National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 1 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Adhesion Test	Cl 9.3, IS 3975
2	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Ageing in air oven	Cl 10.1.C. i, IS 14255
3	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Bending Test	Cl 11.4, IS 14255
4	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Breaking load Test on Messenger Conductor	Cl 10.1.b.i, IS 14255
5	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Carbon Black Content	Cl 10.1.c.vi, Cl 10.1.d. i, IS 14255
6	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Conductor Resistance	Cl 10.1.a. i, IS 14255
7	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Elongation Test on Messenger Conductor	Cl 10.1.b. i, IS 14255
8	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Environmental Stress Cracking	Cl 10.1.d.v, IS 14255
9	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	High voltage test	Cl 10.1.g, IS 14255
10	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Hot Set Test	Cl 10.1.c. i, IS 14255
11	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Insulation Resistance (Volume Resistivity) Test	Cl 10.1.f, IS 14255
12	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Melt flow index	Cl 10.1.d. i, IS 14255
13	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Shrinkage Test	Cl 10.1.c.iv, IS 14255
14	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Tensile strength and elongation at break	Cl 10.1.c.i, IS 14255
15	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Tensile strength for Aluminum Wires	Cl 10.1.a.i, IS 14255
16	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Test for Thickness of insulation	Cl 10.1.e, IS 14255
17	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Vicat Softening Point Test	Cl 10.1.d.iv, IS 14255
18	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Water Absorption Test (Gravimetric)	Cl 10.1.c.v, IS 14255

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 2 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables	Wrapping test for Aluminum wires	Cl 10.1.a. i, IS 14255
20	ELECTRICAL- CABLES & WIRES	Aluminium Wires	Tensile strength for Aluminum Wires	IS 10810 (Part 2)
21	ELECTRICAL- CABLES & WIRES	Aluminium Wires	Tensile strength for Aluminum Wires	Cl 7.2.1, IS 8130
22	ELECTRICAL- CABLES & WIRES	Aluminium Wires	Wrapping test for Aluminum wires	Cl 7.2.2, IS 8130
23	ELECTRICAL- CABLES & WIRES	Aluminum wires	Wrapping test for Aluminum wires	IS 10810 (Part 3)
24	ELECTRICAL- CABLES & WIRES	Annealed Copper Wires	Annealing Test	IS 10810 (Part 1)
25	ELECTRICAL- CABLES & WIRES	Armour Wires and Strips of Electric Cables	Resistivity of Armour (Wires/strips)	IS 10810 (Part 42)
26	ELECTRICAL- CABLES & WIRES	Armouring Material	Tensile strength and elongation at break of armouring material	IS 10810 (Part 37)
27	ELECTRICAL- CABLES & WIRES	Bunched cables	Flame Retardance Test on Bunched Cable	IS 10810 (Part 62)
28	ELECTRICAL- CABLES & WIRES	Carbon content test for polyethylene	Carbon Black Content Test	IS 10810 (Part 32)
29	ELECTRICAL- CABLES & WIRES	Conductors for Insulated Electric Cables and Flexible Cords	Annealing test	Cl 7.1.2, IS 8130
30	ELECTRICAL- CABLES & WIRES	Conductors for Insulated Electric Cables and Flexible Cords	Conductor Resistance Test	Cl 7.3, IS 8130
31	ELECTRICAL- CABLES & WIRES	Copper and Aluminium Conductors for Electric Cables	Conductor Resistance Test	IS 10810 (Part 5)
32	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Ageing in air oven	Cl 15.1.d. i, Cl 15.1. e.2, IS 7098 (Part 1)
33	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Annealing Test	Cl 15.1.a.i, IS 7098 (Part 1)
34	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Armour Coverage Percentage Test	Cl 13.1.2, IS 7098 (Part 1)
35	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Cold Impact Test	Cl 15.4.b, IS 7098 (Part 1)
36	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Conductor Resistance Test	Cl 15.1.a.iv, IS 7098 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 3 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
37	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Dimension for armouring material	Cl 15.1.b, IS 7098 (Part 1)
