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-31 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-31 | TEC ER No.<br>TEC70012008 |
|         |                                    | <b>Dynamic Fatigue (Unaged, Damp Heat aged)</b>          | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-33  | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-33    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-33    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-33 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-33 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-33 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-33 | TEC ER No.<br>TEC70012008 |

  
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**Laboratory Name:** M/s STL OF Quality Testing Laboratory  
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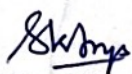
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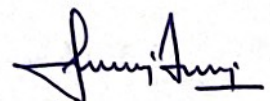
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| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing  | Standard/ Specification                              |                           |
|---------|-----------------------------|--|--|---------------------------|
|         | Optical Fibre (Single Mode) | Fibre Curl   | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-34  | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-34    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-34    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-34 | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-34 | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-34 | TEC ER No.<br>TEC70012008 |
|         |                             | Operating Temperature/<br>Temperature Cycle Test/<br>Change of Temperature | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-52  | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-52    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-52    | TEC ER No.<br>TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-52 | TEC ER No.<br>TEC70012008 |



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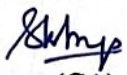
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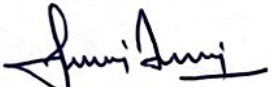
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Last Amended on: \_\_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing                                    | Standard/ Specification                           |                        |
|---------|-----------------------------|--|---|------------------------|
|         | Optical Fibre (Single Mode) | Operating Temperature/ Temperature Cycle Test/ Change of Temperature | for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-52 | TEC ER No. TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-52                    | TEC ER No. TEC70012008                            |                        |
|         |                             | Temperature-Humidity Cycle Test                                      | for Optical Fibre (ITU-T G.652.D) EIA/TIA 455-73  | TEC ER No. TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.655) EIA/TIA 455-73    | TEC ER No. TEC70012008 |
|         |                             |  | for Optical Fibre (ITU-T G.656) EIA/TIA 455-73    | TEC ER No. TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.657.A1) EIA/TIA 455-73                    | TEC ER No. TEC70012008                            |                        |
|         |                             | for Optical Fibre (ITU-T G.657.A2) EIA/TIA 455-73                    | TEC ER No. TEC70012008                            |                        |
|         |                             | for Optical Fibre (ITU-T G.657.B3) EIA/TIA 455-73                    | TEC ER No. TEC70012008                            |                        |

  
Director (CA), TEC

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

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

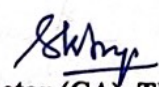
**Certificate Number:** TEC/MRA/CAB/IND-D/82

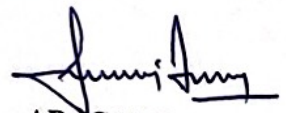
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**Validity:** 13/07/2022 to 12/07/2025

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product          | Test Parameter or Type of Testing                | Standard/ Specification                              |                           |
|---------|------------------------------------|--|--|---------------------------|
|         | <b>Optical Fibre (Single Mode)</b> | <b>Water Immersion Test at 23°C</b>              | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-53  | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-53    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-53    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-53 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-53 | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-53 | TEC ER No.<br>TEC70012008 |
|         |                                    | <b>Accelerated Aging (Dry Heat) Test at 85°C</b> | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-51  | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-51    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-51    | TEC ER No.<br>TEC70012008 |
|         |                                    |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-51 | TEC ER No.<br>TEC70012008 |

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

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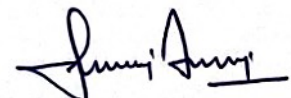
Validity: 13/07/2022 to 12/07/2025

Last Amended on: \_\_\_\_

| 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 | for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-51 | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-51 | TEC ER No. TEC70012008 |
|         |                             | Retention of Coating Color                | for Optical Fibre (ITU-T G.652.D) IEC 60793-1-51  | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.655) IEC 60793-1-51    | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.656) IEC 60793-1-51    | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-51 | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-51 | TEC ER No. TEC70012008 |
|         |                             |   | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-51 | TEC ER No. TEC70012008 |

