National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADITYA BIRLA INSULATORS (A UNIT OF GRASIM INDUSTRIES LIMITED), P.O. PRABHAS NAGAR, RISHRA, HOOGHLY, KOLKATA, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 29/01/2023 to 28/01/2025 **Last Amended on** 10/02/2023

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	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Insulators Metal Parts	Determination of Mass of Zinc Coating	IS 6745
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Insulators Metal Parts	Uniformity of Zinc Coating	IS 2633
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Porcelain Insulators	Bulk Density Determination	ASTM C-373-18
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Porcelain Insulators	Bulk Density Determination	IS:1528 Part -15
5	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Porcelain Insulators	Closed porosity Determination	IS:1528 Part -15
6	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Porcelain Insulators	Determination of Alumina	IS 9749:
7	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Procelain Insulators	Alumina content determination in porcelain (Si2 Al) body	ABI/SOP/03 (Sl. No.: 6)
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IS 731
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Electro Mechanical performance Test	IS 731
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Impact Test	ANSI C29.1
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Residual Test	IEC : 60797
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IS 731
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Torsion Test	IEC 60168

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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
14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type	Puncture test (power frequency voltage)	IS 731
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	IS 731
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Torsion Test	ANSI/NEMA C29.8
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Torsion Test	ANSI/NEMA C29.9
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Torsion Test	IEC 273
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Torsion Test	IEC 60168
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Torsion Test	IS 5350
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Transformer oil resistivity and Tan Delta test	IS: 6262
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	24 Hr. Mechanical Performance Test	IS: 731
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	IS 2544
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Corona Voltage Test	IEC 61284
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Die electric test	ASTM D 3755
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Die electric test	IEC 60672-2
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.18

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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.17
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.7
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.8
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.9
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC 60060-2
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IS 731
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Insulation Resistance Test	ABI/SOP/02 (Sr. No.: 04) Issue date: 01.07.2017, Rev. Dt. 28.10.2020
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.12
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.17
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.18
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.8
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.9
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IS 731
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IS/IEC 60383-1

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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
42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	ANSI/NEMA C29.11
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	ANSI/NEMA C29.12
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	ANSI/NEMA C29.17
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	ANSI/NEMA C29.18
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	ANSI/NEMA C29.8
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	ANSI/NEMA C29.9
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	IEC 60060-1
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	IS/IEC 60383-1
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Power frequency voltage Test	TI/SPC/OHE/INS/0070
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.8
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.9
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IS 731
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	TI/SPC/OHE/INS/0070
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.13

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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
56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.18
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.2A
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.4
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.8
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.9
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	IS 731
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	TI/SPC/OHE/INS/0070
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Time-Load Withstand Strength	ANSI C29.1
64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.12
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.17
66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.9
67	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS 731
68	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	TI/SPC/OHE/INS/0070
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Displacement and Eccentricity	IEC: 383

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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
70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Displacement and Eccentricity	TI/SPC/OHE/INS/0070
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Vibration Test	ABI/SOP/02 (Sr. No.: 27) Issue date: 01.07.2017, Rev. Dt. 28.10.2020
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Vibration Test	ABI/SOP/02 (Sr. No.: 27) Issue date: 01.07.2017, Rev. Dt. 28.10.2020
73	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visible Discharge Voltage Test	IS 731
74	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visible Discharge Voltage Test	TI/SPC/OHE/INS/0070
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.13
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.17
77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.18
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.2 B
79	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.2A
80	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	CSA C411.1-16
81	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Visual Examination	TI/SPC/OHE/INS/0070
82	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Mechanical Performance Test	IEC 575
83	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IS 731

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84	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Tensile Test	IS/IEC 60383-1
85	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS 731
86	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	ANSI/NEMA C29.8
87	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	ANSI/NEMA C29.9
88	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.11
89	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.12
90	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.13
91	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.17
92	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.18
93	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.2 B
94	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	ANSI/NEMA C29.2A
95	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	IS 731
96	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI C29.2
97	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.1

