



# GOVERNMENT OF INDIA MINISTRY OF COMMUNICATIONS DEPARTMENT OF TELECOMMUNICATIONS TELECOMMUNICATION ENGINEERING CENTRE

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001

### **CERTIFICATE OF DESIGNATION**

M/s West Coast Optilinks (A division of West Coast Paper Mills Limited)-OFC- Quality Assurance Laboratory, Mysore

has been assessed and designated as Conformity Assessment Body (CAB) for its facilities at

Plot No. 386 & 387, KIADB Electronic City, Hebbal Industrial Area, Mysore Karnataka- 570 016

### In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/101

Issue Date: 16/08/2024 Validity: 16/08/2024 to 15/08/2027

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

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

Signed for and on behalf of TEC

Sanjeev Kumar Arya Director (CA) For Designating Authority TEC

Certificate No: TEC/MRA/CAB/IND-D/101 dated 16/08/2024 issued to

M/s West Coast Optilinks (A division of West Coast Paper Mills Limited)-OFC- Quality Assurance Laboratory, Mysore Plot No. 386 & 387, KIADB Electronic City,



Hot No. 386 & 387, KIADB Electronic City, Hebbal Industrial Area, Mysore Karnataka- 570 016

Validity: -16/08/2024 to 15/08/2027

#### **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 3 NO. TEC 04019:2023.

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.

<sup>\*</sup>Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

- 9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence
  - a) Cessation of its business of conformity assessment for which it is Designated or accredited
  - b) Changes in its legal, commercial, or Organisational status
  - c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
  - d) Change of premises

#### **B.** REFERENCE TO DESIGNATION STATUS

- 1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
- 2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
- 3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

#### C. POST-DESIGNATION SURVEILLANCE

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

#### D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

- 1. DA shall suspend or withdraw the designation of a CAB if
  - a. Its accreditation is withdrawn.
  - b. It is found that the CAB is not complying with the stipulated criteria or requirements.
  - c. It is guilty of any offence involving fraud or dishonesty.
  - d. DA concludes that there is a just cause for withdrawing the designation.
- 2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
- 3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

#### E. AMENDMENT TO THE SCHEME

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

### GOVERNMENT OF INDIA MINISTRY OF COMMUNICATIONS DEPARTMENT OF TELECOMMUNICATIONS TELECOMMUNICATION ENGINEERING CENTRE



Standard/

Gate No. 5, KhurshidLalBhawan, Janpath, New Delhi - 110 001

### SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s West Coast Optilinks (A division of West Coast Paper Mills

Limited)- OFC- Quality Assurance Laboratory, Mysore

Plot No. 386 & 387, KIADB Electronic City,

Hebbal Industrial Area, Mysore Karnataka- 570 016

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**Test Parameter or Type of Testing** 

Sl. Telecom

No.	Equipment /Product	Test I al ameter	or Type or Testing	Specification
1	Optical Fibre Cable-	Transmission Characteristics	Attenuation at 1310 nm IEC 60793-1-40	TEC ER No. TEC 70022401
	Duct		Attenuation at 1550 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			Attenuation at 1625 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			PMD Cabled Loose Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
			PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
		Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401
			Crush Resistance IEC 60794-1-21	TEC ER No. TEC 70022401
			Impact IEC 60794-1-21	TEC ER No. TEC 70022401
			Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Repeated Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Torsion Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Cable Drip Test IEC 60794-1-22	TEC ER No. TEC 70022401
		Environmental Characteristics	Temperature Cycling IEC 60794-1-22	TEC ER No. TEC 70022401

<sup>\*</sup>The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.

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Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment		Specification
	/Product		

