



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**KINECTRICS INDIA PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

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

for its facilities at

SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA

in the field of

**TESTING**

Certificate Number: TC-9423

Issue Date: 14/04/2023

Valid Until:

13/04/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : KINECTRICS INDIA PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	1 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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- CORROSION TESTS	Stranded conductors, Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC)	Salt spray test	ASTM B 117
2	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium-clad steel wires for electrical purposes	Resistivity test	IEC 61232 Cl. 6.3.5
3	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamp fittings and accessories for conductors	Heating cycle test	PGCIL Specification Section VI B Annexure A Cl. 1.5, 2.1
4	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines part 3: accessories for earthwire	Electrical resistance test	IS 2121 (Part 3) Cl. 5.3
5	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead power lines part 2: Mid-span joints and repair sleeves for conductors	Electrical resistance test	IS 2121 (Part 2) Cl. 6.5
6	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead power lines part 1: armour rods, binding wires and tapes for conductors	Electrical resistance test for armour rods	IS 2121 (Part 1) Cl. 7.5
7	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead power lines part 2: Mid-span joints and repair sleeves for conductors	Heating cycle test	IS 2121 (Part 2) Cl. 6.5
8	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Connectors for use between aluminium - to -aluminum or aluminum-to-copper conductors	Current cycle test	ANSI C119.4 Cl. 6.3
9	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Connectors for use between aluminium - to -aluminum or aluminum-to-copper conductors	Resistance measurement	ANSI C119.4 Cl. 5.1.9.3
10	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical conductor materials	Resistivity	ASTM B193
11	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Galvanized strand for earthing	DC resistance test	IS 12776 Cl. 8.3



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<b>Certificate Number</b>	TC-9423	<b>Page No</b>	2 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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12	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hard-drawn aluminium wire for overhead line conductors	Resistivity test	IEC 60889 Cl. 11
13	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Individual wires of aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	DC resistance test	IS 398 (Part 2) Cl. 13.6
14	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Individual wires of aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Resistance test	IS 398 (Part 5) Cl. 13.8
15	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Individual wires of aluminium conductors for overhead transmission purposes part 1: aluminium stranded conductors	Resistance test	IS 398 (Part 1) Cl. 12.5
16	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Individual wires of aluminium conductors for overhead transmission purposes part 4: aluminium alloy stranded conductors (aluminium-magnesium-silicon type)	Resistance test	IS 398 (Part 4) Cl. 12.4
17	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Electrical resistivity	IEC 62641 Cl. 6.4.7
18	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Resistivity	IEC 63248 Cl. 7.4.7
19	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulators for overhead power lines with nominal Voltage greater than 1000 V part 1: general requirements and tests	Heating cycle test	IS 2486 (Part 1) CL. 12.1.1.b
20	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulators for overhead power lines with nominal Voltage greater than 1000 V part 1: general requirements and tests	Resistance test	IS 2486 (Part 1) Cl. 12.1.1.a
21	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metallic materials	Resistivity	IEC 60468
22	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Optical ground wire (OPGW) for use on electric utility power lines	DC resistance test	IEEE 1138 Cl. 6.5.1.5





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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	3 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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23	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines - requirements and tests for fittings	Heat cycle test (Class A joints)	IEC 61284 Cl. 13
24	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines - requirements and tests for fittings	Resistance measurement	IEC 61284 Cl. 13.4.5.1
25	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Stranded conductors	Ampacity test	KIND-SOP-18, Rev:3
26	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Stranded conductors - HTLS & Conventional conductors	DC resistance test on stranded conductor	PGCIL Specification Section VII B Annexure A Cl. 1
27	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Thermal-resistant aluminium alloy wire for overhead line conductor	Electrical resistivity	IEC 62004 Cl. 7.3.5
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-clad steel wires for electrical purposes	Elongation test	IEC 61232 Cl. 6.3.2
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-clad steel wires for electrical purposes	Stress at 1% extension	IEC 61232 Cl. 6.3.6
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-clad steel wires for electrical purposes	Tensile stress	IEC 61232 Cl. 6.3.1
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-clad steel wires for electrical purposes	Thickness of Aluminum cladding	IEC 61232 Cl. 6.3.4
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-clad steel wires for electrical purposes	Torsion test	IEC 61232 Cl. 6.3.3
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-magnesium-silicon alloy wire for overhead line conductors	Elongation test	IEC 60104 Cl. 10.1
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-magnesium-silicon alloy wire for overhead line conductors	Tensile test	IEC 60104 Cl. 10.1