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98	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.11
99	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.13
100	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.2 B
101	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.2A
102	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.3
103	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.4
104	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.5
105	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.6
106	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	ANSI/NEMA C29.7
107	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IEC 60168
108	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IEC 62217
109	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IEC:61109
110	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IEC60383
111	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IS 1445

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112	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IS 2544
113	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IS 5350
114	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI C29.2
115	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.1
116	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.11
117	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.12
118	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.13
119	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.18
120	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.2 B
121	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.2A
122	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.3
123	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.5
124	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.6
125	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	ANSI/NEMA C29.7

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126	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IEC 60168
127	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IEC 62217
128	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IEC:61109
129	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IEC60383
130	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IS 1445
131	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IS 5300
132	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IS 5350
133	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test	IS/IEC 60383-1
134	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test up to	ANSI/NEMA C29.17
135	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Temperature cycle Test up to 1200kV line items	IS 2544
136	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Tensile Test	TI/SPC/OHE/INS/0070
137	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	, ANSI/NEMA C29.11
138	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	ANSI C29.2
139	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	ANSI/NEMA C29.13

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140	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	ANSI/NEMA C29.18
141	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	ANSI/NEMA C29.2 B
142	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	ANSI/NEMA C29.2A
143	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	CSA C411.1-16
144	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	IEC 575
145	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	IEC 60383
146	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Thermal Mechanical Performance Test	IS/IEC 60383-1
147	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IS: 5350
148	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI C29.2
149	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.1
150	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.11
151	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.12
152	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.13
153	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.2 B

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154	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.2A
155	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.5
156	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	ANSI/NEMA C29.6
157	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	CSA C411.1-16
158	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC 273
159	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC 60168
160	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC 62217
161	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC:61109
162	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC60383
163	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IS 1445
164	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IS 2544
165	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IS 5300
166	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	IS 5300
167	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Cantilever/Bending Test	ANSI/NEMA C29.9

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168	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Porosity/ Dye penetration Test	ANSI/NEMA C29.1
169	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Porosity/ Dye penetration Test	IS/IEC:60383-1
170	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI C29.2
171	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.11
172	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.13
173	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.2 B
174	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.2A
175	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.3
176	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.4
177	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.5
178	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.6
179	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.7
180	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	CSA C411.1-16
181	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IEC 273

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182	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IEC 60168
183	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IEC 62217
184	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IEC:60060-2
185	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IEC:61109
186	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IEC60383
187	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IS 1445
188	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IS 2544
189	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IS 5300
190	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	IS 5350
191	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Power frequency voltage Test	ANSI/NEMA C29.1
192	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Tensile Test	ANSI/NEMA C29.2B
193	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI C29.2
194	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/N C29.8
195	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/NEMA C29.11

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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
196	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/NEMA C29.3
197	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/NEMA C29.4
198	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/NEMA C29.5
199	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/NEMA C29.6
200	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	ANSI/NEMA C29.7
201	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IEC 273
202	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IEC 60168
203	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IEC 61284
204	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IEC:61109
205	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IEC:62217
206	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IEC60383
207	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS 1445
208	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS 2486
209	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS 2544

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210	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS 5300
211	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS 5350
212	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS/IEC 60383-1
213	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String	Visual Examination	IS13305
214	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	IEC 273
215	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	IEC 60168
216	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	IS 5300
217	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	IS 5350
218	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Compression Test	TI/SPC/OHE/INS/0070
219	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Corona Voltage Test	ANSI C29.1
220	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Die electric test	ANSI/NEMA C29.9
221	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	IEC 60060-1
222	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Impulse voltage Test	TI/SPC/OHE/INS/0070
223	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Mechanical Performance Test	TI/SPC/OHE/INS/0070

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224	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Porosity/ Dye penetration Test	TI/SPC/OHE/INS/0070
225	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Torsion Test	TI/SPC/OHE/INS/0070
226	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS 1445
227	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI C29.2
228	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.1
229	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.11
230	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.13
231	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.2 B
232	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.2A
233	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.3
234	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.4
235	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.5
236	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.6
237	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.7