Optical	Environmental	Cable Aging Test	TEC ER No.
Fibre Cable-	Characteristics	IEC 60794-1-22	TEC 70022401
Duct			
		Water Blocking Test/Water Penetration	TEC ER No.
		Test	TEC 70022401
		IEC 60794-1-22	
		Electrical Continuity Test	TEC ER No.
		IEC 60794-1-24	TEC 70022401
	Characteristics	Kink Resistance Test	TEC ER No.
	of Cable	IEC 60794-1-23	TEC 70022401
	Elements		
	(Buffer Tube)		
	Characteristics	Ribbon Dimension	TEC ER No.
	of Cable	IEC 60794-1-23	TEC 70022401
	Elements	Separability of Individual Fibres from	TEC ER No.
	(Ribboned	Ribbon	TEC 70022401
	Fibre)	IEC 60794-1-23	
		Ribbon Twist Test	TEC ER No.
		IEC 60794-1-23	TEC 70022401
		Ribbon Torsion Resistance	TEC ER No.
		IEC 60794-1-31	TEC 70022401
<b>Optical Fibre</b>	Transmission	Attenuation at 1310 nm	TEC ER No.
Cable-Micro	Characteristics	IEC 60793-1-40	TEC 70022401
Duct		Attenuation at 1550 nm	TEC ER No.
		IEC 60793-1-40	TEC 70022401
		Attenuation at 1625 nm	TEC ER No.
		IEC 60793-1-40	TEC 70022401

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Test Parameter or Type of Testing

Sl. Telecom

No.	Equipment /Product	Test rarameter	or Type of Testing	Specification
	Optical Fibre	Transmission	PMD Cabled Loose Fibre	TEC ER No.
	Cable-Micro	Characteristics	IEC 60793-1-48	TEC 70022401
	Duct		PMD Cabled Ribbon Fibre	TEC ER No.
			IEC 60793-1-48	TEC 70022401
		Mechanical	Tensile Strength	TEC ER No.
		Characteristics	IEC 60794-1-21	TEC 70022401
			Crush Resistance	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Impact	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Bend Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Repeated Bend Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Torsion Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Cable Drip Test	TEC ER No.
			IEC 60794-1-22	TEC 70022401
		Environmental	Temperature Cycling	TEC ER No.
		Characteristics	IEC 60794-1-22	TEC 70022401
			Cable Aging Test	TEC ER No.
			IEC 60794-1-22	TEC 70022401

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Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment		Specification
	/Product		

Optical	Environmental	Water Blocking Test /Water	TEC ER No.
Fibre Cable-	Characteristics	Penetration Test	TEC 70022401
Micro Duct		IEC 60794-1-22	
	Characteristics	Kink Resistance Test	TEC ER No.
	of Cable	IEC 60794-1-23	TEC 70022401
	Elements		
	(Buffer Tube)		
	Characteristics	Ribbon Dimension	TEC ER No.
	of Cable	IEC 60794-1-23	TEC 70022401
	Elements	Separability of Individual Fibres from	TEC ER No.
	(Ribboned	Ribbon	TEC 70022401
	Fibre)	IEC 60794-1-23	
		Ribbon Twist Test	TEC ER No.
		IEC 60794-1-23	TEC 70022401
		Ribbon Torsion Resistance	TEC ER No.
		IEC 60794-1-31	TEC 70022401
<b>Optical Fibre</b>	Transmission	Attenuation at 1310 nm	TEC ER No.
<b>Cable-Direct</b>	Characteristics	IEC 60793-1-40	TEC 70022401
Buried		Attenuation at 1550 nm	TEC ER No.
		IEC 60793-1-40	TEC 70022401
		Attenuation at 1625 nm	TEC ER No.
		IEC 60793-1-40	TEC 70022401
		PMD Cabled Loose Fibre	TEC ER No.
		IEC 60793-1-48	TEC 70022401

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**Test Parameter or Type of Testing** 

Sl. Telecom

No.	Equipment /Product	1 cst 1 arameter	or Type or Testing	Specification Specification
	Optical Fibre Cable-Direct	Transmission Characteristics	PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
	Buried	Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401
			Crush Resistance IEC 60794-1-21	TEC ER No. TEC 70022401
			Impact IEC 60794-1-21	TEC ER No. TEC 70022401
			Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Repeated Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Torsion Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Cable Drip Test IEC 60794-1-22	TEC ER No. TEC 70022401
		<b>Environmental Characteristics</b>	Temperature Cycling IEC 60794-1-22	TEC ER No. TEC 70022401
			Cable Aging Test IEC 60794-1-22	TEC ER No. TEC 70022401
			Water Blocking Test/Water Penetration Test IEC 60794-1-22	TEC ER No. TEC 70022401
			Electrical Continuity Test IEC 60794-1-24	TEC ER No. TEC 70022401

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Test Parameter or Type of Testing