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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	4 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium-magnesium-silicon alloy wire for overhead line conductors	Wrapping test	BS EN 60104 Cl. 10.2
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Clamp fittings and accessories for (High Temperature Low Sag) conductor	Slip strength test for dead end assembly	PGCIL Specification, Section VI B Annexure A Cl. 1.6
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap(s)	Breaking strength of conductor	IEC 62420 Cl. 6.2.5
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap(s)	Lay ratio and direction of lay	IEC 62420 Cl. 6.3.5
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap(s)	Linear mass	IEC 62420 Cl. 6.3.3
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap(s)	Overall diameter	IEC 62420 Cl. 6.3.2
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap(s)	Stress strain test	IEC 62420 Annex B
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductors and earth wire accessories for overhead power lines part 2: mid-span joints and repair sleeves for conductors	Failing Load test	IS 2121 (Part 2) Cl. 6.4
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - round wire concentric lay stranded conductors	Mass per unit length	BS EN 50182 Cl. 6.4.6
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized strand for earthing	Breaking force	IS 12776 Cl. 8.1
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized strand for earthing	Lay and lay length	IS 12776 Cl. 6
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized strand for earthing	Mass per km	IS 12776 Annex A
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hard-drawn aluminium wire for overhead line conductors	Tensile test	IEC 60889 Cl. 10.1
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hard-drawn aluminium wire for overhead line conductors	Wrapping test	IEC 60889 Cl. 10.2



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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	5 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Elongation test	IS 398 (Part 2) Cl. 13.4.2
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Torsion test	IS 398 (Part 2) Cl. 13.4.1
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Elongation test	IS 398 (Part 5) Cl. 13.6.2
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 4: aluminium alloy stranded conductors (aluminium-magnesium-silicon type)	Breaking load test	IS 398 (Part 4) Cl. 12.2
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 4: aluminium alloy stranded conductors (aluminium-magnesium-silicon type)	Elongation test	IS 398 (Part 4) Cl. 12.3
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Breaking load test	IS 398 (Part 2) Cl. 13.3
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Wrapping test	IS 398 (Part 2) Cl. 13.5
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Breaking load test	IS 398 (Part 5) Cl. 13.5.2
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Torsion test	IS 398 (Part 5) Cl. 13.6.1
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Wrapping test	IS 398 (Part 5) Cl. 13.7
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 1: aluminium stranded conductors	Measurement of diameter	IS 398 (Part 1) Cl. 12.2
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 1: aluminium stranded conductors	Breaking load test	IS 398 (Part 1) Cl. 12.3





