



National Accreditation Board for **Testing and Calibration Laboratories**





(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

ADITYA BIRLA INSULATORS (A UNIT OF GRASIM INDUSTRIES LIMITED)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

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

for its facilities at

P.O. Prabhas Nagar, Rishra, Hooghly, West Bengal, Kolkata

in the field of

TESTING

Certificate Number TC-7801

Issue Date

30/08/2018

Valid Until 29/08/2020

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)

Signed for and on behalf of NABL



89076970100030001948

Anil Relia Chief Executive Officer





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SCOPE OF ACCREDITATION

Laboratory

Aditya Birla Insulators (A Unit of Grasim Industries Limited), P.O.

Prabhas Nagar, Rishra, Hooghly, West Bengal, Kolkata

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

TC-7801

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Validity

30.08.2018 to 29.08.2020

Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		CHEMI	CAL TESTING	
ī.	METALLIC COATIN			
1.	Porcelain Insulators	Bulk Density	ASTM:C-373-14a IS 1528 (Part 15)	1.5 g/cc to 3.5 g/cc
		Closed porosity	IS 1528 (Part 15)	0.5%v/v to 15.0 %v/v
		Alumina	IS 9749	10 % to 50 %
2.	Insulators Metal Parts	Mass of Zinc Coating Uniformity of Zinc Coating	IS 6745 IS 2633	100 g/m² to 3000 g/m² Qualitative

Mandeep Kumar Convenor

Anuja Anand Program Manager





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SI. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			• • • • • • • • • • • • • • • • • • •

			performed	Limits of Detection
I.	INSULATING MAT			
1.	Porcelain Insulators Insulator strings Single/Twin/Triple /Quad Tension type (11/33) kV (String testing)	Mechanical Strength on Insulator string	IS 2486, Cl. No. 11.1	20 kN to 1000 kN
2.	Porcelain Insulators and Insulators String type (Unit Testing)	Thermal Mechanical Performance (on a Tension Mode string of 20 units of 11 KV)	IEC 60383,Cl. No. 20, 33.1 IEC 60575, Cl. No. 3	20 kN to 500 kN 20 kN to 200 kN (-)50°C to +50°C
	Insulator type 11/33 kV on Suspension Mode	Power Frequency Withstand and Flashover (Dry)	IS 731 ,Cl. No. 10.4 IS 2544,Cl. No. 9.4 IS 5300 IS 1445 IEC 60383, Cl. No. 14, 34, 35	5 kV to 250 kV
		Dry Lightening Impulse Withstand and Flashover	IS 731, Cl. No. 10.3, IEC 60383 ,Cl. No. 13,34,35 IEC 60060-1,Cl. No. 19.1	50 kV to 750 kV
		Insulation Resistance (11 kV)	PGCIL Q.P. No. INB-316	10 MΩ to 10000 MΩ
		Under Oil Puncture withstand test (11 kV)	IS 731.Cl. No. 10.10 IS 2544 ,Cl. No. 9.9 IS 1445,Cl. No. 7.6 IEC 60383,Cl. No. 15	5 kV to 250 kV
		Impulse Puncture Withstand Voltage Test (Steep Wave Front Withstand) on Suspension Mode (11 kV)	IEC 61211 : 2004-2011, Cl. No. 5.3,5.5 & IEC 60060-1,1989-2011, Cl. No. 18.1.4	50 kVp to 600 kVp Rate of rise 2500 kV/μ Sec

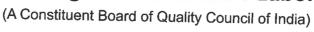
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SI.	Product / Material of Test	Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cantilever Load Withstand (33 kV) on Suspension Mode	IS 2544 ,Cl. No. 9.6	5 kN to 200 kN
		Porosity on Ceramic Insulators (11kV)	IS 731,Cl. No. 10.1 IS 2544 IS 5300 IS1445 IEC 60383,Cl. No. 25	100 kg/cm² to 1000 kg/cm²
		Electro Mechanical Failing Load Test on Tension Mode (11 kV)	IS 731,Cl. No. 10.7 IEC 60383 Cl. No. 18,33.1,33.2	10 kN to 600 kN 20 kV to 100 kV
		Temperature Cycle test (33 kV)	IS 731,Cl. No. 10.6 IS 2544,Cl. No. 9.8 IS 5300 ,Cl. No. 7.6 IEC 60383, Cl. No. 23.1	2 °C to 100 °C
		Mechanical Performance Test on 20 units of 11kV	IEC 60383 IEC 60575,Cl. No. 4	10 kN to 600 kN
		Residual Strength on 25 units of (11 kV)	IEC 60797 ,Cl. No. 4	10 kN to 600 kN
		Impact Test (11 kV) Verification of Dimension & Displacement Test (33 kV) Axial (dial gauge) Radial (Dial gauge Spacing) (Digital height Meter Diameter (Vernier) Creepage (scale)	ANSI 29.1, Cl. No. 8.2.8 IS 731,Cl. No. 10.5 IS 2544,Cl. No. 9.7 IS 1445,Cl. No. 7.5 IS 5300,Cl. No.7.5 IEC 60383, Cl. No. 17, 21	5 kN to 1000 kN 0.1 mm to 20 mm) 0.1 mm to 20 mm) 10 mm to 300 mm) 5 mm to 600 mm) 5 mm to 600 mm)

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Operation

(Length, Width, Thickness)

Verification of Dimension

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			performed	

MECHANICAL TESTING MECHANICAL PROPERTIES OF METALS Insulators Metal 1. Hardness IS 1586 Parts (Metal Cap, 70 HRBW to 95 Rockwell Hardness Ball Pin & Split **HRBW** Brinell Hardness IS 1500 130 HBW to 350 HBW Pin) (10/3000)Resistance to bending IEC 60372-II Qualitative 16 mm, 20 mm & 24 mm Dimension IS 2486-II Qualitative Requirements of Ball & IEC 60120 16 mm, 20 mm,24 Socket mm & 28 mm Freedom from defect IS 2629 Qualitative Verification of locking IEC 60383 Qualitative Position of Locking IEC 60383 Qualitative device

IEC 60383

IS 2486 (Part-IV)

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5 kg to 70 kg

2 mm to 200 mm