  
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Maharashtra- 431 136

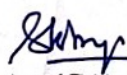
Certificate Number: TEC/MRA/CAB/IND-D/82

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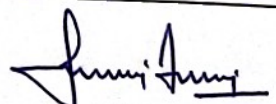
Validity: 13/07/2022 to 12/07/2025

Last Amended on: \_\_\_\_

| Sl. No. | Telecom Equipment/Product   | Test Parameter or Type of Testing                    | Standard/ Specification                             |                           |
|---------|-----------------------------|--|---|---------------------------|
|         | Optical Fibre (Single Mode) | High Temperature and High Humidity Test              | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-2-50 | TEC ER No.<br>TEC70012008 |
|         |                             | for Optical Fibre (ITU-T G.655)<br>IEC 60793-2-50    | TEC ER No.<br>TEC70012008                           |                           |
|         |                             | for Optical Fibre (ITU-T G.656)<br>IEC 60793-2-50    | TEC ER No.<br>TEC70012008                           |                           |
|         |                             | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-2-50 | TEC ER No.<br>TEC70012008                           |                           |
|         |                             | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-2-50 | TEC ER No.<br>TEC70012008                           |                           |
|         |                             | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-2-50 | TEC ER No.<br>TEC70012008                           |                           |

  
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Validity: 13/07/2022 to 12/07/2025

Last Amended on: \_\_\_

| Sl. No. | Telecom Equipment/Product                             | Test Parameter or Type of Testing | Standard/ Specification  |                             |
|---------|---|-----------------------------------|--|-----------------------------|
| 2.      | Raw material for Manufacturing of Optical Fibre Cable | Mode Field Diameter               | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-2-50              | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for 1550 nm for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-45    | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for 1550 nm for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-45    | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for 1310 nm for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-45 | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for 1310 nm for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-45 | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for 1310 nm for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-45 | TEC GR No.<br>TEC89010:2021 |
|         |   | Cladding Diameter                 | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-20              | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-20                | TEC GR No.<br>TEC89010:2021 |

  
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Maharashtra- 431 136**

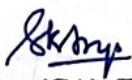
**Certificate Number: TEC/MRA/CAB/IND-D/82**

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**Validity: 13/07/2022 to 12/07/2025**

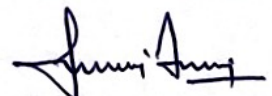
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| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing | Standard/ Specification                               |                             |
|---------|--|-----------------------------------|---|-----------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Cladding Diameter</b>          | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-20     | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-20  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-20  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-20  | TEC GR No.<br>TEC89010:2021 |
|         |  | <b>Cladding Non-Circularity</b>   | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-20   | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-20     | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | (c) for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-20 | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-20  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-20  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-20  | TEC GR No.<br>TEC89010:2021 |



**Director (CA), TEC**

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

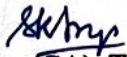
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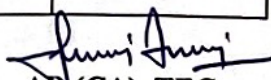
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**Validity:** 13/07/2022 to 12/07/2025

**Last Amended on:** \_\_\_\_

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

  
**Director (CA), TEC**

  
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 E1 E2 E3, MIDC-Waluj, Aurangabad,  
 Maharashtra- 431 136


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

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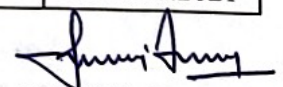
**Validity:** 13/07/2022 to 12/07/2025

**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/ Cladding Concentricity   | for Optical Fibre (ITU-T G.657.A2)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21 | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-21  | TEC GR No.<br>TEC89010:2021 |
|         |   | Coating Diameter                  | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-21   | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-21   | TEC GR No.<br>TEC 9010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-21   | TEC GR No.<br>TEC 9010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.657.A1)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21 | TEC GR No.<br>TEC89010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.657.A2)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-21 | TEC GR No.<br>TEC 9010:2021 |
|         |   |                                   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-21  | TEC GR No.<br>TEC 9010:2021 |

  
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**Validity:** 13/07/2022 to 12/07/2025