Sl. Telecom

No.	Equipment /Product	1 est Parameter	or Type of Testing	Standard/ Specification
	Optical Fibre Cable-Direct Buried	Characteristics of Cable Elements (Buffer Tube)	Kink Resistance Test IEC 60794-1-23	TEC ER No. TEC 70022401
		Characteristics of Cable	Ribbon Dimension IEC 60794-1-23	TEC ER No. TEC 70022401
		Elements (Ribboned Fibre)	Separability of Individual Fibres from Ribbon IEC 60794-1-23	TEC ER No. TEC 70022401
			Ribbon Twist Test IEC 60794-1-23	TEC ER No. TEC 70022401
			Ribbon Torsion Resistance IEC 60794-1-31	TEC ER No. TEC 70022401
	Optical Fibre Cable-ADSS	Transmission Characteristics	Attenuation at 1310 nm IEC 60793-1-40	TEC ER No. TEC 70022401
	along Power Line		Attenuation at 1550 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			Attenuation at 1625 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			PMD Cabled Loose Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
			PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
		Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401

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Validity: 16/08/2024 to 15/08/2027 Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter	or Type of Testing	Standard/ Specification
	Optical Fibre Cable- ADSS along Power Line	Mechanical Characteristics	Crush Resistance IEC 60794-1-21 Impact IEC 60794-1-21 Bend Test IEC 60794-1-21 Repeated Bend Test IEC 60794-1-21 Torsion Test	TEC ER No. TEC 70022401 TEC ER No.
		Environmental	IEC 60794-1-21 Cable Drip Test IEC 60794-1-22 Galloping Test IEC 60794-1-21, IEEE 1222 Temperature Cycling	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No.
		Characteristics	IEC 60794-1-22 Cable Aging Test IEC 60794-1-22 Water Blocking Test/Water Penetration Test IEC 60794-1-22	TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
		Characteristics of Cable Elements (Buffer Tube)	Kink Resistance Test IEC 60794-1-23	TEC ER No. TEC 70022401

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### SCOPE OF DESIGNATION (ANNEXURE)

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Certificate Number: TEC/MRA/CAB/IND-D/101 Page 8 of 18

Test Parameter or Type of Testing

Sl. Telecom

No.	Equipment /Product	Test Parameter	or Type of Testing	Specification
	Optical Fibre Cable- ADSS along Power Line	Characteristics of Cable Elements (Ribboned Fibre)	Ribbon Dimension IEC 60794-1-23 Separability of Individual Fibres from Ribbon IEC 60794-1-23 Ribbon Twist Test IEC 60794-1-23 Ribbon Torsion Resistance	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC TEC 70022401
			IEC 60794-1-31	TEC 70022401
	Optical Fibre Cable- ADSS on Aerial	Transmission Characteristics	Attenuation at 1310 nm IEC 60793-1-40 Attenuation at 1550 nm	TEC ER No. TEC 70022401 TEC ER No.
	alignment		IEC 60793-1-40 Attenuation at 1625 nm IEC 60793-1-40	TEC 70022401 TEC ER No. TEC 70022401
			PMD Cabled Loose Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
			PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
		Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401
			Crush Resistance IEC 60794-1-21	TEC ER No. TEC 70022401

