

Laboratory **Bharat Seats Limited, Plot No. 1, Maruti Suzuki Joint Venture Complex, Gurgaon, Haryana**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7826**

Page 1 of 2

Validity **30.08.2018 to 29.08.2020**

Last Amended on **30.01.2019**

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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MECHANICAL TESTING

I.	AUTOMOTIVE COMPONENTS			
1.	Seat Back	Seat Back Strength	AIS-016:2000, Clause 5.2 ECE R-17:2014, Clause 5.15 IS 15546:2005	Load :0.2kN to 2.5 kN (58Nm to 700Nm)
		Energy Dissipation (Only for deceleration)	AIS-016:2000, Clause 5.8.5 ECE R-17:2014, Clause 5.2.3, 5.2.4.2 IS 15546:2005	Acceleration: 0.2 g to 250 g
2.	Head Restraint	Head Restraint- Performance Test (For front seat, and rear seat with two O/B headrests only)	AIS-016:2000, Clause 5.4 ECE R-17:2014, Clause 5.12, 5.13 IS 15546:2005	Load:200 N to 2500 N
		Height	AIS-016:2000, Clause 5.5 ECE R-17:2014, Clause 5.6 IS 15546:2005	Height: 0.1 mm to1000 mm
		Width	AIS-016:2000, Clause 5.6 ECE R-17:2014, Clause 5.11 IS 15546:2005	Width:2 mm to 300 mm
		Gap	AIS-016:2000, Clause 5.7 ECE R-17:2014, Clause 5.10 IS 15546:2005	Gap:2 mm to 100 mm

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3.	Seat	H-Point Measurement	AIS-016:2000, Clause 5.7 ECE R-17:2014, Clause 6.7 IS 15546:2005 IS 13749:2009	Y & Z Co-ordinate: 0.1 mm to 300 mm
4.	Steel-Tubes, Bars, Sheets	Tensile Strength	IS 1608:2005	Load: 8 kN to 390 kN
5.	Seat Back Assy.	Vibration Durability Test for Seat Back	TM Lab 10	Sagging: 0.1 mm to 20 mm Load: 200 N to 1000 N
6.	Seat Cushion Assy.	Vibration Durability Test for Seat Cushion	TM Lab 09	Sagging: 0.1 mm to 20 mm Load: 200 N to 2000 N
7.	Frame Assy.	Horizontal Backward Moment Loading	TM Lab 07	Deflection Angle: 1° to 30° Load: 0.2 kN to 5 KN (107 Nm to 2000 Nm)
		R & L 45 Degree Moment Durability Test	TM Lab 06	Deflection Angle: 1° to 30° Load: 200 N to 1000 N
		Forward & Backward Moment Durability Test	TM Lab 08	Deflection Angle: 1° to 30° Load: 200 N to 2500 N