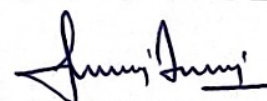
**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing    | Standard/ Specification   |                             |
|---------|--|--------------------------------------|---|-----------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Attenuation of Uncabled Fibre</b> | for Optical Fibre (ITU-T G.652.D)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation<br>IEC 60793-1-40 | TEC GR No.<br>TEC89010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.655)<br>(i) at 1550 nm<br>(ii) at 1625 nm<br>(iii) Sudden irregularity in attenuation<br>IEC 60793-1-40  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.656)<br>(i) at 1460 nm<br>(ii) at 1550 nm<br>(iii) at 1625 nm<br>(iv) at 1383 nm<br>(v) Sudden irregularity in attenuation<br>IEC 60793-1-40   | TEC GR No.<br>TEC89010:2021 |



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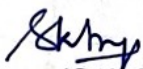
Certificate Number: TEC/MRA/CAB/IND-D/82

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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 of Uncabled Fibre  | for Optical Fibre (ITU-T G.657.A1)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation<br>IEC 60793-1-40 | TEC GR No.<br>TEC89010:2021 |
|         |   | for Optical Fibre (ITU-T G.657.A2)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation<br>IEC 60793-1-40 | TEC GR No.<br>TEC89010:2021  |                             |

  
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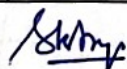
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**Validity:** 13/07/2022 to 12/07/2025

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing    | Standard/ Specification  |                             |
|---------|--|--------------------------------------|--|-----------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Attenuation of Uncabled Fibre</b> | for Optical Fibre (ITU-T G.657.B3)<br>(i) at 1310 nm<br>(ii) at 1550 nm<br>(iii) at 1490 nm<br>(iv) at 1270 nm<br>(v) at 1625 nm<br>(vi) water peak attenuation at 1380 to 1390 nm<br>(vii) Sudden irregularity in attenuation<br>IEC 60793-1-40 | TEC GR No.<br>TEC89010:2021 |
|         |  | <b>Cable Cut off Wavelength</b>      | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-44  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-44  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-44  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-44   | TEC GR No.<br>TEC 9010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-4  | TEC GR No.<br>TEC89010:2021 |
|         |  |                                      | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-44   | TEC GR No.<br>TEC89010:2021 |

  
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Maharashtra- 431 136

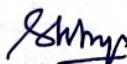
**Certificate Number:** TEC/MRA/CAB/IND-D/82

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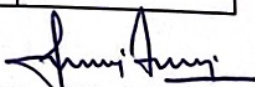
**Validity:** 13/07/2022 to 12/07/2025

**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 Cutoff Wavelength for Fibre used in Patch cords & Pig-tails | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-44 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-44 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-44 | TEC GR No.<br>TEC89010:2021 |
|         |   | Polarization Mode Dispersion for Uncabled Fiber                   | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-48  | TEC GR No.<br>TEC 9010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-48    | TEC GR No.<br>TEC 9010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-48    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-48 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-48 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-48 | TEC GR No.<br>TEC89010:2021 |
|         |   |   |  |                             |

  
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## SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name:** M/s STL OF Quality Testing Laboratory  
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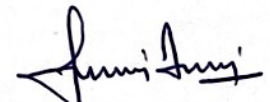
**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing   | Standard/ Specification                              |                             |
|---------|--|---|--|-----------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Polarization Mode Dispersion [Link design value for un-cabled Fibre]</b> | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-48  | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-48    | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-48    | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-48 | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-48 | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-48 | TEC GR No.<br>TEC89010:2021 |
|         |  | <b>Zero Dispersion Slope</b>  | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-42  | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-42 | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-42 | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-42 | TEC GR No.<br>TEC89010:2021 |



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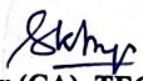
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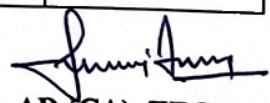
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| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing   | Standard/ Specification  |                             |
|---------|--|---|--|-----------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Zero Dispersion Wavelength range</b>   | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-42  | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-42   | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-42   | TEC GR No.<br>TEC89010:2021 |
|         |  |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-42   | TEC GR No.<br>TEC89010:2021 |
|         |  | <b>Fibre Macro bend loss</b>  | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-47  | TEC GR No.<br>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. |                             |
|         |  | (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel. |  |                             |