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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	6 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 1: aluminium stranded conductors	Wrapping test	IS 398 (Part 1) Cl. 12.4
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 3: aluminium conductors, aluminized-steel reinforced	Breaking load test	IS 398 (Part 3) Cl. 12.2
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 3: aluminium conductors, aluminized-steel reinforced	Elongation test	IS 398 (Part 3) Cl. 12.3.2
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 3: aluminium conductors, aluminized-steel reinforced	Torsion test	IS 398 (Part 3) Cl. 12.3.1
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminium conductors for overhead transmission purposes part 3: aluminium conductors, aluminized-steel reinforced	Wrapping test	IS 398 (Part 3) Cl. 12.4
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminum alloy stranded conductors for overhead lines - AL59 conductors	Elongation test	SS 4240814 Cl. 5
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminum alloy stranded conductors for overhead lines - AL59 wire	Elongation test	SS 4240813 Cl. 1.2
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminum alloy stranded conductors for overhead lines - AL59 wire	Tensile strength test	SS 4240813 Cl. 1.2
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of aluminum alloy stranded conductors for overhead lines - AL59 wire	Wrapping test	SS 4240813 Cl. 1.3
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of concentric lay stranded overhead electrical conductors containing one or more gap(s)	Breaking strength of wires	IEC 62420 Cl. 6.3.6
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of concentric lay stranded overhead electrical conductors containing one or more gap(s)	Cross-sectional area	IEC 62420 Cl. 6.3.1
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of concentric lay stranded overhead electrical conductors containing one or more gap(s)	Tensile Test on Joints in Aluminium Wire	IEC 62420 Cl. 6.2.2
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of Conductors for overhead lines - round wire concentric lay stranded conductors	Elongation test	BS EN 50182 Cl. 6.5.2
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Appearance	IEC 62641 Cl. 6.4.1



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<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	7 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Bending	IEC 62641 Cl. 6.4.6
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Elongation	IEC 62641 Cl. 6.4.4
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Tensile strength	IEC 62641 Cl. 6.4.3
78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Tensile Test on Joints in aluminium wire	IEC 62641 Cl. 5
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Thermal resistance	IEC 62641 Cl. 6.4.8
80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - Aluminium and aluminium alloy wires for concentric lay stranded conductors	Wrapping	IEC 62641 Cl. 6.4.5
81	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - aluminium conductor steel supported (ACSS)	Tensile strength test	BS EN 50540 Cl. 6.5.2
82	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - aluminium conductor steel supported (ACSS)	Thickness of Aluminum cladding	BS EN 50540 Cl. 6.5.2
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Adherence of coating or cladding test	IEC 63248 Cl. 7.4.5.2
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Aluminium cladding thickness test	IEC 63248 Cl. 7.4.5.1.2
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Coating adherence heat resistance test	IEC 63248 Cl. 7.4.8
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Elongation	IEC 63248 Cl. 7.4.3
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Stress at 1% extension	IEC 63248 Cl. 7.4.3
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines - coated or clad metallic wire for concentric lay stranded conductors	Tensile strength	IEC 63248 Cl. 7.4.3





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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	8 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines – coated or cladded metallic wire for concentric lay stranded conductors	Tensile Test on Joints in aluminium wire	IEC 63248 Cl. 6
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines – coated or cladded metallic wire for concentric lay stranded conductors	Torsion test	IEC 63248 Cl. 7.4.4.1
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines – coated or cladded metallic wire for concentric lay stranded conductors	Uniformity of zinc and zinc-aluminium coatings (or dipping test)	IEC 63248 Cl. 7.4.5.3
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines – coated or cladded metallic wire for concentric lay stranded conductors	Visual test	IEC 63248 Cl. 7.4.1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines – coated or cladded metallic wire for concentric lay stranded conductors	Wrapping test	IEC 63248 Cl. 7.4.4.2
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines – coated or cladded metallic wire for concentric lay stranded conductors	Zinc or zinc-aluminium alloy coating mass	IEC 63248 Cl. 7.4.5.1.1
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of conductors for overhead lines aluminum-magnesium-silicon alloy wires	Tensile strength test	BS EN 50183 Cl. 11.3
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of galvanized strand for earthing	Torsion test	IS 12776 Cl. 8.6
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of galvanized strand for earthing	Elongation test	IS 12776 Cl. 8.2
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of galvanized strand for earthing	Tensile strength test	IS 12776 Annex A
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of galvanized strand for earthing	Wrapping test	IS 12776 Cl. 8.4
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of Overhead electrical conductors formed wire, concentric lay, stranded conductors	Breaking strength of wires	IEC 62219 Cl. 6.6.4
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of overhead electrical conductors formed wire, concentric lay, stranded conductors	Elongation test	IEC 62219 Cl. 5.8.2
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of round wire concentric lay overhead electrical stranded conductors	Breaking strength of wires	IEC 61089 Cl. 6.6.4



