Sterlite Power Transmission Ltd.-Testing Laboratory, Bhurkamunda, PO-Kalimandir Road, Jharsuguda, Odisha Laboratory

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

**Certificate Number** TC-5408 Page 1 of 3

Validity 31.03.2017 to 30.03.2019 Last Amended on 18.05.2018

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

## **CHEMICAL TESTING**

I.	METAL & ALLOYS			
1.	Galvanized Steel Wire	Mass of zinc	IS 6745 IEC 60888 ASTM B498 EN 50189	50 gm/m <sup>2</sup> to 600 gm/m <sup>2</sup>
2.	Galvanized Steel Wire	Uniformity of Zinc	IS:2633 EN 50189	Qualitative (1 dip/ min to 6 dip/ min)
3	Alluminium & Alluminium Alloy	Mg% Si%	ASTM -E1251	0.005 % to 0.030 % 0.045 % to 0.080%
	Conductor & Wire/Rod	Fe% Cu%		0.055 % to 0.22% 0.012 % to 0.035%
		Ti% V%		0.012 % to 0.035% 0.015 % to 0.035%

Ramprasath.R Convenor

Sterlite Power Transmission Ltd.-Testing Laboratory, Bhurkamunda, PO-Kalimandir Road, Jharsuguda, Odisha Laboratory

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

**Certificate Number** TC-5408 Page 2 of 3

Validity 31.03.2017 to 30.03.2019 Last Amended on 18.05.2018

SI.	Product / Material of Test	Specific Test Performed	•	Range of Testing / Limits of Detection
			performed	

## **ELECTRICAL TESTING**

I.	CONDUCTORS & CONDUCTING MATERIALS			
1.	Alluminium & Alluminium Alloy Conductor & Wire/Rod	DC Resistance	IS 398 (Pt. I ),(Cl. 12.5) IS 398 (Pt. II ),(Cl.13.6) IS 398 (Pt. 4 ), (Cl.12.4) IS 398 (Pt. 5 ), (Cl. 13.8) IEC 61089 , (Cl.6.2.2) ASTM B232 (Cl.11) ASTM B399, (Cl.11) EN 50182, (Cl.5.10)	0.35 mΩ to 19.999 mΩ

Ramprasath.R Convenor

Sterlite Power Transmission Ltd.-Testing Laboratory, Bhurkamunda, PO-Kalimandir Road, Jharsuguda, Odisha Laboratory

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

**Certificate Number** TC-5408 Page 3 of 3

Validity 31.03.2017 to 30.03.2019 Last Amended on 18.05.2018

	SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
ı				performed	

## **MECHANICAL TESTING**

I.	MECHANICAL PRO	PERTIES OF METALS	3	
1.	Aluminium & Aluminium Alloy	a) Diameter	IS 398 (Part 1) IS 398 (Part 2)	2.5 mm to 15 mm
	Conductor and Wire/ Rod	b) Tensile (Breaking Load, %Elongation)	IS 398 (Part 4) IS 398 (Part 5)	01kN to 50 kN
	]	c) Lay Ratio		10 to 17
		d) Wrapping	IS 398 (Part 2)	1.5 mm to 5.0 mm
2.	Galvanized Steel Core / Wire	a) Diameter	IS 398 (Part 1) IS 398 (Part 2)	2.5 mm to 15 mm
		b) Tensile (Breaking Load, %Elongation)	IS 398 (Part 4) IS 398 (Part 5)	1kN to 50 kN
		c) Lay Ratio		13 to 30
		d) Torsion	IS 398 (Part 2)	3 to 50 turns
		e) Wrapping	IS 398 (Part 2)	1.5 mm to 5.0 mm

Ramprasath.R Convenor