  
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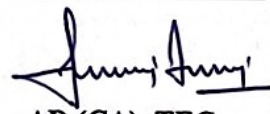
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Last Amended on: \_\_\_\_

| Sl. No. | Telecom Equipment/Product                             | Test Parameter or Type of Testing | Standard/ Specification  |                             |
|---------|---|-----------------------------------|--|-----------------------------|
|         | Raw material for Manufacturing of Optical Fibre Cable | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-47<br>(i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel.<br><br>(ii) Change in attenuation when fiber is coiled with 1 turn around 32 ±0.5 mm diameter mandrel.  | TEC GR No.<br>TEC89010:2021 |
|         |   | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-47<br>(i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel.<br><br>(ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel. | TEC GR No.<br>TEC89010:2021 |

  
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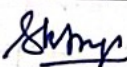
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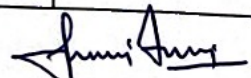
Validity: 13/07/2022 to 12/07/2025

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 Macro bend loss             | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.   | TEC GR No.<br>TEC89010:2021 |
|         |   | Fibre Macro bend loss             | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.<br><br>(iii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel. | TEC GR No.<br>TEC89010:2021 |

  
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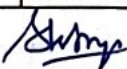
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| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing  | Standard/ Specification   |                          |
|---------|--|--|---|--------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Fibre Macro bend loss</b>   | for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47<br>(i) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel.<br><br>(ii) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel.<br><br>(iii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel. | TEC GR No. TEC89010:2021 |
|         |  | <b>Peak Stripability</b>   | for Optical Fibre (ITU-T G.652.D) IEC 60793-1-32  | TEC GR No. TEC89010:2021 |
|         |  | <b>Force to Remove Primary Coating of the fiber (Unaged, Water aged, Damp heat aged)</b> | for Optical Fibre (ITU-T G.655) IEC 60793-1-32  | TEC GR No. TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.656) IEC 60793-1-32  | TEC GR No. TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.657.A1)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-32   | TEC GR No. TEC89010:2021 |

  
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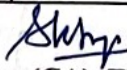
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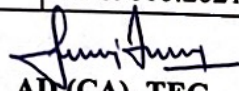
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| Sl. No. | Telecom Equipment/Product                             | Test Parameter or Type of Testing   | Standard/ Specification   |  |
|---------|---|---|---|--|
|         | Raw material for Manufacturing of Optical Fibre Cable | Peak Stripability Force to Remove Primary Coating of the fiber (Unaged, Water aged, Damp heat aged) | for Optical Fibre (ITU-T G.657.A2)<br>(i) 200 µm fibre<br>(ii) 250 µm fibre<br>IEC 60793-1-32<br><br>for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-32 | TEC GR No.<br>TEC89010:2021<br><br>TEC GR No.<br>TEC89010:2021 |
|         |   | Dynamic Tensile Strength (Unaged, Damp Heat aged)   | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-31   | TEC GR No.<br>TEC89010:2021                                    |
|         |   |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-31   | TEC GR No.<br>TEC89010:2021                                    |
|         |   |   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-31   | TEC GR No.<br>TEC89010:2021                                    |
|         |   |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-31  | TEC GR No.<br>TEC89010:2021                                    |
|         |   |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-31  | TEC GR No.<br>TEC89010:2021                                    |
|         |   |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-31  | TEC GR No.<br>TEC89010:2021                                    |