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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	9 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of round wire concentric lay overhead electrical stranded conductors	Diameter	IEC 61089 Cl. 6.6.1.3
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductor - AL59	Breaking load test	SS 4240814 Cl.5
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductor - bare overhead-aluminium and aluminium alloy	Dimensions	AS 1531 Cl. 4.2.1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductor - bare overhead-aluminium and aluminium alloy	Percentage elongation test	AS 1531 Cl. 4.2.3
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductor - bare overhead-aluminium and aluminium alloy	Ultimate tensile stress test	AS 1531 Cl. 4.2.2
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductor - bare overhead-aluminium and aluminium alloy	Wrapping test	AS 1531 Cl. 4.2.4
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors - HTLS	Bending test on aluminum clad core strands	PGCIL Specification Section VII B Annexure A Cl. 13
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors - HTLS	Compression test on aluminum clad core strands	PGCIL Specification Section VII B Annexure A Cl. 14
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors - HTLS	Thickness of aluminum on aluminum clad strands	PGCIL Specification Section VII B Annexure A Cl. 23
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors - HTLS	Heat resistance test on aluminium alloy wire	PGCB Specification Volume 2 Annex 11-4 Cl. 1.12
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines — round wire concentric lay stranded conductors	Welding on aluminium wires	BS EN 50182 Cl. 6.5.3
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Elongation test	BS EN 50189 Cl. 11.5.1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Adherence of zinc coating	BS EN 50189 Cl. 11.7
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Mass of Zinc coating	BS EN 50189 Cl. 11.6



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	10 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Tensile strength test	BS EN 50189 Cl. 11.4
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Torsion test	BS EN 50189 Cl. 11.5.2
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Uniformity of Zinc coating	BS EN 50189 Cl. 11.8
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Visual test	BS EN 50189 Cl. 11.1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Wrapping test	BS EN 50189 Cl. 11.5.3
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines - aluminium conductor steel supported (ACSS)	Elongation test	BS EN 50540 Cl. 6.5.2
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines — round wire concentric lay stranded conductors	Cladding thickness	BS EN 50182 Cl. 6.5.2
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines — round wire concentric lay stranded conductors	Stress at 1% extension	BS EN 50182 Cl. 6.5.2
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines — round wire concentric lay stranded conductors	Tensile strength test	BS EN 50182 Cl. 6.5.2
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines aluminum-magnesium-silicon alloy wires	Elongation test	BS EN 50183 Cl. 11.3
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Individual wires of stranded conductors for overhead lines aluminum-magnesium-silicon alloy wires	Wrapping test	BS EN 50183 Cl. 11.4
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal fittings of insulators for overhead power lines with nominal Voltage greater than 1000 V part 1: general requirements and tests	Dimensional verification	IS 2486 (Part 1) Cl. 8
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Round wire concentric lay overhead electrical stranded conductors	Conductor diameter	IEC 61089 Cl. 6.6.2
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Round wire concentric lay overhead electrical stranded conductors	Lay ratio and direction of lay	IEC 61089 Cl. 6.6.6





