National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AXIOM - AXIS ELECTRICAL COMPONENTS INDIA PRIVATE LIMITED, 149-BCD, KANDIVALI, GOVT. INDUSTRIAL ESTATE, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Checking of dimensions	Cl 9 IS 14772
2	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Clearances and creepage distances	Cl 10 IEC 61439-2, Cl 10.4 IEC 61439-1
3	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Creepage distances, clearances and distances through sealing compound	Cl 17 IS 14772
4	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Markings	Cl 8 IS 14772
5	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Resistance of insulating material to abnormal heat and to fire	Cl 18 IS 14772
6	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Resistance to abnormal heat and fire due to internal electric effects	Cl 10.2.7 IEC 61439-2
7	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Meter box, single/three LT phase distribution box	Temperature rise test	Cl 10.10 IEC 61439-2, IEC 61439-1
8	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Midspan joints- insulated mid span joints for AB cable	Electrical ageing test	Cl 6.8 NFC 033 021, NFC 033 004
9	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Air termination conductors, air-termination rods, earth lead-in rods, earth conductors and earth plates	Electrical resistivity test	Cl 5.2.5 IEC 62561-2
10	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Air termination conductors, air-termination	Bend and adhesion test for coated conductors	Cl 5.2.3 IEC 62561-2
11	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Air termination conductors, air-termination rods, earth lead-in rods, earth conductors and earth plates	Test for thickness of coating	Cl 5.2.2 IEC 62561-2
12	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Anchoring clamp	Mechanical test- tensile test on bracket	Cl 7.3.1 NFC 33 041, NF EN 50483-3

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13	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Covered conductor accessories	Electrical ageing test for connectors	Cl 7.7 EN BS 50397-2
14	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Covered conductor accessories	Shear head function test	Cl 7.4.11 EN BS 50397 2
15	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Covered conductor accessories	Water tightness test for IPC	Cl 7.6 EN BS 50397-2
16	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth rods	Adherence of coating	Cl 9.7.1 UL467
17	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth rods	Adhesion test	Cl 5.3.3 IEC 62561-2
18	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth rods	Bend test	Cl 5.3.4 IEC 62561-2
19	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth rods	Bending	Cl 9.7.2 UL467
20	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth rods	Electrical resistivity test	Cl 5.3.6 IEC 62561-2
21	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth rods	Tests for thickness coating on earth rods	Cl 5.3.2 IEC 62561-2
22	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ground clamp	Pull – protective-type ground clamp	Cl 9.3 UL 467
23	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ground clamp	Tightening force for ground clamps	Cl 9.2 UL 467

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24	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector	Electrical ageing test	Cl 6.8 NFC 33 020, Cl 8.1.5.1 EN 50483-4, EN 50483-5
25	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector	Electrical ageing test	Cl 6.8 NFC 33 020, NFC 33 004
26	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector	Heat cycling test	Cl 6.3 IEC 61238-1-2
27	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector	Mechanical test - shear head function’s test and connector bolt tightening test	Cl 6.3.1 NFC 33 020, Cl 8.1.2.4 NF EN 50483-4
28	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector	Water tightness test	Cl 6.4.2 NFC 33 020, Cl 8.1.3.2 EN 50483-4
29	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Joints for earth rods	Tensile strength test	Cl 5.4.5 IEC 62561-2
30	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Joints for earth rods	Wire connectors – pull out test	Cl 9.1 UL467, UL 486 A & 486 B
31	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Joints for earth rods	Wire connectors – secureness test	Cl 9.1 UL467, UL 486 A & 486 B
32	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Joints for earth rods	Wire connectors – static heating	Cl 9.1 UL 467, UL 486 A & 486 B
33	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Lightning Protection System Components (LPSC) - connection components	Marking test	Cl 6.6 IEC 62561-1
34	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Lightning Protection System Components (LPSC) - connection components	Static mechanical test	Cl 6.5 IEC 62561-1

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35	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	LPSC- earthing enhancing compounds	Determination of resistivity	Cl 5.4 IEC 62561-7
36	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	LPSC-earthing enhancing compounds	Marking and indications	Cl 5.6 IEC 62561-7
37	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Mid span joints- insulated mid span joints for AB cable	Leak test	Cl 6.4.2 NFC 33 021
38	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Mid span joints- insulated mid span joints for AB cable	Electrical ageing test	Cl 6.8 NFC 33 021, EN 50483-5
39	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead line hardware	Heat cycle test	Cl 13 IEC 61284
40	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Suspension clamp	Mechanical test – crimping ability test	Cl 7.3.1 NFC-33-040
41	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Suspension clamp	Tensile test on the fusible sub assembly- mobile links and suspension clamps	Cl 7.3.2 NFC 33 040
42	ELECTRICAL- WIRING ACCESSORIES	Cable cleat	Axial load test	Cl 9.4 IEC 61914
43	ELECTRICAL- WIRING ACCESSORIES	Cable cleat	Lateral load test	Cl 9.3 IEC 61914
44	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Cable anchorage test for armoured cable	Cl 9.4 IEC 62444, BS EN 62444
45	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Cable Anchorage Test for Non-Armoured Cable	Cl 9.3 IEC 62444, BS EN 62444
46	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Cable retention	Cl 4.2.1.1 BS 6121 (Part 1), Cl 10.4.1 BS EN 50262
47	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Cable retention test	Cl 9.2 IEC 62444, BS EN 62444
48	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Construction	Cl 4.1 BS 6121 (Part 1)