  
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**Laboratory Name:** M/s STL OF Quality Testing Laboratory  
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| Sl. No. | Telecom Equipment/Product                                    | Test Parameter or Type of Testing                | Standard/ Specification                              |                             |
|---------|--|--|--|-----------------------------|
|         | <b>Raw material for Manufacturing of Optical Fibre Cable</b> | <b>Dynamic Fatigue (Unaged , Damp Heat aged)</b> | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-33  | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-33    | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-33    | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-33 | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-33 | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-33 | TEC GR No.<br>TEC89010:2021 |
|         |  | <b>Fibre Curl</b>                                | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-34  | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-34    | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-34    | TEC GR No.<br>TEC89010:2021 |
|         |  |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-34 | TEC GR No.<br>TEC89010:2021 |

  
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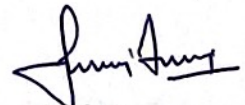
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| Sl. No. | Telecom Equipment/Product                             | Test Parameter or Type of Testing  | Standard/ Specification                              |                             |
|---------|---|--|--|-----------------------------|
|         | Raw material for Manufacturing of Optical Fibre Cable | Fibre Curl   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-34 | TEC GR No.<br>TEC89010:2021 |
|         |   |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-34 | TEC GR No.<br>TEC89010:2021 |
|         |   | Operating Temperature/<br>Temperature<br>Cycle Test/<br>Change of<br>Temperature | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-52  | TEC GR No.<br>TEC89010:2021 |
|         |   |  | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-52    | TEC GR No.<br>TEC89010:2021 |
|         |   |  | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-52    | TEC GR No.<br>TEC89010:2021 |
|         |   |  | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-52 | TEC GR No.<br>TEC89010:2021 |
|         |   |  | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-52 | TEC GR No.<br>TEC89010:2021 |
|         |   |  | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-52 | TEC GR No.<br>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 | Temperature -Humidity Cycle Test          | for Optical Fibre (ITU-T G.652.D)<br>EIA/TIA 455-73  | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.655)<br>EIA/TIA 455-73    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.656)<br>EIA/TIA 455-73    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A1)<br>EIA/TIA 455-73 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A2)<br>EIA/TIA 455-73 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.B3)<br>EIA/TIA 455-73 | TEC GR No.<br>TEC89010:2021 |
|         |   | Water Immersion Test at 23 <sup>0</sup> C | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-53  | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-53    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-53    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-53 | TEC GR No.<br>TEC89010:2021 |

  
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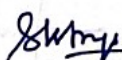
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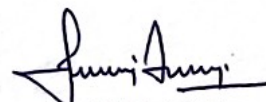
**Last Amended on:** \_\_\_

| Sl. No. | Telecom Equipment/Product                             | Test Parameter or Type of Testing         | Standard/ Specification                              |                             |
|---------|---|---|--|-----------------------------|
|         | Raw material for Manufacturing of Optical Fibre Cable | Water Immersion Test at 23°C              | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-53 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-53 | TEC GR No.<br>TEC89010:2021 |
|         |   | Accelerated Aging (Dry Heat) Test at 85°C | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-51  | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-51    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.656)<br>IEC 60793-1-51    | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A1)<br>IEC 60793-1-51 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.A2)<br>IEC 60793-1-51 | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.657.B3)<br>IEC 60793-1-51 | TEC GR No.<br>TEC89010:2021 |
|         |   | Retention of Coating Color                | for Optical Fibre (ITU-T G.652.D)<br>IEC 60793-1-51  | TEC GR No.<br>TEC89010:2021 |
|         |   |   | for Optical Fibre (ITU-T G.655)<br>IEC 60793-1-51    | TEC GR No.<br>TEC89010:2021 |



Director (CA), TEC

\*The validity of Certificate is up to 12/07/2025 or the continued validity of NABL Accreditation, whichever is earlier.



AD (CA), TEC

## SCOPE OF DESIGNATION (ANNEXURE)

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

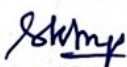
**Certificate Number:** TEC/MRA/CAB/IND-D/82

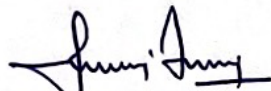
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**Validity:** 13/07/2022 to 12/07/2025

**Last Amended on:** \_\_\_\_

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

  
**Director (CA), TEC**

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 12/07/2025 or the continued validity of NABL Accreditation, whichever is earlier.**