



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**MARELLI MOTHERSON AUTOMOTIVE LIGHTING INDIA
PVT. LTD.**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

GAT NO. 148-150, VILLAGE AMBETHAN, PUNE, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-10114

Issue Date: 01/12/2021

Valid Until:

30/11/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity: Marelli Motherson automotive lighting India Pvt Ltd.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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 & electronic 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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| 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 |