

Laboratory Current Infraprojects Private Limited (MEC Test House), A-27, Basant Vihar, Bajri Mandi Road, Vaishali Nagar West, Panchayawala, Jaipur, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6481

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Validity 05.03.2019 to 02.11.2019

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

AT LABORATORY				
I.	CABLES AND ACCESSORIES			
1.	PVC Insulated Wires, Control Cables & Power Cables, Aerial Bunched Cables/ Conductors	Tensile Strength (Aluminum)	IS 10810 (Part 2): 1984 (RA 2011)	1 N to 25000 N
		Heat shock	IS 10810 (Part 14): 1984 (RA 2011)	Qualitative
		Shrinkage	IS 10810 (Part 12): 1984 (RA 2011)	0.5 % to 5%
		Tensile Strength and Elongation at Break of Insulation	IS 10810 (Part 7): 1984 (RA 2011)	1 N to 25000 N 100 % to 500 %
		Thickness of Insulation, Sheath & Overall Diameter	IS 10810 (Part 6): 1984 (RA 2011)	0.5 mm to 100 mm
		Flammability	IS 10810 (Part 53): 1984 (RA 2011)	1 mm to 1000 mm
		Conductor Resistance	IS 10810 (Part 5): 1984 (RA 2011)	0.2 mΩ to 11 Ω
		Hot Set	IS 10810 (Part 30) :1984 (RA 2011)	1 % to 175 %
		Tensile Strength and Elongation at Break of Armoring	IS10810 (Part 37) :1984 (RA 2011)	1 N to 25000 N 1 % to 40 %
		Insulation resistance (At room temperature)	IS 10810 (Part 43):1984 (RA 2016)	1kΩ to 10 TΩ

Nand Kumar
Convenor

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Program Manager

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II.	SWITCHGEAR& PROTECTIVE EQUIPMENT			
1.	Relay	Pick-Up Value	IS 9124: 1979 (RA 2011)	24 V to 216 V
		Drop-Out Value		
		Time	IS 9124: 1979 (RA 2011)	0.1 s to 10 s
2.	Circuit Breakers for Over Current Protection for Household	Tripping Characteristics	IS/IEC 60898-1:2002 Clause 9.10.1	2 kA / Upto 3V 1 kA / Upto 6V 100 A / Upto 5V Up to 50A / Upto 10V Upto 250V/20A 0.0001 s to 9999 s
III.	ELECTRICAL MATERIALS- LIQUID DIELECTRIC MATERIALS			
1.	Transformer Oil	Electric Strength (BDV)	IS 6792:1992 (RA 2008)	10 kV to 90 kV
IV.	CONDUCTORS AND CONDUCTING MATERIALS			
1.	Aluminum Conductor, All Aluminum Conductor, ACSR, AAAC	Dimension / Diameter	IS 398 (Part 1)	0.5 mm to 100mm
		Elongation	IS 398 (Part 2)	1% to 500%
		Electrical resistance	IS 398 (Part 3)	0.2 mΩ to 11Ω
		Breaking load	IS 398 (Part 4)	1 N to 25000 N
		Wrapping (Aluminium Only)	IS 398 (Part 5)	Qualitative

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ELECTRICAL TESTING

AT SITE				
I.	MEASURING INSTRUMENTS- ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS			
1.	Single Phase / Three Phase / LT CT Operated Energy Meter	Accuracy	IS 15707: 2006	1 A to 500 A Upto 240 V Class 1.0, 2.0
II.	SWITCHGEAR & PROTECTIVE EQUIPMENT			
1.	Circuit Breakers for Over Current Protection for Household	Tripping Characteristics	IS/IEC 60898-1:2002 Clause 9.10.1	Upto 125 A 0.0001 s to 9999 s
III.	ILLUMINATION			
1.	Indoor and Outdoor Luminance	Light Level	IS 3646 (Part 1): 1992	10 lux to 2000 lux