38	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC Sheathed cables	Flame Retardance Test on Bunched Cable	Cl 15.1.1.c, IS 7098 (Part 1)
39	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Flame retardant test on Single Cable	Cl 15.1.1.b, IS 7098 (Part 1)
40	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Flammability test	Cl 15.1.h, IS 7098 (Part 1)
41	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Halogen Acid Gas Evolution	Cl 15.1.1, IS 7098 (Part 1)
42	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Heat Shock test	Cl 15.1.e.vi, IS 7098 (Part 1)
43	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	High voltage test	Cl 15.1.g, IS 7098 (Part 1)
44	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Hot deformation test	Cl 15.1.e.v, IS 7098 (Part 1)
45	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Hot Set Test	Cl 15.1.d.3, IS 7098 (Part 1)
46	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Insulation Resistance (Volume Resistivity) Test	Cl 15.1.f, IS 7098 (Part 1)
47	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Loss of mass test	Cl 15.1.e. i, IS 7098 (Part 1)
48	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Mass of Zinc coating Test	Cl 15.1.b, IS 7098 (Part 1)
49	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Oxygen Index Test	Cl 15.1.1.a, IS 7098 (Part 1)
50	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Resistance Test for Armour (for Mining Cables)	Cl 13.5,15.3.c, IS 7098 (Part 1)
51	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Resistivity test of Armour (Wires/strips)	Cl 15.1.b, IS 7098 (Part 1)
52	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Shrinkage Test	Cl 15.1.d.iv, Cl 15.1.e.iv, IS 7098 (Part 1)
53	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Temperature Index Test	Cl 15.1.1.g, IS 7098 (Part 1)
54	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Tensile strength and elongation at break of armouring material	Cl 15.1.b, IS 7098 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 4 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
55	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Tensile strength and elongation at break Test	Cl 15.1.d.i, Cl 15.1.e.i, IS 7098 (Part 1)
56	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Tensile strength for Aluminum Wires	Cl 15.1.a. i, IS 7098 (Part 1)
57	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Test for Thickness of insulation and sheath	Cl 15.1.c, IS 7098 (Part 1)
58	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Thermal Stability test	Cl 15.1.e.v i, IS 7098 (Part 1)
59	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Torsion Test	Cl 15.1.b, IS 7098 (Part 1)
60	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Uniformity of Zinc coating Test	Cl 15.1.b, IS 7098 (Part 1)
61	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Water Absorption Test (Gravimetric)	Cl 15.1.d.v, IS 7098 (Part 1)
62	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Winding Test on galvanized strips for armouring	Cl 15.1.b, IS 7098 (Part 1)
63	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated PVC sheathed cables	Wrapping test for Aluminum wires	Cl 15.1.a. i, IS 7098 (Part 1)
64	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Ageing in air oven	Cl 19.1. i. B, Cl 19.1. vi. B, IS 7098 (Part 2)
65	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Annealing Test	Cl 19.1.i.a, IS 7098 (Part 2)
66	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Armour Coverage Percentage Test	Cl 17.2, IS 7098 (Part 2)
67	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Carbon Black Content Test	Cl 19.1.vi.h, IS 7098 (Part 2)
68	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Cold Impact Test	Cl 19.4, IS 7098 (Part 2)
69	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Conductor Resistance Test	Cl 19.1.i.d, IS 7098 (Part 2)
70	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Dimension for armouring material	Cl 19.1. i, IS 7098 (Part 2)
71	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Flame Retardance Test on Bunched Cable	Cl 19.1.3.c, IS 7098 (Part 2)
72	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Flame retardant test on Single Cable	Cl 19.1.3.b, IS 7098 (Part 2)
