



GOVERNMENT OF INDIA MINISTRY OF COMMUNICATIONS DEPARTMENT OF TELECOMMUNICATIONS TELECOMMUNICATION ENGINEERING CENTRE

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001

CERTIFICATE OF DESIGNATION

M/S MATRIX TEST LABS, DELHI

has been assessed and designated as Conformity Assessment Body (CAB) for its facilities at

Plot No. 28, Badli Industrial Area, Phase-II, Delhi -110042

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/47

Issue Date: 23/05/2025 Validity: 20/05/2025 to 19/05/2028

This Certificate remains valid for the Scope of Designation as specified in the Annexure subject to the continued validity of NABL Accreditation and satisfied compliance to the Standards/specifications against which lab has been designated and strict compliance to the relevant terms and conditions of TEC CAB Designation Scheme.

(To see the scope of designation of this laboratory, you may also visit TEC website www.tec.gov.in)

Signed for and on behalf of TEC

Sanjeev Kumar Arya Director (CA) For Designating Authority TEC

Certificate No: TEC/MRA/CAB/IND-D/47 dated 23/05/2025 issued to M/s Matrix Test Labs, Delhi. Plot No. 28, Badli Industrial Area, Phase-II, Delhi -110042.



Validity: - 20/05/2025 to 19/05/2028

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 3 NO. TEC 04019:2023.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

- 1. It shall ensure that it maintains its accreditation status from any recognized Indian accreditation body like NABL during validity period of certificate.
- 2. It shall follow the stipulated procedures, rules and policies laid down by Designating Authority (DA) or Mutual Recognition Agreement (MRA)* partner for testing and evaluation.
- 3. In respect of tests for which it is seeking designation, it shall have no interest whatsoever in any business to carry on testing in an unfair or biased manner.
- 4. It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.
- 5. It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.
- 6. It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.
- 7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.
- 8. It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.

^{*}Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence

- a) Cessation of its business of conformity assessment for which it is Designated or accredited
- b) Changes in its legal, commercial, or Organizational status
- c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
- d) Change of premises

B. REFERENCE TO DESIGNATION STATUS

- 1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
- 2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
- 3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

C. POST-DESIGNATION SURVEILLANCE

As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

- 1. DA shall suspend or withdraw the designation of a CAB if
 - a. Its accreditation is withdrawn.
 - b. It is found that the CAB is not complying with the stipulated criteria or requirements.
 - c. It is guilty of any offence involving fraud or dishonesty.
 - d. DA concludes that there is a just cause for withdrawing the designation.
- 2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
- 3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

E. AMENDMENT TO THE SCHEME

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

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Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Matrix Test Labs, Delhi

Plot No. 28, Badli Industrial Area, Phase-II, Delhi -110042.

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| Sl. | Telecom Equipment/ | Test Parameter or Type of Testing | Standard/ |
|-----|--------------------------|-------------------------------------|---|
| No. | Product | restruction of type of resting | Specification |
| | | | × F *********************************** |
| 1. | Information | Components | IEC 60950-1: 2005+ |
| | Technology | Clause-1.5 | A1: 2009+A2:2013 |
| | Equipment- Safety | Power interface | IEC 60950-1: 2005+ |
| | Requirements | Clause-1.6 | A1: 2009+A2:2013 |
| | _ | Verification of Marking and | IEC 60950-1: 2005+ |
| | | Instructions | A1: 2009+A2:2013 |
| | | Clause-1.7 | |
| | | Protection from Electric Shock and | IEC 60950-1: 2005+ |
| | | Energy Hazards | A1: 2009+A2:2013 |
| | | Clause-2.1 | |
| | | SELV Circuits | IEC 60950-1: 2005+ |
| | | Clause-2.2 | A1: 2009+A2:2013 |
| | | Limited Current Circuits | IEC 60950-1: 2005+ |
| | | Clause-2.4 | A1: 2009+A2:2013 |
| | | Limited Power Source | IEC 60950-1: 2005+ |
| | | Clause-2.5 | A1: 2009+A2:2013 |
| | | Provisions for Earthing and Bonding | IEC 60950-1: 2005+ |
| | | Clause-2.6 | A1: 2009+A2:2013 |
| | | Over-Current and Earth Fault | IEC 60950-1: 2005+ |
| | | Protection in Primary Circuits | A1: 2009+A2:2013 |
| | | Clause-2.7 | |
| | | Electrical Insulation | IEC 60950-1: 2005+ |
| | | Clause-2.9 | A1: 2009+A2:2013 |
| | | Clearances, Creepage Distances and | IEC 60950-1: 2005+ |
| | | distances through Insulation | A1: 2009+A2:2013 |
| | | Clause-2.10 | |
| | | Wiring, Connection and Supply- | IEC 60950-1: 2005+ |
| | | General | A1: 2009+A2:2013 |
| | | Clause-3.1 | |