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Sl. No.	Telecom Equipment	Test Parameter	or Type of Testing	Standard/ Specification
110.	/Product			Specification
	Optical	Mechanical	Impact	TEC ER No.
	Fibre Cable-	Characteristics	IEC 60794-1-21	TEC 70022401
	ADSS on Aerial		Bend Test	TEC ER No.
	Aeriai alignment		IEC 60794-1-21	TEC 70022401
	angiment		Repeated Bend Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Torsion Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Cable Drip Test	TEC ER No.
			IEC 60794-1-22	TEC 70022401
			Galloping Test	TEC ER No.
			IEC 60794-1-21, IEEE 1222	TEC 70022401
		Environmental	Temperature Cycling	TEC ER No.
		Characteristics	IEC 60794-1-22	TEC 70022401
			Cable Aging Test	TEC ER No.
			IEC 60794-1-22	TEC 70022401
			Water Blocking Test/Water Penetration	TEC ER No.
			Test	TEC 70022401
			IEC 60794-1-22	
		Characteristics	Kink Resistance Test	TEC ER No.
		of Cable	IEC 60794-1-23	TEC 70022401
		Elements		
		(Buffer Tube)		
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Sl.	Telecom	Test Parameter or Type of Testing		Standard/
No.	Equipment			Specification
	/Product			
			D'11 D'	TEG ED M
	Optical Coll	Characteristics	Ribbon Dimension	TEC ER No.
	Fibre Cable- ADSS on	of Cable	IEC 60794-1-23	TEC 70022401
	ADSS on Aerial	Elements	Separability of Individual Fibres from	TEC ER No.
	alignment	(Ribboned	Ribbon	TEC 70022401
	angiment	Fibre)	IEC 60794-1-23	
			Ribbon Twist Test	TEC ER No.
			IEC 60794-1-23	TEC 70022401
			Ribbon Torsion Resistance	TEC ER No.
			IEC 60794-1-31	TEC 70022401
	<b>Optical Fibre</b>	Transmission	Attenuation at 1310 nm	TEC ER No.
	Cable-	Characteristics	IEC 60793-1-40	TEC 70022401
	Indoor		Attenuation at 1550 nm	TEC ER No.
			IEC 60793-1-40	TEC 70022401
			Attenuation at 1625 nm	TEC ER No.
			IEC 60793-1-40	TEC 70022401
			PMD Cabled Loose Fibre	TEC ER No.
			IEC 60793-1-48	TEC 70022401
			PMD Cabled Ribbon Fibre	TEC ER No.
			IEC 60793-1-48	TEC 70022401
		Mechanical	Tensile Strength	TEC ER No.
		Characteristics	IEC 60794-1-21	TEC 70022401
			Crush Resistance	TEC ER No.
			IEC 60794-1-21	TEC 70022401

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Validity: 16/08/2024 to 15/08/2027 Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable- Indoor	Mechanical Characteristics	Impact IEC 60794-1-21 Bend Test IEC 60794-1-21 Repeated Bend Test	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No.
			IEC 60794-1-21 Torsion Test IEC 60794-1-21 Cable Drip Test IEC 60794-1-22	TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
		Environmental Characteristics	Temperature Cycling IEC 60794-1-22 Cable Aging Test IEC 60794-1-22	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
			Water Blocking Test/Water Penetration Test IEC 60794-1-22	TEC ER No. TEC 70022401
		Characteristics of Cable Elements (Buffer Tube)	Kink Resistance Test IEC 60794-1-23	TEC ER No. TEC 70022401

<sup>\*</sup>The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.

### GOVERNMENT OF INDIA MINISTRY OF COMMUNICATIONS DEPARTMENT OF TELECOMMUNICATIONS TELECOMMUNICATION ENGINEERING CENTRE



Standard/

Gate No. 5, KhurshidLalBhawan, Janpath, New Delhi - 110 001

### SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s West Coast Optilinks (A division of West Coast Paper Mills

Limited)- OFC- Quality Assurance Laboratory, Mysore

Plot No. 386 & 387, KIADB Electronic City,

Hebbal Industrial Area, Mysore Karnataka- 570 016

Certificate Number: TEC/MRA/CAB/IND-D/101 Page 12 of 18

**Test Parameter or Type of Testing** 

Telecom

No.	Equipment /Product		0	Specification
	Optical Fibre Cable-	Characteristics of Cable	Ribbon Dimension IEC 60794-1-23	TEC ER No. TEC 70022401
	Cable- Indoor	Elements	Separability of Individual Fibres from	TEC ER No.
		(Ribboned Fibre)	Ribbon IEC 60794-1-23	TEC 70022401
		,	Ribbon Twist Test IEC 60794-1-23	TEC ER No. TEC 70022401
			Ribbon Torsion Resistance IEC 60794-1-31	TEC ER No. TEC 70022401
		Transmission Characteristics	Attenuation at 1310 nm IEC 60793-1-40	TEC ER No. TEC 70022401
	Access Outdoor		Attenuation at 1550 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			Attenuation at 1625 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			PMD Cabled Loose Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
			PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
		Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401
			Crush Resistance IEC 60794-1-21	TEC ER No. TEC 70022401
			Impact IEC 60794-1-21	TEC ER No. TEC 70022401

<sup>\*</sup>The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.

