

Laboratory	Diamond Power Infrastructure Ltd.- Essen Ultra High Voltage Test Laboratory, Phase II, Village Vadadala, Tal. Savli, Dist. Vadodara, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	21.07.2014
Certificate Number	T-3045	Valid Until	20.07.2016
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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. CABLES & ACCESSORIES				
1.	Power Cables with Extruded Insulation from 1 kV to 30 kV	Voltage Test/ High Voltage Test	IEC-60502-2 -2014 (Cl. 16.4 & 18.1.8), IEC-60840-2011(Cl. 9.3), IEC 62067 -2011(Cl. 9.3), IS 7098(PART-2) -1985 (Cl.19.7) IS 7098 (PART-3) -1993 (Cl.20.17)	Voltage : Up to 500 kV / 1 kV
	Power Cables with Extruded Insulation above 30 kV to 150 kV	Partial Discharge Test	IEC-60502-2 -2014 (Cl. 16.3 & 18.1.4), IEC-60840-2011 (Cl. 9.2 & 12.3.4), IEC 62067 -2011 (Cl. 9.2 & 12.4.5), IS 7098(PART-2) -1985 (Cl.19.2) IS 7098 (PART-3) -1993 (Cl.20.10)	Voltage : Up to 50 pC / 0.1 pC
	Power Cables with Extruded Insulation above 150 kV to 220 kV			
	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltages from 3.3 kV Upto & Including 33 kV	Lighting Impulse Voltage Test/ Impulse Voltage Test	IEC-60502-2 -2014 (Cl. 18.1.7), IEC-60840-2011 (Cl. 12.3.7), IEC 62067 -2011 (Cl. 1.12,12.4.8 & 12.4.9), IS 7098(PART-2) -1985 (Cl.19.6) IS 7098 (PART-3) -1993 (Cl.20.15)	Voltage : Up to 1200 kV / 1 kV
	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltages from 66 kV Upto & Including 220 kV			

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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
	Power Cables with Extruded Insulation from 1 kV to 30 kV	Tan Delta Test Measurement/ Dielectric Power Factor Test	IEC-60502-2 -2014 (Cl. 18.1.5), IEC-60840-2011 (Cl. 12.3.5), IEC 62067 -2011 (Cl. 12.4.6), IS 7098(PART-2) -1985 (Cl.19.4) IS 7098 (PART-3) -1993 (Cl.20.12, 20.18 & 20.13)	Voltage: Up to 220 kV/Tanδ: 1 x 10 ⁻⁵
	Power Cables with Extruded Insulation above 30 kV to 150 kV			
	Power Cables with Extruded Insulation above 150 kV to 220 kV	Heating Cycle Voltage Test / Load Cycle Voltage Test	IEC-60502-2 -2014 (Cl. 18.1.6), IEC-60840-2011 (Cl. 12.3.4 & 12.3.6), IEC 62067 -2011 (Cl. 12.4.5 & 12.4.7), IS 7098(PART-2) -1985 (Cl.19.5) IS 7098 (PART-3) -1993 (Cl.20.14)	Voltage: Up to 500 kV / 1 kV Temp: 200°C /1°C
	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltages from 3.3 kV Upto & Including 33 kV			
	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltages from 66 kV Upto & Including 220 kV			

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