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| Sl. | Telecom Equipment/ | Test Parameter or Type of Testing | Standard/ |
|-----|--------------------|-------------------------------------|--------------------|
| No. | Product | | Specification |
| | | | |
| | Information | Connection to Mains Supply | IEC 60950-1: 2005+ |
| | Technology | Clause-3.2 | A1: 2009+A2:2013 |
| | Equipment- Safety | Wiring Terminals for External | IEC 60950-1: 2005+ |
| | Requirements | Conductors | A1: 2009+A2:2013 |
| | | Clause-3.3 | |
| | | Disconnection from the Mains Supply | IEC 60950-1: 2005+ |
| | | Clause-3.4 | A1: 2009+A2:2013 |
| | | Interconnection of Equipment | IEC 60950-1: 2005+ |
| | | Clause-3.5 | A1: 2009+A2:2013 |
| | | Mechanical Strength | IEC 60950-1: 2005+ |
| | | Clause-4.2 | A1: 2009+A2:2013 |
| | | Steady Force Test, 10N | IEC 60950-1: 2005+ |
| | | Clause-4.2.2 | A1: 2009+A2:2013 |
| | | Steady Force Test, 30N | IEC 60950-1: 2005+ |
| | | Clause-4.2.3 | A1: 2009+A2:2013 |
| | | Steady Force Test, 250N | IEC 60950-1: 2005+ |
| | | Clause-4.2.4 | A1: 2009+A2:2013 |
| | | Impact test to Enclosure | IEC 60950-1: 2005+ |
| | | Clause-4.2.5 | A1: 2009+A2:2013 |
| | | Drop Test | IEC 60950-1: 2005+ |
| | | Clause-4.2.6 | A1: 2009+A2:2013 |
| | | Stress Relief Test | IEC 60950-1: 2005+ |
| | | Clause-4.2.7 | A1: 2009+A2:2013 |
| | | High Pressure Lamps | IEC 60950-1: 2005+ |
| | | Clause-4.2.9 | A1: 2009+A2:2013 |
| | | Wall or Ceiling mounted Equipment | IEC 60950-1: 2005+ |
| | | Clause-4.2.10 | A1: 2009+A2:2013 |
| | | Edges and Corners | IEC 60950-1: 2005+ |
| | | Clause-4.3.1 | A1: 2009+A2:2013 |
| | | Handles and Manual Controls | IEC 60950-1: 2005+ |
| | | Clause-4.3.2 | A1: 2009+A2:2013 |

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| Sl. | Telecom Equipment/ | Test Parameter or Type of Testing | Standard/ |
|-----|--------------------------|-------------------------------------|--------------------|
| No. | Product | | Specification |
| | | | |
| | Information | Adjustable Controls | IEC 60950-1: 2005+ |
| | Technology | Clause-4.3.3 | A1: 2009+A2:2013 |
| | Equipment- Safety | Securing of Parts | IEC 60950-1: 2005+ |
| | Requirements | Clause-4.3.4 | A1: 2009+A2:2013 |
| | | Connection by Plugs and Sockets | IEC 60950-1: 2005+ |
| | | Clause-4.3.5 | A1: 2009+A2:2013 |
| | | Direct Plug-in Equipment | IEC 60950-1: 2005+ |
| | | Clause-4.3.6 | A1: 2009+A2:2013 |
| | | Heating Elements in Earthed | IEC 60950-1: 2005+ |
| | | Equipment | A1: 2009+A2:2013 |
| | | Clause-4.3.7 | |
| | | Batteries | IEC 60950-1: 2005+ |
| | | Clause-4.3.8 | A1: 2009+A2:2013 |
| | | Protection against Hazardous Moving | IEC 60950-1: 2005+ |
| | | Parts | A1: 2009+A2:2013 |
| | | Clause-4.4 | |
| | | Thermal Requirements | IEC 60950-1: 2005+ |
| | | Clause-4.5 | A1: 2009+A2:2013 |
| | | Opening in Enclosure | IEC 60950-1: 2005+ |
| | | Clause-4.6 | A1: 2009+A2:2013 |
| | | Resistance to Fire | IEC 60950-1: 2005+ |
| | | Clause-4.7 | A1: 2009+A2:2013 |
| | | Touch Current and Protective | IEC 60950-1: 2005+ |
| | | Conductor Current | A1: 2009+A2:2013 |
| | | Clause-5.1 | |
| | | Electric Strength | IEC 60950-1: 2005+ |
| | | Clause-5.2 | A1: 2009+A2:2013 |
| | | Abnormal Operating and Fault | IEC 60950-1: 2005+ |
| | | Conditions | A1: 2009+A2:2013 |
| | | Clause-5.3 | |