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238	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.9
239	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IEC 273
240	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IEC 60168
241	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IEC 61284
242	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IEC:61109
243	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IEC:62217
244	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IEC60383
245	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS 2486
246	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS 2544
247	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS 5300
248	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS 5350
249	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Dimension	IS/IEC 60383-1
250	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Displacement and Eccentricity	IS 5350
251	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Displacement and Eccentricity	IS/IEC 60383-1

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252	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Displacement and Eccentricity for	IEC 273
253	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain & Composite Insulators unit and String type up to 1200kV line	Verification of the Displacement and Eccentricity for	IEC 60168
254	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String	Voltage Distribution Test	IEC 60060-2
255	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String	Voltage Distribution Test	IEC 60060-2
256	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String	Voltage Distribution Test	IEC 60060-1
257	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type	Cantilever/Bending Test	ANSI/NEMA C29.7
258	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200 kV line	Tensile Test	ANSI/NEMA C29.1
259	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200 kV line	Tensile Test	IEC 60168
260	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200 kV line	Tensile Test	IEC 61284
261	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV lin	Transformer oil resistivity and Tan Delta test	IS 335
262	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	ANSI C29.1
263	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	ANSI/NEMA C29.17
264	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	ANSI/NEMA C29.18
265	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	ANSI/NEMA C29.5

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266	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	ANSI/NEMA C29.6
267	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IEC 273
268	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IEC 60168
269	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IEC60383
270	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IS 1445
271	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IS 5300
272	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IS 5350
273	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test	IS 2544
274	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Cantilever/Bending Test up to 1200kV line items	ANSI/NEMA C29.8
275	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Electro Mechanical performance Test	ANSI C29.1
276	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Electro Mechanical performance Test	ANSI C29.2
277	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Electro Mechanical performance Test	CSA C411.1-16
278	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Electro Mechanical performance Test	IEC 60383
279	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Electro Mechanical performance Test	IS/IEC 60383-1

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280	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Impact Test	ANSI C29.2
281	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Impact Test set-up	ANSI C29.2
282	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Impact Test set-up	CSA C411.1-16
283	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI C29.2
284	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.1
285	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.11
286	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.12
287	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.13
288	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.18
289	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.2 B
290	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.2A
291	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.4
292	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.5
293	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.6

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294	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.7
295	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	ANSI/NEMA C29.8
296	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IEC 60168
297	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IEC60383
298	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IS 1445
299	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IS 2544
300	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IS 5300
301	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IS 5350
302	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture test (power frequency voltage)	IS/IEC 60383-1
303	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	CSA C411.1-16
304	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	IEC 60-1
305	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	IEC 60383
306	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	IEC 61211
307	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	IEC 62217

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308	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Puncture withstand voltage (Impulse over voltage/Steep front wave test)	IS/IEC 60383-1
309	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Residual Test	ANSI C29.2
310	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Residual Test	CSA C411.1-16
311	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	ANSI C29.2
312	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.11
313	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.12
314	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.17
315	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.2 B
316	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	ANSI/NEMA C29.3
317	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IEC 273
318	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IEC 62217
319	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IEC:61109
320	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IEC60383
321	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IS 1445

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322	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IS 2544
323	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IS 5300
324	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Tensile Test	IS 5350
325	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Transformer oil resistivity and Tan Delta test	IS 6103
326	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Verification of the Dimension	ANSI/NEMA C29.18
327	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.12
328	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Porcelain Insulators unit and String type up to 1200kV line	Visual Examination	ANSI/NEMA C29.9
329	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Cap, Ball Pin & Split Pin)	Operation	IEC 60383
330	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Cap, Ball Pin & Split Pin)	Position of Locking device	IEC 60383
331	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Brinell Hardness 10/3000	IS1500
332	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Dimension Requirements of Ball & Socket	IEC: 60120
333	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Dimension Requirements of Ball & Socket	IS: 2486-II
334	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Freedom from defect	IS: 2629
335	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Rockwell hardness	IS 1586

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336	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Verification of Locking System	IEC: 60383
337	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Verification of resistance to bending	IEC: 60372
338	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Insulators Metal Parts (Metal Caps Ball Pin & Split Pin)	Verification of Dimension (Length,Width,Thickness)	ABI/SOP/01