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	11 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Round wire concentric lay overhead electrical stranded conductors	Linear density - mass per unit length	IEC 61089 Cl. 6.6.3
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Round wire concentric lay overhead electrical stranded conductors	Stress strain test	IEC 61089 Annex B
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Round wire concentric lay overhead electrical stranded conductors	Tensile test of the conductor	IEC 61089 CL. 6.5.3
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel wire and wire products — nonferrous metallic coatings on steel wire part 2: zinc or zinc alloy coatings	Dipping test	BS EN 10244-2 Cl. 5.3
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors - HTLS	Radial crush test	PGCIL Specification Section VII B Annexure A Cl. 7
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors - HTLS	Creep test	PGCIL Specification Section VII B Annexure A Cl. 5
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors - HTLS	High temperature endurance & Creep test	PGCIL Specification Section VII B Annexure A Cl. 1.6
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors - HTLS	Stress strain test at elevated temperature	PGCIL Specification Section VII B Annexure A Cl. 1.5
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors - HTLS	UTS test on stranded conductor at elevated temperature	PGCIL Specification Section VII B Annexure A Cl. 2.ii
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors - HTLS	UTS test on stranded conductor at room temperature	PGCIL Specification Section VII B Annexure A Cl. 2.i
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stranded conductors for overhead lines — round wire concentric lay stranded conductors	Inertness test	EN 50182 Cl. 6.4.3, 5.5.7
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Apperance	IEC 62004 Cl. 7.3.1
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Diameter	IEC 62004 Cl. 7.3.2
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Elongation test	IEC 62004 Cl. 7.3.4



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	12 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Tensile stress	IEC 62004 Cl. 7.3.3
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Thermal-resistant aluminium alloy wire for overhead line conductor	IEC 62004 Cl. 7.3.1
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Thermal-resistant property	IEC 62004 Cl. 7.3.6
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Thermal-resistant aluminium alloy wire for overhead line conductor	Wrapping test	IEC 62004 Cl. 7.3.7
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Zinc coated articles	Uniformity of Zinc coating	IS 2633
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Zinc-coated steel wires for stranded conductors	Elongation test	IEC 60888 Cl. 10.3.a
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Zinc-coated steel wires for stranded conductors	Tensile test	IEC 60888 Cl. 10.2
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Zinc-coated steel wires for stranded conductors	Torsion test	IEC 60888 Cl. 10.3.b
153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Zinc-coated steel wires for stranded conductors	Wrapping test	IEC 60888 CL. 10.3.C
154	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Aluminium and steel - stranded conductors for overhead lines	Creep test	SS 112318
155	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Measurement of lay ratio / direction of lay	IS 398 (Part 2) Cl. 13.8
156	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Stress strain test	IS 398 (Part 2) Cl. 13.11
157	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Surface condition test	IS 398 (Part 2) Cl. 13.9
158	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Aluminium conductor for overhead transmission purposes. part 2: aluminium conductors - galvanized steel - reinforced	Ultimate breaking load on stranded conductor	IS 398 (Part 2) Cl. 13.10



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	13 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
159	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Breaking load test	IS 398 (Part 5) Cl. 13.5.1
160	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Measurement of lay ratio test	IS 398 (Part 5) Cl. 13.4
161	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Surface condition test	IS 398 (Part 5) Cl. 13.10
162	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductor for overhead transmission purposes. part 5: aluminium conductors - galvanized steel - reinforced for extra high voltage (400 kV and above)	Visual examination	IS 398 (Part 5) Cl. 13.2
163	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductors for overhead transmission purposes part 4: aluminium alloy stranded conductors (aluminium-magnesium-silicon type)	Lay ratio	IS 398 (Part 4) Cl. 3.1.4
164	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductors for overhead transmission purposes part 3: aluminium conductors, aluminized-steel reinforced	Lay ratio	IS 398 (Part 3) Cl. 2.4
165	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminium conductors for overhead transmission purposes part 1: aluminium stranded conductors	Measurement of lay ratio test	IS 398 (Part 1) Cl. 12.6
166	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminum alloy stranded conductors for overhead lines - AL59 conductors	Conductor strength	SS 4240814 Cl. 5
167	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminum alloy stranded conductors for overhead lines - AL59 conductors	Long term creep test	SS 4240814 Clause 6
168	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminum alloy stranded conductors for overhead lines - AL59 conductors	Mass per length	SS 4240814 Cl. 7
169	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aluminum alloy stranded conductors for overhead lines - AL59 conductors	Measurement of lay ratio test	SS 4240814 Table 3
170	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductor	Lay length	AS 3822 CL. 6.1.5
171	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductor	Lay ratio	AS 3822 CL. 6.1.5
172	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Breaking load	AS 3822 Cl. 6.2