### GOVERNMENT OF INDIA MINISTRY OF COMMUNICATIONS DEPARTMENT OF TELECOMMUNICATIONS TELECOMMUNICATION ENGINEERING CENTRE



Gate No. 5, KhurshidLalBhawan, Janpath, New Delhi - 110 001

## SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s West Coast Optilinks (A division of West Coast Paper Mills

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Plot No. 386 & 387, KIADB Electronic City,

Hebbal Industrial Area, Mysore Karnataka- 570 016

Certificate Number: TEC/MRA/CAB/IND-D/101 Page 13 of 18

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable- Access Outdoor	Mechanical Characteristics	Bend Test IEC 60794-1-21 Repeated Bend Test IEC 60794-1-21 Torsion Test IEC 60794-1-21 Cable Drip Test IEC 60794-1-22	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
		Environmental Characteristics	Temperature Cycling IEC 60794-1-22 Cable Aging Test IEC 60794-1-22 Water Blocking Test/Water Penetration Test IEC 60794-1-22	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
		Characteristics of Cable Elements (Buffer Tube) Characteristics of Cable Elements (Ribboned Fibre)	Kink Resistance Test IEC 60794-1-23  Ribbon Dimension IEC 60794-1-23  Separability of Individual Fibres from Ribbon IEC 60794-1-23	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401 TEC ER No. TEC 70022401

<sup>\*</sup>The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.

#### **GOVERNMENT OF INDIA** MINISTRY OF COMMUNICATIONS DEPARTMENT OF TELECOMMUNICATIONS TELECOMMUNICATION ENGINEERING CENTRE



Gate No. 5, KhurshidLalBhawan, Janpath, New Delhi - 110 001

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

Laboratory Name: M/s West Coast Optilinks (A division of West Coast Paper Mills

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Plot No. 386 & 387, KIADB Electronic City,

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Certificate Number: TEC/MRA/CAB/IND-D/101 Page 14 of 18

Validity: 16/08/2024 to 15/08/2027 Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing		Standard/ Specification	
	Cable- Access		Ribbon Twist Test IEC 60794-1-23	TEC ER No. TEC 70022401	
	Outdoor	Elements (Ribboned Fibre)	Ribbon Torsion Resistance IEC 60794-1-31	TEC ER No. TEC 70022401	
	Optical Fibre Cable-	Transmission Characteristics	Attenuation at 1310 nm IEC 60793-1-40	TEC ER No. TEC 70022401	
	Indoor- Outdoor		Attenuation at 1550 nm IEC 60793-1-40	TEC ER No. TEC 70022401	
			Attenuation at 1625 nm IEC 60793-1-40	TEC ER No. TEC 70022401	
			PMD Cabled Loose Fibre IEC 60793-1-48	TEC ER No. TEC 70022401	
			PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401	
		Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401	
			Crush Resistance IEC 60794-1-21	TEC ER No. TEC 70022401	
			Impact IEC 60794-1-21	TEC ER No. TEC 70022401	
			Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401	
			Repeated Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401	

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Laboratory Name: M/s West Coast Optilinks (A division of West Coast Paper Mills

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Plot No. 386 & 387, KIADB Electronic City,

Hebbal Industrial Area, Mysore Karnataka- 570 016

Certificate Number: TEC/MRA/CAB/IND-D/101 Page 15 of 18

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable- Indoor- Outdoor	Mechanical Characteristics	Torsion Test IEC 60794-1-21 Cable Drip Test IEC 60794-1-22	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
		Environmental Characteristics	Temperature Cycling IEC 60794-1-22	TEC ER No. TEC 70022401
			Cable Aging Test IEC 60794-1-22	TEC ER No. TEC 70022401
			Water Blocking Test/Water Penetration Test IEC 60794-1-22	TEC ER No. TEC 70022401
		Characteristics of Cable Elements (Buffer Tube)	Kink Resistance Test IEC 60794-1-23	TEC ER No. TEC 70022401
		Characteristics of Cable	Ribbon Dimension IEC 60794-1-23	TEC ER No. TEC 70022401
		Elements (Ribboned Fibre)	Separability of Individual Fibres from Ribbon IEC 60794-1-23	TEC ER No. TEC 70022401
		-,	Ribbon Twist Test IEC 60794-1-23 Ribbon Torsion Resistance IEC 60794-1-31	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401

