National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HFCL LTD. (OFC TESTING LAB), L-35,36,37, VERNA INDUSTRIAL ESTATE, VERNA, SOUTH GOA, GOA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10244 **Page No** 1 of 2

Validity 20/01/2022 to 19/01/2024 **Last Amended on** -

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-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Chromatic Dispersion (CD)	IEC 60793-1-42 Method B
2	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Clad Diameter	IEC 60793-1-20 Method B
3	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Clad Non-circularity	IEC 60793-1-20 Method B:
4	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Cut off Wavelength	IEC 60793-1-44
5	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Diameter of coating	IEC 60793-1-21 Method A
6	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Mode Field diameter of SM fibers @ 1310nm & 1550nm	IEC 60793-1-45 Method B
7	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Slope at Zero dispersion	IEC 60793-1-42 Method B
8	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Spectral Attenuation	IEC 60793-1-40 Method C
9	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER / OPTICAL FIBER CABLE	Zero Dispersion Wavelength	IEC 60793-1-42 Method B
10	ELECTRONICS-MISCELLANEOUS PRODUCTS	Optical Fiber Cable	Tensile Test – Strain Measurement	IEC 60794-1-21 Method E1
11	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Abrasion Test	IEC 60794-1-21 Method E2+AMD1
12	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Attenuation (@ 1310nm, 1550nm & 1625nm)	IEC 60793-1-40 Method C
13	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Cable Ageing - Change in Transmittance @1310 nm & 1550 nm	IEC 60794-1-22, Method F9:

SCOPE OF ACCREDITATION

Laboratory Name :	HFCL LTD. (OFC TESTING LAB), L-35,36,37, VERNA INDUSTRIAL ESTATE, VERNA, SOUTH GOA, GOA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10244	**Page No**	2 of 2
Validity	20/01/2022 to 19/01/2024	**Last Amended on**	-

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
14	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Cable Bend Test - Change in Transmittance @1310 nm & 1550 nm & Visual Inspection	IEC 60794-1-21 Method E11+AMD1
15	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Crush Test - Change in Transmittance @1310 nm & 1550 nm & Visual Inspection	IEC 60794-1-21 Method E3A+AMD1
16	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Drip Test	IEC 60794-1-22 Method F16
17	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Impact Test - Change in Transmittance @1310 nm & 1550 nm & Visual Inspection	IEC 60794-1-21 Method E4+AMD1
18	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Kink Test - Change in Transmittance @1310 nm & 1550 nm & Visual Inspection	IEC 60794-1-21 Method E10+AMD1:
19	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Optical Length	IEC 60793-1-22 Method B
20	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Repeated Bend Test - Change in Transmittance @1310 nm & 1550 nm & Visual Inspection	IEC 60794-1-21 Method E6+AMD1:
21	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Temperature Cycle Test - Change in Transmittance @1310 nm & 1550 nm (-50°C to +85°C)	IEC 60794-1-22, Method F1:
22	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Tensile Test - Change in Transmittance @1310 nm & 1550 nm (1 kg to 20,000 kg)	IEC 60794-1-21 Method E1+AMD1
23	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Torsion Test - Change in Transmittance @1310 nm & 1550 nm & Visual Inspection (0.5 kg to 100 kg)	IEC 60794-1-21 Method E7+AMD1:
24	ELECTRONICS-MISCELLANEOUS PRODUCTS	OPTICAL FIBER CABLES	Water Penetration Test	IEC 60794-1-22 Method F5B: