

Laboratory **Conductor Testing Laboratory of Hindusthan Urban Infrastructure Ltd., 321,325/1386, Champajhara, Malipada, khurda, Orissa**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5805** Page 1 of 6

Validity **12.06.2017 to 11.06.2019** Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I.	ELECTRICAL MATERIALS - CONDUCTORS			
1.	Aluminium Conductor- AAC ACSR AAAC ACAR AACSR AL-59 HTLS Conductor AL/Alloy Rod/Wire	Diameter	IS 398 (Part 1) Cl. 12.2 IS 398 (Part 2) Cl. 13.2 IS 398 (Part 4) Cl. 3.1.2 IS 398 (Part 5) Cl. 13.3 IEC 61089 Cl. 6.6.1.3 IEC 62004 Cl. 7.3.2 BS 215 (Part 1) Cl. 1.2 BS 215 (Part 2) Cl. 3.1 BS EN 50182 Cl. 6.5.2 ASTM B 230 Cl. 14.1 ASTM B 800 SS 4240814 Cl. 4	1.00 mm to 65.00 mm
		Breaking Load	IS 398 (Part 1) Cl. 12.3 IS 398 (Part 2) Cl. 13.3.1 IS 398 (Part 4) Cl. 12.2 IS 398 (Part 5) Cl. 13.5.2 IEC 61089 Cl. 6.6.4 IEC 62004 Cl. 7.3.3 BS 215 (Part 1) Cl. 4.3 BS 215 (Part 2) Cl. 4.3.1 BS EN 50182 Cl. 6.5.2 ASTM A 370 ASTM B 557 ASTM B 557M SS 4240814 Cl. 5	0.5 kN to 20 kN

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		Lay Ratio	IS 398 (Part 1) Cl. 12.6 IS 398 (Part 2) Cl. 13.8 IS 398 (Part 4) Cl. 3.1.4 IS 398 (Part 5) Cl. 13.4 IEC 61089 Cl. 6.6.6 IEC 62004 BS 215 (Part 1) Cl. 3.4.2 BS 215 (Part 2) Cl. 3.4.2 BS EN 50182 Cl. 5.5.5 SS 4240814	3.00 to 30.00
		Elongation	IS 398 (Part 1) IS 398 (Part 2) IS 398 (Part 4) Cl. 12.3 IS 398 (Part 5) IEC 61089 IEC 62004 Cl. 7.3.4 BS 215 (Part 1) Cl. 4.3 BS 215 (Part 2) Cl. 4.3.1 BS EN 50182 ASTM A 370 ASTM B 557 ASTM B 557M SS 4240814 SS 4240813	0.1% to 35 %

Mallika Gope
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Wrapping	IS 398 (Part 1) Cl. 12.4 IS 398 (Part 2) Cl. 13.5.1 IS 398 (Part 4) IS 398 (Part 5) Cl. 13.7.1 IEC 61089 IEC 60889 IEC 62004 Cl. 7.3.7 BS 215 (Part 1) Cl. 4.3 BS 215 (Part 2) Cl. 4.3.1 BS EN 50182 Cl. 6.5.2 ASTM B 498 SS 4240814 SS 4240813	Qualitative (1D to 6D)
		DC Resistance (Resistivity)	IS 398 (Part 1) Cl. 12.5 IS 398 (Part 2) Cl. 13.6 IS 398 (Part 4) Cl. 12.4 IS 398 (Part 5) Cl. 13.8 IEC 61089 IEC 60889 IEC 62004 Cl. 7.3.5 BS 215 (Part 1) Cl. 4.3 BS 215 (Part 2) Cl. 4.3.1 ASTM B 193 ASTM B 263 SS 4240814	1 mΩ to 10 Ω

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Galvanized Steel core & wire	Diameter	IS 398 (Part 2) Cl. 13.2 IS 398 (Part 5) Cl. 13.3 IEC 61089 Cl. 6.6.1.3 BS EN 50182 Cl. 6.5.2 BS 215 (Part 2) Cl. 3.1 IEC 61232 Cl. 4.4 ASTM B 230 Cl. 14.1 ASTM B 800 ASTM B 498 Cl. 14.3	1.0 mm to 15.0 mm
		Breaking Load	IS 398 (Part 2) Cl. 13.3.1 IS 398 (Part 5) Cl. 13.5.2 IEC 61089 Cl. 6.6.4 BS EN 50182 Cl. 6.5.2 BS 215 (Part 2) Cl. 4.3.2 IEC 61232 Cl. 6.3 ASTM B 557 ASTM B 557M ASTM A 370	2 kN to 20 kN
		Lay Ratio	IS 398 (Part 2) Cl. 13.8 IS 398 (Part 5) Cl. 13.4 IEC 61089 Cl. 6.6.6 BS EN 50182 Cl. 5.5.4 BS 215 (Part 2) Cl. 3.4.2 IEC 61232	5.00 to 30.00
		Torsion	IS 398 (Part 2) Cl. 13.4.1 IS 398 (Part 5) Cl. 13.6.1 IEC 61089 IEC 60888 BS EN 50182 Cl. 6.5.2 BS 215 (Part 2) Cl. 4.3.2 IEC 61232 Cl. 6.3.3	6 turns to 150 turns

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		Elongation	IS 398 (Part 2) Cl. 13.4.2 IS 398 (Part 5) Cl. 13.6.2 IEC 61089 IEC 60888 BS EN 50182 Cl. 6.5.2 BS 215 (Part 2) Cl. 4.3.2 IEC 61232, Cl. 6.3.2 ASTM B 557 ASTM B 557M ASTM A 370	0.1 % to 8 %
		Wrapping	IS 398 (Part 2) Cl. 13.5.2 IS 398 (Part 5) Cl. 13.7.2 IEC 61089 IEC 60888 BS EN 50182 Cl. 6.5.2 BS 215 (Part 2) Cl. 4.3.2 IEC 61232 ASTM B 498	Qualitative (1D to 6D)
		Mass of Zinc coating	IS 398 (Part 2) Cl. 13.7.2 IS 398 (Part 5) Cl. 13.9.2 IS 6745 IS4826 IEC 61089 IEC 60888 BS EN 50182 Cl. 6.5.2 BS 215 (Part 2) Cl. 4.3.2 IEC 61232 ASTM A 90M ASTM B 263	50 g/m ² to 600 g/m ²

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