73	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Flammability test	Cl 19.1.xv, IS 7098 (Part 2)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10863	**Page No**	5 of 12
Validity	27/07/2022 to 26/07/2024	**Last Amended on**	-

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
74	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Halogen Acid Gas Evolution	Cl 19.1.3.e, IS 7098 (Part 2)
75	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Heat Shock test	Cl 19.1.vi.f, IS 7098 (Part 2)
76	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	High voltage test	Cl 19.1.xiv, IS 7098 (Part 2)
77	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	High Voltage Test (4 hour Test)	Cl 20.7.1, IS 7098 (Part 2)
78	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Hot deformation test	Cl 19.1.vi.d, IS 7098 (Part 2)
79	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Hot Set Test	Cl 19.1. i.d, IS 7098 (Part 2)
80	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Insulation Resistance (Volume Resistivity) Test	Cl 19.1.xi, IS 7098 (Part 2)
81	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Loss of mass test	Cl 19.1.vi.e, IS 7098 (Part 2)
82	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Mass of Zinc coating Test	Cl 19.1. i, IS 7098 (Part 2)
83	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Oxygen Index Test	Cl 19.1.3.a, IS 7098 (Part 2)
84	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Resistance Test for Armour (for Mining Cables)	Cl 17.5, Cl 19.3.d, IS 7098 (Part 2)
85	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Resistivity test of Armour (Wires/strips)	Cl 19.1. i, IS 7098 (Part 2)
86	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Shrinkage Test	Cl 19.1. i.e, Cl 19.1.vi.c, IS 7098 (Part 2)
87	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Temperature Index Test	Cl 19.1.3.d, IS 7098 (Part 2)
88	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Tensile strength and elongation at break of armouring material	Cl 19.1. i, IS 7098 (Part 2)
89	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Tensile strength and elongation at break Test	Cl 19.1. i.a, Cl 19.1.vi.a, IS 7098 (Part 2)
90	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Tensile strength for Aluminum Wires	Cl 19.1.i.b, IS 7098 (Part 2)
91	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Test for eccentricity of insulation	Cl 19.1.iv, IS 7098 (Part 2)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10863	**Page No**	6 of 12
Validity	27/07/2022 to 26/07/2024	**Last Amended on**	-

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
92	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Test for Strippability of semiconducting strippable insulation screen	Cl 19.1.v.a, IS 7098 (Part 2)
93	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Test for Thickness of insulation and sheath	Cl. 19.1.iv, IS 7098 (Part 2)
94	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Test for Volume Resistivity of semiconducting screens	Cl 20.9, IS 7098 (Part 2)
95	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Thermal Ageing Test for complete Cable	Cl 20.9, IS 7098 (Part 2)
96	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Thermal Stability test	Cl 19.1.vi.g, IS 7098 (Part 2)
97	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Torsion Test	Cl 19.1. i, IS 7098 (Part 2)
98	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Uniformity of Zinc coating Test	Cl 19.1. i, IS 7098 (Part 2)
99	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Water Absorption Test (Gravimetric)	Cl. 19.1. i.f, IS 7098 (Part 2)
100	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Winding Test on galvanized strips for armouring	Cl 19.1. i, IS 7098 (Part 2)
101	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene insulated thermoplastic sheathed cables	Wrapping test for Aluminum wires	Cl 19.1.i.c, IS 7098 (Part 2)
102	ELECTRICAL- CABLES & WIRES	Dielectric material of electric cable	Insulation Resistance	IS 10810 (Part 43)
103	ELECTRICAL- CABLES & WIRES	Dielectric material of electric cable	Insulation Resistance Constant	IS 10810 (Part 43)
104	ELECTRICAL- CABLES & WIRES	Dimension for armouring material	Dimension for armouring material	IS 10810 (Part 36)
