



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**QUALITY ASSURANCE LABORATORY- WEST COAST
OPTILINKS (A DIVISION OF WEST COAST PAPER MILLS
LIMITED)**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT NO. 386 &387, KIADB ELECTRONIC CITY, HEBBAL INDUSTRIAL AREA, MYSORE, KARNATAKA,
INDIA

in the field of

TESTING

Certificate Number: TC-13257

Issue Date: 13/03/2024

Valid Until:

12/03/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: WEST COAST PAPER MILLS LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber	Cabled SMF Cut-off Wavelength	IEC 60793-1-44, FOTP 170, IEC 60793-2-50
2	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber	Water Immersion	TEC 85190, IEC 60793-1-53, IEC 60793-2-50, TIA-455-74-B
3	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber (Coloured)	MEK Rub	IEC 60794-1-219, TEC GR 89010
4	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Length Measurement	IEC 60793-1-22
5	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Compound Flow (Drip)	IEC 60794-1-22, Telcordia GR 20, XP C 93-850-3-25
6	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Sheave - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25
7	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Tensile - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25
8	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Water Penetration	IEC 60794-1-22, Telcordia GR 20, XP C 93-850-3-25, ICEA 640, TIA-455-82-C
9	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Aeolin Vibration - Change in Transmittance	IEC 60794-1-2, Method E19, IEEE 1222, IEEE 1138
10	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Aggressive Media	ICEA 640, ISO 175, TEC 85190



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11	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Bend / Static bend - Change in Transmittance	IEC 60794-3-10, IEC 60794-1-21, IEC 60794-5-10, IEEE 1222, IEEE 1138
12	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Cable Ageing - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-22, Telcordia GR 20, XP C 93-850-3-25
13	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Cable external freezing - Change in Transmittance	IEC 60794-1-22, Telcordia GR 20
14	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Creep behaviour - Change in Transmittance	IEC 60794-1-21, IEEE 1222, IEEE 1138
15	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Crush - Change in Transmittance	IEEE 1222, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25
16	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Easy Removal of Sheath	RDSO/SPN/TC/110/2020, TEC GR, TEC 85190
17	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Electrical Continuity	IEC 60794-1-24
18	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Galloping - Change in Transmittance	IEC 60794-1-21, Method E26, IEEE 1222, IEEE 1138
19	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Impact - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25
20	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Low and High Temperature Cable Bend - Change in Transmittance	Telcordia GR 20, TIA-455-37-A
21	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Polyethylene Peeling /Jacket Bonding / Force of Adhesion	ASTM D4565, TEC GR, TEC/GR/TX/OFC-20/01/MAR-2011, RDSO/SPN/TC/110/2020, TEC 85170, TEC 89010



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22	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical fiber Cable	Repeated Bend - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, GR 20, XP C 93-850-3-25
23	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Temperature Cycle - Change in Transmittance	IEEE 1222, Telcordia GR 20, XP C 93-850-3-25, IEC 60794-1-22, Method F1
24	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Tensile - Fiber Strain	IEEE 1222, IEEE 1138, XP C 93-850-3-25, Telcordia GR 20, IEC 60794-1-21
25	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Test of Figure of 8 on the cable	TEC-GR-TX-OFC-022-02 (Clause no. 4.14)
26	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Torsion - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25
27	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable	Visual identification of cable elements & construction of cable	TEC/GR/TX/OFC-20/01/MAR2011, RDSO/SPN/TC/110/2020, Telcordia GR 20, TEC 89010
28	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable & Loose Tube	Drainage	IEC 60794-1-21, IEC 60794-3, TEC 85190
29	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Buffer Tube, Loose Tube	Kink Resistance	Telcordia GR 20, IEC 60794-1-23
30	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Plastic	Density	ASTM D792
31	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Plastic	Ultimate Elongation	Telcordia GR 20, ICEA 640
32	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Plastic	Elongation at break	ASTM D638



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33	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Plastic	Jacket Yield Strength	Telcordia GR20, ICEA 640
34	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Plastic	Melt Flow Rate	ASTM D1238
35	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Plastic	Tensile Strength	ASTM D638
36	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Polyolefins (PE & PP)	Carbon Black Content	ASTM D1603
37	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Polyolefins (PE & PP)	Carbon Black Dispersion	IS 7328
38	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Polyolefins (PE & PP)	Environmental Stress Cracking Resistance	ASTM D1693
39	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Cable, Polyolefins (PE & PP)	Oxidation Induction Time	ASTM D3895
40	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Ribbon/ Cable	Ribbon Dimension	IEC 60794-1-23
41	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Ribbon/Cable	Ribbon Torsion Resistance	IEC 60794-1-31
42	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Ribbon/Cable	Ribbon Twist	IEC 60794-1-23
43	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber Ribbon/Cable	Separability of individual fibers from Ribbon	IEC 60794-1-23



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44	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	CD coefficient @ 1550 & 1625	IEC 60793-2-50, IEC 60793-1-42
45	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Attenuation @ 1310, 1383, 1490, 1550 & 1625 nm	IEC 60793-2-50, IEC 60794-5-10, IEEE 1222, IEEE 1138, Telcordia GR 20, IEC 60793-1-40 Method C
46	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	CD coefficient @1270 - 1340 nm band	IEC 60793-2-50, IEC 60793-1-42
47	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	CD coefficient @1285 - 1330 nm band	IEC 60793-2-50, IEC 60793-1-42
48	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Clad Diameter	IEC 60793-1-20 Method B
49	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Clad Non-circularity	IEC 60793-1-20 Method B
50	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Coating Cladding Concentricity	IEC 60793-2-50, IEC 60793-1-21
51	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Coating measurement	IEC 60793-1-21, IEC 60793-2-50
52	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Core-clad Concentricity Error	IEC 60793-2-50, IEC 60793-1-20
53	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Slope at Zero dispersion	IEC 60793-1-42 Method B
54	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable	Zero Dispersion Wavelength	IEC 60793-1-42 Method B



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55	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable, Optical Fiber Ribbon	PMD @1310 & 1550 nm	IEC 60793-1-48, IEC 60793-2-50
56	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber, Optical Fiber Cable, Optical Fiber Ribbon	Spectral Attenuation(1250nm to 1625nm)	IEC 60793-1-40
57	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber/Cable/Ribbon	Cut off Wavelength	IEC 60793-1-44
58	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fiber/Cable/Ribbon	Mode Field diameter of SM fibers at 1310nm & 1550 nm	IEC 60793-1-45 Method B