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	14 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
173	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Coefficient of thermal elongation	AS 3822 CL. 6.3
174	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Conductor layer diameter	AS 3822 CL. 6.1.4
175	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Creep	AS 3822 Cl. 6.5
176	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Fatigue	AS 3822 Cl. 6.7
177	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Nominal cross-sectional area	AS 3822 CL. 6.1.6
178	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Stress/strain	AS 3822 Cl. 6.4
179	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Bare overhead conductors	Thermal ageing	AS 3822 CL. 6.8
180	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Bending test	ASTM B987/B987M Cl. 13
181	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Bending test on composite core	PGCIL Specification Section VII B Annexure A Cl. 17
182	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Brittle fracture test on polymer composite core	PGCIL Specification Section VII B Annexure A Cl. 16
183	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Density	ASTM B987/B987M Cl. 11
184	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Dimensions	ASTM B987/B987M Cl. 12
185	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Dye penetrant testing after bending test	ASTM B987/B987M Cl. 14
186	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Elongation test on core strands	PGCIL Specification Section VII B Annexure A Cl. 24.i



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	15 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
187	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Elongation tests on composite core / INVAR core wires	PGCB Specification Volume 2 Annex 11-4 Cl. 1.23
188	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Heat/Stress test	ASTM B987/B987M Cl. 17
189	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Strand Brittle fracture test (for polymer composite core only)	PGCB Specification Volume 2 Annex 11-4 Cl. 1.16
190	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Tensile test	ASTM B987/B987M Cl. 9
191	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Torsion test on composite core / INVAR core wires	PGCB Specification Volume 2 Annex 11-4 Cl. 1.23
192	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Carbon Fiber Thermoset Polymer Matrix Composite Core (CFC) for use in overhead electrical conductors	Torsion test on core strands	PGCIL Specification Section VII B Annexure A Cl. 24.ii
193	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Concentric lay stranded overhead electrical conductors containing one or more gap(s)	Annular gap	IEC 62420 Cl. 6.2.3
194	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Concentric- lay-stranded aluminum conductors, coated steel supported (ACSS)	Length of lay	ASTM B856- 18 Cl. 7
195	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Concentric-lay-stranded aluminum conductors, coated steel supported (ACSS)	Area of cross section	ASTM B856-18 Cl.13
196	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Concentric-lay-stranded aluminum conductors, coated steel supported (ACSS)	Direction of lay & lay ratio	ASTM B856-18 Cl. 7
197	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Concentric-lay-stranded aluminum conductors, coated steel supported (ACSS)	Rated strength of conductor	ASTM B856-18 Cl. 9
198	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductor and earth wire accessories for overhead lines part 4: non tension joints	Tensile Test/ Failing Load test	IS 2121 (Part 4) Cl. 6.4
199	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors - bare overhead - aluminium and aluminium alloy	Lay ratio and direction of lay	AS 1531 Cl. 3.4
200	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Determination of cross sectional area of Al	BS EN 50540 Cl. 6.4.6



