Laboratory	RBEI Reliability Testing Laboratory, Robert Bosch Engineering and Business Solutions Private Limited, #730 Building, Hosur Road, Naganathapura, Bangalore, Karnataka	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-5765	Page 1 of 2
Validity	18.05.2018 to 17.05.2020	Last Amended on

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

ELECTRICAL TESTING

I.	ENVIRONMENTAL T	EST FACILITY		
1.	Road Vehicles- Environmental	Low - temperature tests	ISO16750-Part 4 Sec 5.1.1 IEC 60068-2-1	Ambient to (-) 40°C
	conditions and testing of Electronic Control	High - temperature tests	ISO16750-Part 4 Sec 5.1.2 IEC 60068-2-2	Ambient to (+)125°C
		Temperature Step test	ISO16750-Part 4 Sec 5.2	(-) 40 °C to + 125 °C
	Units, Components And Gadgets	Temperature Cycle with specified change rate	ISO16750-Part 4Sec 5.3.1 IEC60068-2-14, Test Nb	(-) 40 °C to + 125 °C
		Rapid change of temperature with specified transition duration	ISO16750-Part 4 Sec 5.3.2 IEC60068-2-14, test Na	(-) 40 °C to + 125 °C
		Humid heat, cyclic test	ISO16750-Part 4 Sec 5.6 IEC 60068-2-30 IEC 60068-2-38	Humidity Range: 30 % to 95% RH @ + 25 °C to + 85°C
		Salt spray tests- Salt mist test Corrosion test	ISO16750-Part 4 IEC60068-2-11 Test Ka IEC60068-2-52 Test Kb	Temperature range: +25°C to +55°C Humidity: 95 % RH
		Sinusoidal Vibration	ISO16750-Part 3 IEC 60068-2-6	Frequency: 10Hz to 2000Hz Acceleration level: 0.1 g to 60 g for weight Upto 3.5 kg 0.1 g to 8 g for weight Upto 400 kg Displacement: Upto 50.8 mm

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Random Vibration	IEC 60068-2-64	Frequency: 10Hz to 2000Hz Acceleration level: 60 GRMS
		Combined Temperature and Vibration test	ISO16750-Part 3 (E)	Sine Frequency: 10Hz to 2000Hz Acceleration level: 0.1 g to 60 g for weight Upto 3.5 kg 0.1 g to 8 g for weight Upto 400 kg Displacement: Upto 50.8 mm Random: Frequency: 10 Hz to 2000 Hz Acceleration level: 60 GRMS Temperature : (-) 40 °C to + 125 °C Humidity Range: 30% to 95% RH @ + 25 °C to + 85 °C
		Mechanical Shock	ISO16750-Part 3 (E) IEC 60068-2-27	Acceleration level upto 50 g for 6 ms and 50 g for 11ms
		Free Fall test	ISO16750-Part 3 IEC 60068-2-31-05	Drop height : 1m free fall