105	ELECTRICAL- CABLES & WIRES	Elastomeric Heavy duty Sheath	Tear Resistance Test	IS 10810 (Part 17)
106	ELECTRICAL- CABLES & WIRES	Electric Cables	Flame retardant test	IS 10810 (Part 61)
107	ELECTRICAL- CABLES & WIRES	Electric Cables	Flammability Test	IS 10810 (Part 53)
108	ELECTRICAL- CABLES & WIRES	Electric Cables	High voltage test	IS 10810 (Part 45)
109	ELECTRICAL- CABLES & WIRES	Galvanized mild steel wires,strips and tapes of Armour	Mass of zinc coating Test	IS 10810 (Part 41)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 7 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
110	ELECTRICAL- CABLES & WIRES	Galvanized mild steel wires,strips and tapes of Armour	Uniformity of Zinc coating Test	IS 10810 (Part 40)
111	ELECTRICAL- CABLES & WIRES	Galvanized Steel Strips of Armouring	Winding Test on galvanized strips for armouring	IS 10810 (Part 39)
112	ELECTRICAL- CABLES & WIRES	Galvanized Steel Wires for Armouring	Torsion Test	IS 10810 (Part 38)
113	ELECTRICAL- CABLES & WIRES	Halogenated Polymers and Compounds	Halogen Acid Gas content	IEC 60754 (Part 1)
114	ELECTRICAL- CABLES & WIRES	Halogenated Polymers and Compounds	Halogen Acid Gas Evolution	IS 10810 (Part 59)
115	ELECTRICAL- CABLES & WIRES	Insulating and Sheathing Material	Oxygen Index Test	ASTM D 2863
116	ELECTRICAL- CABLES & WIRES	Insulating and Sheathing Material	Oxygen Index Test	IS 10810 (Part 58)
117	ELECTRICAL- CABLES & WIRES	Insulating or Sheathing Material of Electric Cable	Temperature Index Test	IS 10810 (Part 64)
118	ELECTRICAL- CABLES & WIRES	Insulating or Sheathing Material of Electric Cable	Temperature Index Test	ASTM D 2863
119	ELECTRICAL- CABLES & WIRES	Insulation and sheath Material	Smoke Density Test	ASTM D 2843
120	ELECTRICAL- CABLES & WIRES	Insulation and sheath material	Smoke Density test	IS 13360 (Part 6) Sec 9
121	ELECTRICAL- CABLES & WIRES	Insulation and Sheath of Electric Cables	Ageing in air oven	IS 10810 (Part 11)
122	ELECTRICAL- CABLES & WIRES	Insulation of Electric Cables	Hot set Test	IS 10810 (Part 30)
123	ELECTRICAL- CABLES & WIRES	Insulation or Sheath of Electric Cables	Water absorption test (Gravimetric)	IS 10810 (Part 33)
124	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes	Resistance Test	Cl 8.4, IS 3975
125	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Elongation at Break	Table 5, IS 3975
126	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Mass of Zinc Coating	Cl 9.1, IS 3975
127	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for Armouring of cables	Resistivity of Armour (Wires/strips)	Cl 8.4.1, IS 3975
128	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Tensile Test	Cl 8.1, IS 3975

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 8 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
129	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Torsion Test	Cl 8.2, IS 3975
130	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Uniformity of Zinc Coating Test	Cl 9.2, IS 3975
131	ELECTRICAL- CABLES & WIRES	Low carbon Galvanized steel wires, formed wires and tapes for armouring of cables	Wrapping Test	Cl 8.3, IS 3975
132	ELECTRICAL- CABLES & WIRES	Polyethylene insulation and sheath of electric cable.	Cold bend Test	Cl 15.4.a, IS 7098 (Part 1)
133	ELECTRICAL- CABLES & WIRES	Polyethylene insulation and sheath of electrical cables	Melt flow index	IS 10810 (Part 23)
134	ELECTRICAL- CABLES & WIRES	Polyethylene insulation and sheath of electrical cables	Vicat Softening Point Test	IS 10810 (Part 22)
135	ELECTRICAL- CABLES & WIRES	Polyethylene Insulation or Sheath of electric cable	Environmental Stress Cracking Test	IS 10810 (Part 29)
136	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Additional Ageing Test	Cl 10.9, IS 694
137	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Ageing in air oven	Cl 10. i.c.3 and Cl 10. i.d.3, IS 694
138	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Annealing Test	Cl 10. i.a.1, IS 694
139	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Cold bend Test	Cl 10. i.c.8, IS 694
140	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Cold Impact Test	Cl 10. i.c.9, IS 694
141	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Conductor Resistance Test	Cl 10. i.a.4, IS 694