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	16 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
201	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Inertness test	BS EN 50540 Cl. 6.4.3, 5.2.4
202	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Lay ratio and direction of lay	BS EN 50540 Cl. 6.4.4
203	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Mass per unit length	BS EN 50540 Cl. 6.4.7
204	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Number and type of wires	BS EN 50540 Cl. 6.4.5
205	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Stress strain test	BS EN 50540 Annex A
206	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - aluminium conductor steel supported (ACSS)	Tensile breaking strength	BS EN 50540 Cl. 6.4.10
207	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - round wire concentric lay stranded conductors	Number and type of wires	BS EN 50182 Cl. 6.4.5
208	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - round wire concentric lay stranded conductors	Properties of grease - Mass per unit length	BS EN 50182 Cl. 6.6.1
209	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Conductors for overhead lines - round wire concentric lay stranded conductors	Tensile breaking strength	BS EN 50182 Cl. 6.4.8
210	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Connectors for use between aluminium - to -aluminum or aluminum-to-copper conductors	Tensile strength	ANSI C119.4 Cl. 6.2.2
211	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Glass-fiber-reinforced plastic rod	Tensile test	ASTM D3916
212	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Hardware fittings and accessories for conductor and earthwire	Mechanical strength test	PGCIL Specification, Section VI A Annexure A, Cl. 1.5, 2.3, 2.10
213	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Hardware fittings and accessories for conductor and earthwire	Proof load test	PGCIL Specification, Section VI A Annexure A, Cl. 2.9
214	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	High temperature conductors for use on overhead transmission lines	Conductor thermal expansion	CIGRE 426 Cl. 4.8





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	17 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
215	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	High temperature conductors for use on overhead transmission lines	Temperature cycle	CIGRE 426 Cl. 4.17
216	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	High temperature conductors for use on overhead transmission lines	Torsional ductility	CIGRE 426 Cl. 4.11
217	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Hot dip galvanized coatings on fabricated iron and steel articles	Coating thickness	BS EN ISO 1461 Cl. 6.2
218	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Hot dipped galvanized coatings on round steel wires	Adhesion of zinc coating	IS 4826 Cl. 5
219	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Individual wires of overhead electrical conductors formed wire, concentric lay, stranded conductors	Tensile Test on Joints in Aluminium Wire	IEC 62219 Cl. 5.6
220	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Individual wires of stranded conductors for overhead lines - zinc coated steel wires	Stress at 1% extension	BS EN 50189 Cl. 11.3
221	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Metal fittings of insulators for overhead power lines with nominal Voltage greater than 1000 V part 1: general requirements and tests	Mechanical tests	IS 2486 (Part 1) Cl. 11
222	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Metal fittings of insulators for overhead power lines with nominal Voltage greater than 1000 V part 1: general requirements and tests	Slip strength test on clamps	IS 2486 (Part 1) Cl. 11.1
223	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Metal fittings of insulators for overhead power lines with nominal Voltage greater than 1000 V part 1: general requirements and tests	Visual examination	IS 2486 (Part 1) Cl. 5
224	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Optical ground wire (OPGW) for use on electric utility power lines	Creep test	IEEE 1138 Cl. 6.5.1.1
225	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Optical ground wire (OPGW) for use on electric utility power lines	Lay length & lay direction	IEEE 1138 Cl. 6.7.1 & 6.7.2
226	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Optical ground wire (OPGW) for use on electric utility power lines	Stress-strain test	IEEE 1138 Cl. 6.5.1.2
227	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Optical ground wire (OPGW) for use on electric utility power lines	Ultimate tensile strength test	IEEE 1138 Cl. 6.5.1.4
228	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors formed wire, concentric lay, stranded conductors	Tensile test of the conductor	IEC 62219 Cl. 6.5.3