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## SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s West Coast Optilinks (A division of West Coast Paper Mills

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Plot No. 386 & 387, KIADB Electronic City,

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Certificate Number: TEC/MRA/CAB/IND-D/101 Page 16 of 18

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing		Standard/ Specification
	Optical Fibre Cable- In Home	Transmission Characteristics	Attenuation at 1310 nm IEC 60793-1-40 Attenuation at 1550 nm IEC 60793-1-40	TEC ER No. TEC 70022401 TEC ER No. TEC 70022401
			Attenuation at 1625 nm IEC 60793-1-40	TEC ER No. TEC 70022401
			PMD Cabled Loose Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
			PMD Cabled Ribbon Fibre IEC 60793-1-48	TEC ER No. TEC 70022401
		Mechanical Characteristics	Tensile Strength IEC 60794-1-21	TEC ER No. TEC 70022401
			Crush Resistance IEC 60794-1-21	TEC ER No. TEC 70022401
			Impact IEC 60794-1-21	TEC ER No. TEC 70022401
			Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Repeated Bend Test IEC 60794-1-21	TEC ER No. TEC 70022401
			Torsion Test IEC 60794-1-21	TEC ER No. TEC 70022401
		Environmental Characteristics	Temperature Cycling IEC 60794-1-22	TEC ER No. TEC 70022401

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Plot No. 386 & 387, KIADB Electronic City,

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Certificate Number: TEC/MRA/CAB/IND-D/101 Page 17 of 18

**Test Parameter or Type of Testing** 

Sl. Telecom

No.	Equipment	10001 00001	or Type or Testing	<b>Specification</b>
	/Product			•
		Environmental	Cable Aging Test	TEC ER No.
		Characteristics	IEC 60794-1-22	TEC 70022401
	In Home			
		Transmission	Attenuation at 1310 nm	TEC ER No.
	Cable-Direct	Characteristics	IEC 60793-1-40	TEC 70022401
	Surface		Attenuation at 1550 nm	TEC ER No.
	Application		IEC 60793-1-40	TEC 70022401
	(DSA)		Attenuation at 1625 nm	TEC ER No.
			IEC 60793-1-40	TEC 70022401
			PMD Cabled Loose Fibre	TEC ER No.
			IEC 60793-1-48	TEC 70022401
			PMD Cabled Ribbon Fibre	TEC ER No.
			IEC 60793-1-48	TEC 70022401
		Mechanical	Tensile Strength	TEC ER No.
		Characteristics	IEC 60794-1-21	TEC 70022401
			Crush Resistance	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Impact	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Bend Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Repeated Bend Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Torsion Test	TEC ER No.
			IEC 60794-1-21	TEC 70022401
			Cable Drip Test	TEC ER No.
			IEC 60794-1-22	TEC 70022401

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Certificate Number: TEC/MRA/CAB/IND-D/101 Page 18 of 18

**Test Parameter or Type of Testing** 

Sl. Telecom

No.	Equipment /Product		<b>V.</b>	Specification
	Ontical Fibra	Environmental	Town and type Cycling	TEC ER No.
	Optical Fibre Cable-Direct		Temperature Cycling IEC 60794-1-22	TEC ER No. TEC 70022401
	Surface Application	<b>Environmental Characteristics</b>	Cable Aging Test IEC 60794-1-22	TEC ER No.
	(DSA)	Chai acteristics	Water Blocking Test/Water Penetration	TEC 70022401 TEC ER No.
			Test IEC 60794-1-22	TEC 70022401
			Electrical Continuity test IEC 60794-1-403	TEC ER No. TEC 70022401
		Characteristics	Kink Resistance Test	TEC ER No.
		of Cable Elements (Buffer Tube)	IEC 60794-1-23	TEC 70022401
		Characteristics of Cable	Ribbon Dimension IEC 60794-1-23	TEC ER No. TEC 70022401
		Elements (Ribboned	Separability of Individual Fibres from Ribbon	TEC ER No. TEC 70022401
		Fibre)	IEC 60794-1-23	
			Ribbon Twist Test IEC 60794-1-23	TEC ER No. TEC 70022401
			Ribbon Torsion Resistance	TEC ER No.

AD (CA), TEC

TEC 70022401

IEC 60794-1-31

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