142	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Durability & Legibility of Marking	Cl 11.1 and Cl 11.2, IS 694
143	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Flammability test	Cl 10. i.c and Cl 10. i. E.5, IS 694
144	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Halogen Acid Gas Evolution	Cl 10. i.c.13 and Cl 10. i.d.10, IS 694
145	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Heat Shock test	Cl 10. i.c.5 and Cl 10. i.d.5, IS 694
146	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	High voltage test	Cl 10. i.e.4, IS 694
147	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	High Voltage test(Water immersion)	Cl 10. i.e.1, IS 694

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 9 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
148	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Hot deformation test	Cl 10. i.c.6 and Cl 10. i.d.6, IS 694
149	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Insulation Resistance Constant	Cl 4.1 of Table 1, IS 5831
150	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Insulation Resistance Test	Cl 10. i.e.3, IS 694
151	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Loss of mass test	Cl 10. i.c.2 and Cl.10. i.d.2, IS 694
152	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Overall Dimensions	Cl 10. i.b, IS 694
153	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Oxygen Index Test	Cl 10. i.c.11 and Cl 10. i.d.8, IS 694
154	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Persulphate Test on Tinned Copper Wires	Cl 10. i.5, IS 694
155	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Shrinkage Test	Cl 10. i.c.4 and Cl 10. i.d.4, IS 694
156	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Smoke Density test	Cl 10. i.c.14 and Cl 10. i.d.11, IS 694
157	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Temperature Index Test	Cl 10. i.c.12 and Cl 10. i.d.9, IS 694
158	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Tensile strength and elongation at break Test	Cl 10. i.c.1 and Cl 10. i.d.1, IS 694
159	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Tensile strength for Aluminum Wires	Cl 10. i.a.2, IS 694
160	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Test for Thickness of insulation and sheath	Cl 10. i.b, IS 694
161	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Thermal Stability test	Cl 10. i.c.7 and Cl 10. i.d.7, IS 694
162	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated and sheathed cables	Wrapping test for Aluminum wires	Cl 10. i.a.3, IS 694
163	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Ageing in air oven	Cl 15.1.d.2, IS 1554 (Part 1)
164	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Annealing Test	Cl 15.1.a.1, IS 1554 (Part 1)
165	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Armour Coverage Percentage Test	Cl 13.1.2, IS 1554 (Part 1)
166	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Cold bend Test	Cl 15.4.a, IS 1554 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 10 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
167	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Cold Impact Test	Cl 15.4.b, IS 1554 (Part 1)
168	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Conductor Resistance Test	Cl 15.1.a.d, IS 1554 (Part 1)
169	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Dimension for armouring material	Cl 15.1.b, IS 1554 (Part 1)
170	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Flame Retardance Test on Bunched Cable	Cl 15.1.1.c, IS 1554 (Part 1)
171	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Flame retardant test on Single Cable	Cl 15.1.1.b, IS 1554 (Part 1)
172	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Flammability test	Cl 15.1.h, IS 1554 (Part 1)
173	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Halogen Acid Gas Evolution	Cl 15.1.1.f, IS 1554 (Part 1)
174	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Heat Shock test	Cl 15.1.d.6, IS 1554 (Part 1)
175	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	High voltage test	Cl 15.1.g, IS 1554 (Part 1)
176	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	High Voltage test(Water immersion)	Cl 15.1.d.f, IS 1554 (Part 1)