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	KINECTRICS INDIA PRIVATE LIMITED, SY NO: 125, BANDA MAILARAM VILLAGE, HYDERABAD, SIDDIPET, TELANGANA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	18 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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
229	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors - stranded conductors	Creep test	IEC 61395
230	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors formed wire, concentric lay, stranded conductors	Conductor diameter	IEC 62219 Cl. 6.6.2
231	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors formed wire, concentric lay, stranded conductors	Cross-sectional area	IEC 62219 Cl. 6.6.1
232	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors formed wire, concentric lay, stranded conductors	Lay ratio and direction of lay	IEC 62219 Cl. 6.6.6
233	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors formed wire, concentric lay, stranded conductors	Linear density - mass per unit length	IEC 62219 Cl. 6.6.3
234	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead electrical conductors formed wire, concentric lay, stranded conductors	Stress strain test	IEC 62219 Annex B
235	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead lines - requirements and tests for fittings	Damage and failure load test / Vertical damage load and failure load test	IEC 61284 Cl. 11.3.1, 11.4.1
236	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead lines - requirements and tests for fittings	Dimensional verification	IEC 61284 Cl. 8
237	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead lines - requirements and tests for fittings	Proof load test	IEC 61284 Cl. 10
238	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead lines - requirements and tests for fittings	Tensile test	IEC 61284 Cl. 11.5.1
239	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Overhead lines - requirements and tests for fittings	Visual examination	IEC 61284 Cl. 7
240	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Round wire concentric lay overhead electrical stranded conductors	Cross-sectional area	IEC 61089 CL. 6.6.1
241	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Steel wire and wire products — nonferrous metallic coatings on steel wire part 2: zinc or zinc alloy coatings	Mass of coating	BS EN 10244-2 Cl. 5.2
242	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductor with grease	Drop point	BS EN 50182 Cl. 6.6.2



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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-9423	<b>Page No</b>	19 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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243	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductor with grease	Dropping point test	ASTM D566
244	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors - HTLS	Aeolian vibration test	PGCB Specification Volume 2 Annex 11-4 Cl. 1.10
245	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors - HTLS	Aeolian vibration test	PGCIL Specification Section VII B Annexure A Cl. 9
246	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors - HTLS	Axial impact test	PGCB Specification Volume 2 Annex 11-4 Cl. 1.7
247	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors - HTLS	Coefficient of linear expansion for core	PGCIL Specification Section VII B Annexure A Cl. 15
248	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors - HTLS	Radial crush test	PGCB Specification Volume 2 Annex 11-4 Cl. 1.8
249	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors - HTLS	Sheave test	PGCB Specification Volume 2 Annex 11-4 Cl. 1.6
250	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Axial impact test	PGCIL Specification Section VII B Annexure A Cl. 1.8
251	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Coefficient of linear expansion	PGCB Specification Volume 2 Annex 11-4 Cl. 1.15
252	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Salt Spray test	PGCIL Specification Section VII B Annexure A Cl. 11
253	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Sheave test	PGCIL Specification Section VII B Annexure A Cl. 6
254	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Temperature cycle test	PGCIL Specification Section VII B Annexure A Cl. 10
255	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Torsional ductility test	PGCB Specification Volume 2 Annex 11-4 CL. 1.9
256	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/A CCESSORIES	Stranded conductors -HTLS	Torsional ductility test	PGCIL Specification Section VII B Annexure A Cl. 8





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<b>Certificate Number</b>	TC-9423	<b>Page No</b>	20 of 20
<b>Validity</b>	14/04/2023 to 13/04/2025	<b>Last Amended on</b>	12/06/2023

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257	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors -HTLS	UTS test on stranded conductor	PGCB Specification Volume 2 Annex 11-4 Cl. 1.1
258	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors for overhead lines — round wire concentric lay stranded conductors	Lay ratio and direction of lay	BS EN 50182 CL. 6.4.4
259	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors for overhead lines — round wire concentric lay stranded conductors	Stress strain test	BS EN 50182 Annex C
260	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors with grease	Dropping point test	ISO 2176
261	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors, OPGW	Aeolian vibration	IEC 60794 1-2 Cl. 21
262	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors, OPGW	Crush	IEC 60794 1-2 Cl. 7
263	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Stranded conductors, OPGW	Sheave test (bending under tension)	IEC 60794 1-2 Cl. 20
264	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Zinc coated iron and steel articles	Mass of zinc coating	IS 6745