

Laboratory SKC Environ Lab Pvt. Ltd., B-7, II Cross, NGEF Industrial Estate,
Mahadevpura, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5640

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Validity 03.12.2017 to 02.12.2019

Last Amended on 18.12.2017

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

I.	ENVIRONMENTAL TEST FACILITY			
1.	Electrical, Electro Technical Automotive Apparatus Including Sub Assemblies Accessories and Components	Cold Test	IEC 60068-2-1: 2007 IEC 60068-2-14: 2009 IS 9000 (Part 2): 1977 (RA 2004) IS 9000 (Part 14): 1988 (RA 2003) MIL-STD-810F – 2000 Section 502.4 JSS 55555 : 2000 Rev2	Ambient to - 70 °C to 20°C Chamber size=1200 mm ³ Qualitative
		Dry Heat/ High Temperature	IEC 60068-2-2 : 2007 IEC 60068-2-14: 2009 IS 9000(Part 3): 1977 (RA 2004) IS 9000 (Part 14) : 1988 (RA 2003) ISO 16750-4: 2010, MIL-STD-810F-2000 Section 501.4 JSS 55555 : 2000 Rev2	Ambient to 200°C Chamber size = 1200 mm ³ Qualitative
		Damp Heat (Steady state & Cyclic)	IEC 60068-2-78 : 2012 IEC 60068-2-30: 2008 IEC 60068-2-3-67: 1997 IS 9000(Part 4): 2008 IS 9000(Part 5): 1981 (RA 2007) ISO 16750-4: 2010, MIL-STD-810F-2000 Section 507.4 JSS 55555 : 2000 Rev2 - Test Number 10	25 °C to 90 °C 40 % RH to 95 % RH Chamber size = 1200 mm ³

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		Temperature Shock/Rapid Change of temperature	IEC 60068-2-14 (Tests Na & Nb): 2009 IS 9000(Part 14/Sec I & II): 1988 MIL-STD-810F – 2000 Section 503.4 JSS 55555 : 2000 Rev2 - Test Number 22	-70°C to 190°C Transfer time < 10s Chamber size = 500 mm ³
		Change in Temperature Test (Temperature Cycling test)	IEC 60068-2-14 (Tests Na & Nb): 2009 IS 9000(Part 14/Sec I & II): 1988 ISO 16750-4 : 2010 IEC 60068-2-38 : 2009 JSS 55555 : 2000 Rev2 - Test Number 27	-70 °C to 200 °C Chamber size = 1200 mm ³
		Salt Spray Tetst	JIS Z 2371 : 1994 IEC 60068-2-11: 1981 IEC 60068-2-52: 1996 IS 9000(Part 11): 1983 (RA 2004) MIL-STD-810F-2000 Section 509.4 Salt Fog - MIL-STD-810G - 509.5 - II	Ambient to 50 °C Chamber size = 850 X550X650 mm
		Bump Test	IS 9000-7 (Sec II to Sec IV): 2006 JSS 55555 : 2000 Rev2 - Test Number 5	Qualitative Peak acceleration level 10g to 40g Duration of the pulse 16 to 6ms
		Shock	IS 9000(Part 7/ sec I): IEC 60068-2-27: 2008 MIL-STD-810F-2000 Section 516.5 ISO 16750-3	Peak aceleration level 15 g to 97g Duration of Pulse 10 to 2 ms (Half sine, Trapezoid, Saw tooth)

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		Vibration Sine, Random & Mixed	Sine : IS 9000(Part8)(RA 2003) IEC 60068-2-6:2007 JSS 55555: 2000 rev1 JSS 50101:1996(RA 2001) JIS D 1601:1995 Random IEC 60068-2-64:2008 IEC 61373 : 2010 Mixed Mode IEC 60068-2-80-Part 2-80 MIL-STD-810F – 2000 Section 514.5 ISO 16750-3 - Sections 4.1.2.7- 4.1.2.8 – ISO 16750-3:2007	Rated Force - 1100 Kgf Frequency – 5-3000 Hz Max. Displacement – 46mm Max. Acceleration - 100g Qualitativ
		Combined Temperature and vibration test	ISO 16750-3-2012	Rated Force - 1100 Kgf Frequency – 5-3000 Hz Max. Displacement – 46 mm Max. Acceleration - 100g Temperature -70 to +200°C Humidity 40 to 98% Chamber size = 1.2m ³
		Altitude test	MIL-STD-810F – 2000 Section 500.4 IEC 60068-2-13	2000mbar to 1 mbar Chamber Size - 1.0m ³
		Ozone test	DIN_53509-2_1994-11 ASTM D 1149-99 ISO 1431-I : 1989 JIS K 6259 ASTM D1171-99	20 to 200pphm

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MECHANICAL TESTING

I.	MECHANICAL PROPERTIES OF METALS			
1.	Metallic Components	Corrosion Test	ASTM B 117 Rev 2007a	Qualitative