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49	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Electrical connection to metallic layer(s) of cable	Cl 4.2.2.2 BS 6121 (Part 1), Cl 10.2 BS EN 50262
50	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Entry thread	Cl 4.1.2 BS 6121 (Part 1)
51	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Equipotential bonding	Cl 4.2.2.1 BS 6121 (Part 1), Cl 10.1 BS EN 50262
52	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Equipotential bonding to electrical equipment	Cl 10.1 IEC 62444, BS EN 62444
53	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Equipotential bonding to metallic layer(s) of cable	Cl 10.2 IEC 62444, BS EN 62444
54	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Insulation resistance	Cl 4.2.2.3 BS 6121 (Part 1), Cl 10.3.2 BS EN 50262
55	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Marking and durability and legibility	Cl 7.1 & Cl 7.2 IEC 62444
56	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Reaction to fire	Cl 13.1 IEC 62444 BS EN 62444
57	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Resistance to abnormal heat (glow wire test)	Cl 4.2.3.2 BS 6121 (Part 1), Cl 12.2 BS EN 50262
58	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Resistance to excess torque	Cl 4.2.1.3 BS 6121 (Part 1)
59	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Resistance to impact	Cl 4.2.1.2 BS 6121 (Part 1), Cl 9.4 BS EN 50262
60	ELECTRICAL- WIRING ACCESSORIES	Cable glands	Resistance to Impact	Cl 9.5 IEC 62444, BS EN 62444
61	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Installation test	Cl 9.2 IEC 62275
62	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Loop tensile strength test for cable ties - after heating ageing	Cl 9.5.2 IEC 62275
63	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Loop tensile strength test for cable ties - as received condition	Cl 9.5.1 IEC 62275
64	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Loop tensile strength test for cable ties classified according to Cl.6.2.3- as received condition	Cl 9.6.1 IEC 62275
65	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Mechanical strength test for fixing devices and integral assemblies- after heat ageing	Cl 9.7.2 IEC 62275

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66	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Mechanical strength test for fixing devices and integral assemblies- as received condition	Cl 9.7.1 IEC 62275
67	ELECTRICAL- WIRING ACCESSORIES	Cable ties & cable markers	Minimum installation temperature test for cable ties	Cl 9.3 IEC 62275
68	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Installation test	Cl 9.2 UL 62275
69	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Loop tensile strength test for cable ties- after heating ageing	Cl 9.5.2 UL 62275
70	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Loop tensile strength test for cable ties- as received condition	Cl 9.5.1 UL 62275
71	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Loop tensile strength test for cable ties- as received condition	Cl 9.5.1 IEC 62275
72	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Loop tensile strength test for cable ties classified according to Cl.6.2.3- after heat ageing	Cl 9.6.2 IEC 62275
73	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Loop tensile strength test for cable ties classified according to Cl.6.2.3- after heat ageing	Cl 9.6.2 UL 62275
74	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Loop tensile strength test for cable ties classified according to Cl.6.2.3- as received condition	Cl 9.6.1 UL 62275
75	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Mechanical strength test for fixing devices and integral assemblies- after heat ageing	Cl 9.7.2 IEC 62275
76	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Mechanical strength test for fixing devices and integral assemblies- as received condition	Cl 9.7.1 UL 62275
77	ELECTRICAL- WIRING ACCESSORIES	Cable ties and markers	Minimum installation temperature test for cable ties	Cl 9.3 UL 62275
78	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Current cycling test	Cl 9.2 UL 486 A & B
79	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Drop test	Cl 9.7 UL 486 A & B
80	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Electrical test	Cl 6 AS NZS 4325-1

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81	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Electrical conductivity test	Cl 8.3 IS 8309
82	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Flattening test	Cl 8.2 IS 8309
83	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Heat cycling test	Cl 6.3 IEC 61238-1-3
84	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Heat cycling test	Cl 6.3 IEC 61238-1-1
85	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Mechanical sequence – pull out test	Cl 9.4.2 UL 486 A & B
86	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Mechanical sequence - secureness test	Cl 9.4.1 UL 486 A & B
87	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Mechanical test- tensile strength test	Cl 7.0 IEC 61238-1-3
88	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Mechanical test- tensile strength test	Cl 7.0 IEC 61238-1-1
89	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Mechanical test- tensile strength test	Cl 7 AS NZS 4325-1
90	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Pull out test	Cl 9.3.4 UL 486 A & B
91	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Secureness of insulation	Cl 9.6, UL 486 A & B
92	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Static-heating sequence- repeated static heating test	Cl.9.3.3 UL 486 A & B
93	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Static-heating sequence- secureness test	Cl 9.3.2 UL 486 A & B
94	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Static-heating sequence- static heating test	Cl 9.3.1 UL 486 A & B
95	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Temperature measurements	Cl 8 UL 486 A & B
96	ELECTRICAL- WIRING ACCESSORIES	Lugs, connectors , PG clamps Al/Cu, bimetallic PG clamp, Cu Lugs, bimetallic lugs	Visual examination and dimensional check-up	Cl 8.1 IS 8309