

Laboratory	Transmission Line Testing & Research Station, Larsen & Toubro Limited, NH 4 Bengaluru Highways, Neeravallur Village, Kancheepuram, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	01.04.2015
Certificate Number	T-1942	Valid Until	31.03.2017
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. PERFORMANCE TEST				
1.	Transmission Line Towers	Prototype Tests Bolt Slip Tests Normal Load/Broken Wire load Tests	IS 802 (Part 3): 1978 (RA 2013) IEC 60652 (2002-2006)	Tower Base: 0.5m X 0.5m to 35m X 35m Tower Height: 5m to 95m Maximum Compression/Uplift per Leg – 9810 kN Allowable Overturning Moment – 7,00, 000 kN-m Cross Arm Spread : 0.5 m to 70 m Load application: 0.39 kN to 981 kN
II. MECHANICAL PROPERTIES OF MATERIALS				
1.	Structural Steel	Yield Strength Tensile Strength % of Elongation % Reduction Area Bend Test	IS 1608: 2005 ISO 6892: 1998 IS 1599: 2012	Range: 0.5 kN to 1000 kN Load: 1000 kN Specimen : Flat : 3 mm to 65 mm thickness Round : 10 mm to 70 mm diameter Range: 4 mm to 25 mm thickness Available Mandrel Sizes: Radius of (4, 5, 8, 10, 14, 16, 20, 22, 25 & 32) mm

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