National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSRAIL CONDUCTOR LAB, TRANSRAIL LIGHTING LIMITED, CONDUCTOR DIVISION, SURVEY NO 178 TO 182. VILLAGE AMBOLI, DUNGRIPADA, KHERDI SURANGI ROAD, SILVASSA, DADRA AND NAGAR HAVELI, 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-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	SS 4240812 Cl.5
2	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	BS 215 (Part 1),Cl 4.3
3	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	BS 215 (Part 2),Cl 4.3
4	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	IS 398 (Part 1),Cl.12.5
5	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	IS 398 (Part 2), Cl.13.6
6	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	IS 398 (Part 4),Cl. 12.4
7	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	IS 398 (Part 5), Cl.13.8
8	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire	Resistance Test	SS 4240813 Cl.5
9	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test / preece test)	EN 50189 Cl.11.8
10	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test / preece test)	ASTM B 232
11	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test / preece test)	ASTM B 711
12	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test / preece test)	BS 215 (Part 2)
13	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test / preece test)	IEC 60888 Cl.11.5

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14	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test / preece test)	Test Method IS 2633
15	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	EN 50189 Cl.11.5.3 & 11.7
16	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	ASTM B 232
17	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	ASTM B 711
18	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	BS 215 (Part 2) Cl 4.3.2
19	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	IEC 60888 Cl.10.3(C),11.4
20	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	IS 398 (Part 2),Cl.13.5.2 (Wrapping), Test Method 4826(Adhesion)
21	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrap & Adhesion Test with mandrel diameter	IS 398 (Part 5),Cl.13.7.2(Wrapping), Test Method IS 4826(Adhesion)
22	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	SS 4240813 Cl 1.3
23	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	ASTM B 232
24	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	ASTM B 399
25	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	ASTM B 524
26	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	ASTM B 711
27	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	BS 215 (Part 1) Cl 4.3

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28	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	BS 215 (Part 2) Cl 4.3.2
29	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	EN 50889 CL.10.2
30	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	IEC 60889 Cl.10.2
31	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	IS 398 (Part 1),Cl.12.4
32	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	IS 398 (Part 2) Reaffirmation, March 2018,Cl.13.5.1
33	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	IS 398 (Part 4) Reaffirmation, 2014
34	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	IS 398 (Part 5),Cl.13.7.1
35	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Wrapping Test for Aluminum & Aluminum Alloy Wire	SS 4240812, SS 4240811 Cl 1.3
36	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	ASTM B 230 :Cl 7(EC) ,ASTM B 398 Cl.7(Alloy)
37	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	ASTM B 230 Cl.7
38	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	ASTM B 398 Cl.7
39	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	ASTM B398 Cl.7
40	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	BS 215 (Part 1) Cl 4.3
41	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	BS 215 (Part 2) Cl 4.3

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42	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	EN 60889 Cl.10.1
43	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	IEC 61089, Cl.6.6.4
44	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	IS 398 (Part 1),Cl.12.3
45	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	IS 398 (Part 2),Cl.13.3
46	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	IS 398 (Part 4),Cl.12.
47	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	IS 398 (Part 5),Cl.13.5.2
48	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	SS 4240812, Cl.3
49	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Breaking Load Test on Individual Strands	SS 4240813 Cl 1.2
50	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	ASTM B 232
51	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	ASTM B 398, Table 02
52	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	ASTM B 399
53	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	ASTM B 711
54	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	BS 215 (Part 1)
55	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	BS 215 (Part 2) Cl 4.3.2

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56	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	EN 50189 Cl.11.5.1
57	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	IEC 60888 Cl.10.3
58	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	IS 398 (Part 1)
59	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	IS 398 (Part 2),Cl.13.4.2
60	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	IS 398 (Part 4) ,Cl.12.3
61	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	IS 398 (Part 5),Cl.13.6.2
62	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	SS 4240812
63	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Elongation Test	SS 4240814
64	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Mass of Zinc Coating On HTGS Wire	ASTM B 232
65	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Mass of Zinc Coating On HTGS Wire	ASTM B 498
66	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Mass of Zinc Coating On HTGS Wire	BS 215 (Part 2) Cl 4.3.2
67	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Mass of Zinc Coating On HTGS Wire	EN 50189 Cl.11.6
68	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Mass of Zinc Coating On HTGS Wire	IEC 60888 Cl.11.3
69	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Mass of Zinc Coating On HTGS Wire	Test Method IS 6745

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70	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	ASTM B 232
71	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	ASTM B 399
72	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	ASTM B 524
73	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	ASTM B 711
74	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	BS 215 (Part 1) Cl 3.2
75	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	BS 215 (Part 2) Cl 3.2
76	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	EN 50182,Cl.6.5.2
77	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	IEC 61089 Cl. 6.6.1.3
78	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	IS 398 (Part 1) ,Cl.12.2
79	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	IS 398 (Part 2),Cl.13.2
80	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	IS 398 (Part 4),Cl.7.1.1
81	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	IS 398 (Part 5),Cl.8.1.1
82	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	SS 4240811 Cl 3
83	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Diameter of Individual Strands	SS 4240813 Cl 3

SCOPE OF ACCREDITATION

Laboratory Name :	TRANSRAIL CONDUCTOR LAB, TRANSRAIL LIGHTING LIMITED, CONDUCTOR DIVISION, SURVEY NO 178 TO 182. VILLAGE AMBOLI, DUNGRIPADA, KHERDI SURANGI ROAD, SILVASSA, DADRA AND NAGAR HAVELI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6485	**Page No**	7 of 8
Validity	03/11/2021 to 02/11/2023	**Last Amended on**	10/12/2021

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
84	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	ASTM B 232
85	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	ASTM B 399
86	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	ASTM B 524
87	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	ASTM B 711
88	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	BS 215 (Part 1) Cl 1.2
89	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	BS 215 (Part 2) Cl 1.2
90	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	EN 50182,Cl.6.4.4
91	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	IEC 61089,Cl.6.6.6
92	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	IS 398 (Part 1),Cl.12.6
93	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	IS 398 (Part 2),Cl.13.8
94	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	IS 398 (Part 4),Cl.9.2
95	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	IS 398 (Part 5),Cl.13.4
96	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	SS 4240812 Cl. 2
97	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Measurement of Lay Length & Lay Ratio	SS 4240814 Cl 4

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6485	**Page No**	8 of 8
Validity	03/11/2021 to 02/11/2023	**Last Amended on**	10/12/2021

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
98	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	ASTM B 232
99	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	ASTM B 711
100	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	BS 215 (Part 2) Cl 4.3.2
101	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	EN 50189 Cl.11.5.2
102	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	IEC 60888 Cl. 10.3
103	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	IS 398 (Part 2),Cl.13.4.1
104	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Individual Strands of the Stranded Conductor ACSR / AAAC / AAC / AL59 / ACAR / AACSR / ACS / GS Earthwire (11 kV to 800 kV)	Torsion Test	IS 398 (Part 5),Cl.13.6.1