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| Sl. No. | Telecom Equipment/ Product | Test Parameter or Type of Testing | Standard/ Specification |
|------------|-------------------------------|------------------------------------|----------------------------|
| | | | |
| | Information | Connection to Telecommunication | IEC 60950-1: 2005+ |
| | Technology | Network | A1: 2009+A2:2013 |
| | Equipment-Safety | Clause-6 | |
| | Requirements | Connection to Cable Distribution | IEC 60950-1: 2005+ |
| | _ | System | A1: 2009+A2:2013 |
| | | Clause-7 | |
| 2. | Environmental | Low Temperature (Cold Cycle) | QM-333 ISSUE |
| | Testing for Telecom | | MARCH 2010 |
| | Equipment | High Temperature (Dry Heat) Cycles | QM-333 ISSUE |
| | | Test | MARCH 2010 |
| | | Tropical Exposure (Damp Heat) | QM-333 ISSUE |
| | | Cycle Test | MARCH 2010 |
| | | Rapid Temperature Cycling Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Damp Heat (Steady State) Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Vibration Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Sealing Test (Gas Tightness)/ | QM-333 ISSUE |
| | | High Altitude Test | MARCH 2010 |
| | | Water Immersion Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Corrosion Salt Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Drop Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Topple Test | QM-333 ISSUE |
| | | | MARCH 2010 |
| | | Fall Test | QM-333 ISSUE |
| | | | MARCH 2010 |

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| Sl. No. | Telecom Equipment/ Product | Test Parameter or Type of Testing | Standard/ Specification |
|------------|---|--|-------------------------------|
| | Environmental Testing for Telecom | Bump/Road Ability test Test | QM-333 ISSUE MARCH 2010 |
| | Equipment | Rain Test | QM-333 ISSUE MARCH 2010 |
| | | Dust Test | QM-333 ISSUE MARCH 2010 |
| 3. | Secondary cells and batteries containing | General Safety Considerations Clause-1.5 | IEC 62133-2:2017+ A1: 2021 |
| | alkaline or other non- acid electrolytes | General Clause-5.1 | IEC 62133-2:2017+ A1: 2021 |
| | (Nickel system & Lithium system)- | Insulation and Wiring Clause-5.2 | IEC 62133-2:2017+ A1: 2021 |
| | Safety Requirement | Venting Clause-5.3 | IEC 62133-2:2017+ A1: 2021 |
| | | Temperature, Voltage and Current Clause-5.4 | IEC 62133-2:2017+ A1: 2021 |
| | | Terminal Contract Clause-5.5 | IEC 62133-2:2017+ A1: 2021 |
| | | Assembly of Cells into Batteries Clause-5.6 | IEC 62133-2:2017+ A1: 2021 |
| | | Quality Plan Clause-5.7 | IEC 62133-2:2017+ A1: 2021 |
| | | Battery Safety Components Clause-5.8 | IEC 62133-2:2017+ A1: 2021 |
| | | Type Test and Sample Size Clause-6 | IEC 62133-2:2017+ A1: 2021 |
| | | Charging Procedures for Test Purposes (First procedure) Clause-7.1.1 | IEC 62133-2:2017+ A1: 2021 |

