

Laboratory	Global Power Research Institute, Unit of Saravana Global Energy Limited, Pethunayakankuppam, Kurinjipadi Post, Dist. Cuddalore		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	02.07.2013
Certificate Number	T-1096	Valid Until	01.07.2015
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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
			BIS	IEC	
I. TRANSMISSION LINE EQUIPMENT & ACCESSORIES					
1.	Insulators (Disc /Pin / Guy Strain & shackle Insulator Up to 33kV system Post Insulators/ Long rod or disc insulators String (all types) and Composite Insulator Hard ware fittings & Aluminum Conductors Upto 400kV system	Power frequency voltage withstand test (Dry/Wet)	731 (1971) (RA:2006) 2544 (1973)	60168 (2001) 60383 (1993) 60060-1 (1992)	Up to 800 kV (rms)
		Power frequency voltage flashover test (Dry/Wet)	(RA:2006) 2071-1 (1993) (RA:2009)	60060-2 (2000) 60437 (1997) 61109-2008	Up to 800 kV (rms)
		Lightning impulse withstand test (Dry)	2071-2 (1974) (RA:2006) 8263 (1976)	62217-2012 61284-1997 60506-1975	Up to 2000 kV (Peak)
		Lightning impulse 50% flashover test (Dry)	(RA:2009) 8269 (1976) (RA:2009)		Up to 2000 kV (Peak)
		Switching impulse voltage withstand test (Dry/Wet)	1445-1977 (RA:2009) 5300-1969		Up to 1200 kV (Peak)
		RIV Test	(RA:2009) 2486-4 (1981)		Up to 420 kV (rms)
		Visible corona test	(RA:2006) 398 -1995		Up to 420 kV (rms)
		Puncture test	2099-II-1986		200 kV
		Corona inception extinction	Power grid (Annexure-A		Up to 800 kV (rms)
		Voltage distribution test(Dry)	Section-III(Volume-IIB) Page 22) & NTPC specification (Spec no.CS-9560-572-2,Part-II Section-VI, Page EO-6/8, Clause 4)	5621 (1980) (RA:2009)	Up to 800 kV (rms)

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	Hollow insulators	Electrical Routine Test (Soundness of Wall)	62155 (2003)		
2.	Circuit breakers / Isolators Upto 400kV	Power frequency voltage withstand test (Dry/Wet)	9920-1(2002) (RA:2007) 9920-2(2001) (RA:2006)	62271-1-2007 62271-100 (2008) 62271-102 (2003)	Up to 800 kV (rms)
		Lightning impulse withstand test (Dry)	9920-3(1982) (RA:2007) 9920-4(1985) (RA:2007)	60694 (2002) 60060-1 (1992) 60060-2 (2000)	Up to 2000 kV (Peak)
		Switching impulse voltage withstand test (Dry)	13118 (1991) (RA:2007) 9921-1(1981) (RA:2007)	60437 (1997)	Up to 1200 kV (Peak)
		Visible corona test	9921-2(1982) (RA:2007)		Up to 420 kV (rms)
		Corona inception extinction	9921-3(1982) (RA:2007)		Up to 420 kV (rms)
		RIV Test	9921-4(1985) (RA:2007) 2071-1 (1993) (RA:2009) 2071-2 (1974) (RA:2006) 8263 (1976) (RA:2009) 8269(1976) (RA:2009)		Up to 420 kV (rms)

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			BIS	IEC	
3.	High Voltage Fuses Up to 33kV System	Power frequency voltage withstand test (Dry/wet)	2071-1 (1993) (RA:2009)	60060-1 (1992) 60060-2 (2000)	Up to 800 kV (rms)
		Lightning impulse withstand test (Dry)	2071-2 (1974) (RA:2006) 9385-1(1979) 9385-2(1980) 9385-3(1980)	60282-1 (2005) 60282-2 (1997)	Up to 2000 kV (Peak)

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