National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MARELLI MOTHERSON AUTOMOTIVE LIGHTING INDIA PVT. LTD., GAT NO. 148-150, VILLAGE AMBETHAN, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10114 **Page No** 1 of 3

Validity 01/12/2021 to 30/11/2023 **Last Amended on** 23/12/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & elctronic Items	Thermal Stability	TL 909 cls. 4.9 (excluding Cl. 4.27)
2	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Cold Test	IEC 60068-2-1
3	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Cold Test	IS 9000-2 Sec 1 to 4
4	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Combined Temperature & Vibration Test	IEC 60068-2-64
5	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Combined Temperature & Vibration Test	ISO 16750-3
6	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Damp Heat Cycle (12 h+12h Cycle)	IEC 60068-2-30
7	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Damp Heat Cycle (12h+12h cycle)	IS 9000-5 Sec 1 & 2
8	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Damp Heat Test	IEC 60068-2-78
9	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Damp Heat Test	IS 9000-4
10	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Dry Heat Test	IEC 60068-2-2
11	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Dry Heat Test	IS 9000-3 Sec 1 to 5
12	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Dry Heat Test	JIS D5500
13	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Random Vibration Test	IEC 60068-2-64

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Accreditation Standard	ISO/IEC 17025:2017		
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14	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Rapid Change of temperature	IEC 60068-2-14-Na
15	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Rapid Change of Temperature	IS 9000-14
16	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Rapid Change of Temperature	ISO 16750-4
17	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Resistance to Corrosion	ISO 9227
18	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & electronic Items	Resistance to Environmental Cycle	PV 1200 , TL 207
19	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Resonance Frequency Detection Test	JIS D1601
20	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Salt Mist	IS 9000-11
21	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Salt Mist Test	IEC 60068-2-11
22	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Sweep Vibration Endurance Test	JIS D1601 Clause 5.4
23	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Vibration Function Test	JIS D1601 Clause 5.2
24	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Vibration Function Test	SAE J575 Clause 4.2.2
25	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Water Spray Proof Test	IEC 60529 Clause 14.2.4.a
26	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Water Spray Proof Test	IS 9000 (Part 16)
27	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items	Water Spray Proof Test	JIS D5500

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28	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items & Metal Parts	Resistance to Corrosion	ASTM B117
29	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items & Metal Parts	Resistance to Corrosion	JIS D5500
30	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items & Metal Parts	Resistance to Corrosion	JIS H8502
31	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronic items, Metallized Parts	Condensed Water Test	DIN EN ISO 6270-2
32	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & Electronics Items	Forced Air Aging Without Load & With Load	TL 956 Cls. 7.6 & 7.7
33	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical & electronics items	Testing the Leak tightness against spray Water	PV 3501
34	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Head Lamp & Rear Lamp	Color Measurement For x-Co-ordinates , y-Co-ordinates	ECE R48
35	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Head Lamp & Rear Lamp	Color measurement For x-Co-ordinates , y-Co-ordinates	AIS010 part 5 Rev .1
36	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lighting Devices Head Lamp , High Beam , Low beam , Cornering , Front Fog	Luminous Intensity measurement test	ECE 149,
37	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lighting Devices Headlamp , Low Beam, High Beam,	Luminous Intensity measurement test	AIS 010 (part 1,4) Rev 1
38	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lighting Devices- DRL, Direction indicator , Front & Rear Fog, Cornering, Stop, Position, Reverse	Luminous Intensity measurement test	AIS012 (Part 1,2,3,5,6,7,10)
39	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Stop, Position, Reversing, Rear fog Lamp, Rear & front Direction indicator , DRL	Luminous Intensity measurement test	ECE 148