177	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Hot deformation test	Cl 15.1.d.4, IS 1554 (Part 1)
178	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Insulation Resistance Test	Cl 15.1.e, IS 1554 (Part 1)
179	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Loss of mass test	Cl 15.1.d.5, IS 1554 (Part 1)
180	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Mass of Zinc coating Test	Cl 15.1.b, IS 1554 (Part 1)
181	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Oxygen Index Test	Cl 15.1.1.a, IS 1554 (Part 1)
182	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Resistance Test for Armour (for Mining Cables)	Cl. 13.5 and Cl 15.3.c, IS 1554 (Part 1)
183	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Resistivity of Armour (Wires/strips)	Cl 15.1.b, IS 1554 (Part 1)
184	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Shrinkage Test	Cl 15.1.d.3, IS 1554 (Part 1)
185	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Temperature Index Test	Cl 15.1.1.d, IS 1554 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10863 **Page No** 11 of 12

Validity 27/07/2022 to 26/07/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
186	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Tensile strength and elongation at break of armouring material	Cl 15.1.b, IS 1554 (Part 1)
187	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Tensile strength and elongation at break Test	Cl 15.1.d.1, IS 1554 (Part 1)
188	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Tensile strength for Aluminum Wires	Cl 15.1.a.2, IS 1554 (Part 1)
189	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Test for Thickness of insulation and sheath	Cl 15.1.c, IS 1554 (Part 1)
190	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Thermal Stability test	Cl 15.1.d.7, IS 1554 (Part 1)
191	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Torsion Test	Cl 15.1.b, IS 1554 (Part 1)
192	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Uniformity of Zinc coating Test	Cl 15.1.b, IS 1554 (Part 1)
193	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Winding Test on galvanized strips for armouring	Cl 15.1.b, IS 1554 (Part 1)
194	ELECTRICAL- CABLES & WIRES	PVC insulated electric cables	Wrapping test for Aluminum wires	Cl 15.1.a.3, IS 1554 (Part 1)
195	ELECTRICAL- CABLES & WIRES	PVC Insulation or Sheath of Electric Cables	Anti Rodent & Anti Termite test	ETL-RCL/WI/43, Issue No 1
196	ELECTRICAL- CABLES & WIRES	PVC Insulation or Sheath of Electric Cables	Thermal Stability test	IS 10810 (Part 60)
197	ELECTRICAL- CABLES & WIRES	Thermoplastic and Elastomeric Insulation and Sheath Electric Cables	Test for Thickness of insulation and sheath	IS 10810 (Part 6)
198	ELECTRICAL- CABLES & WIRES	Thermoplastic and elastomeric insulation and sheath of Electric Cable	Tensile strength and elongation at break Test	IS 10810 (Part 7)
199	ELECTRICAL- CABLES & WIRES	Thermoplastic and Elastomeric insulation or sheath	Cold Impact Test	IS 10810 (Part 21)
200	ELECTRICAL- CABLES & WIRES	Thermoplastic Insulation and Sheath of Electric Cables	Heat Shock test	IS 10810 (Part 14)
201	ELECTRICAL- CABLES & WIRES	Thermoplastic Insulation and Sheath of Electric Cables	Hot deformation test	IS 10810 (Part 15)
202	ELECTRICAL- CABLES & WIRES	Thermoplastic Insulation and Sheath of Electric Cables	Loss of mass test	IS 10810 (Part 10)
203	ELECTRICAL- CABLES & WIRES	Thermoplastic Insulation and Sheath of Electric Cables	Shrinkage Test	IS 10810 (Part 12)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRICAL TESTING LABORATORY, RAVIN CABLES LIMITED, ALANDI-MARKAL MAIN ROAD, MARKAL VILLAGE, GAT NO-227/230, TAL. KHED, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10863	**Page No**	12 of 12
Validity	27/07/2022 to 26/07/2024	**Last Amended on**	-

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
204	ELECTRICAL- CABLES & WIRES	Thermoplastic or elastomeric insulation or Sheath of electric cables	Cold Bend test	IS 10810 (Part 20)
205	ELECTRICAL- CABLES & WIRES	Tinned Copper wires for Conductor	Persulphate Test on Tinned Copper Wires	Cl No. 7.1.1, IS 8130
206	ELECTRICAL- CABLES & WIRES	Tinned Copper wires for Conductor	Persulphate Test onTinned Copper Wires	IS 10810 (Part 4)