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| Sl. | Telecom Equipment/ | Test Parameter or Type of Testing | Standard/ |
|------|------------------------|---|-------------------|
| No. | Product | restrarameter or Type or Testing | Specification |
| 110. | Troduct | <u> </u> | Specification |
| | Secondary cells and | Charging Procedures for Test | IEC 62133-2:2017+ |
| | batteries containing | Purposes (Second Procedure) | A1: 2021 |
| | alkaline or other non- | Clause-7.1.2 | |
| | acid electrolytes | Continuous Charging at Constant | IEC 62133-2:2017+ |
| | (Nickel system & | Voltage (Cells) | A1: 2021 |
| | Lithium system)- | Clause-7.2.1 | |
| | Safety Requirement | Case Stress at High Ambient | IEC 62133-2:2017+ |
| | | Temperature (Batteries) Clause-7.2.2 | A1: 2021 |
| | | External Short Circuit (Cells) | IEC 62133-2:2017+ |
| | | Clause-7.3.1 | A1: 2021 |
| | | | IEC 62133-2:2017+ |
| | | External Short Circuit (Battery) Clause-7.3.2 | A1: 2021 |
| | | Free Fall | IEC 62133-2:2017+ |
| | | Clause-7.3.3 | A1: 2021 |
| | | Thermal Abuse (Cells) | IEC 62133-2:2017+ |
| | | Clause-7.3.4 | A1: 2021 |
| | | Crush (Cells) | IEC 62133-2:2017+ |
| | | Clause-7.3.5 | A1: 2021 |
| | | Over Charging of Battery | IEC 62133-2:2017+ |
| | | Clause-7.3.6 | A1: 2021 |
| | | Forced Discharging (Cells) | IEC 62133-2:2017+ |
| | | Clause-7.3.7 | A1: 2021 |
| | | Information for safety | IEC 62133-2:2017+ |
| | | Clause-8 | A1: 2021 |
| | | Marking | IEC 62133-2:2017+ |
| | | Clause-9 | A1: 2021 |
| | | | |
| | | | |
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| Sl. No. | Telecom Equipment/ Product | Test Parameter or Type of Testing | Standard/ Specification |
|------------|-------------------------------|---|----------------------------|
| | | | |
| 4. | Uninterruptible | Power Interface | IEC62040-1:2008 |
| | Power Supply (UPS) - | Clause-4.6 | |
| | Safety Requirement | Marking & Instructions-General Clause-4.7.1 | IEC62040-1:2008 |
| | | Power Rating Clause-4.7.2 | IEC62040-1:2008 |
| | | High Leakage Current Clause-4.7.13 | IEC62040-1:2008 |
| | | Battery Clause-4.7.20 | IEC62040-1:2008 |
| | | Protection against Electric Shock and Energy Hazards Clause-5.1 | IEC62040-1:2008 |
| | | Safety Extra Low Voltage Circuits- SELV Clause-5.2.1 | IEC62040-1:2008 |
| | | Limited Current Circuits Clause-5.2.3 | IEC62040-1:2008 |
| | | External Signaling Circuits Clause-5.2.4 | IEC62040-1:2008 |
| | | Limited Power Source Clause-5.2.5 | IEC62040-1:2008 |
| | | Protective Earthing and Bonding Clause-5.3 | IEC62040-1:2008 |
| | | AC and DC Power Separation Clause-5.4 | IEC62040-1:2008 |
| | | Over Current and Earth Fault Protection Clause-5.5 | IEC62040-1:2008 |

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| Sl. No. | Telecom Equipment/ Product | Test Parameter or Type of Testing | Standard/ Specification |
|------------|---|---|----------------------------|
| | 1 | | |
| | Uninterruptible Power Supply (UPS) - Safety Requirement | Protection of Personnel-Safety Interlocks Clause-5.6 | IEC62040-1:2008 |
| | Sarety Requirement | Clearance, Creepage Distance and Distance Through Insulation Clause-5.7 | IEC62040-1:2008 |
| | | Wiring, Connection and Supply- General Clause-6.1 | IEC62040-1:2008 |
| | | General Provisions for Connection to Power Clause-6.2.1 | IEC62040-1:2008 |
| | | Wiring Terminals for External Power Conductors Clause-6.3 | IEC62040-1:2008 |
| | | Mechanical Strength Clause-7.3 | IEC62040-1:2008 |
| | | Construction Details Clause-7.4 | IEC62040-1:2008 |
| | | Resistance to Fire Clause-7.5 | IEC62040-1:2008 |
| | | Battery Location Clause-7.6 | IEC62040-1:2008 |
| | | Temperature Rise Clause-7.7 | IEC62040-1:2008 |
| | | General Provisions for Earth Leakage Clause-8.1 | IEC62040-1:2008 |
| | | Electric Strength Clause-8.2 | IEC62040-1:2008 |
| | | | |

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| Sl. No. | Telecom Equipment/ Product | Test Parameter or Type of Testing | Standard/ Specification |
|------------|-------------------------------|-----------------------------------|----------------------------|
| | | | |
| | Uninterruptible | Abnormal Operating and Fault | IEC62040-1:2008 |
| | Power Supply (UPS) - | Conditions | |
| | Safety Requirement | Clause-8.3 | |
| | | Connection to Telecommunication | IEC62040-1:2008 |
| | | Networks | |
| | | Clause-9 | |

AD (CA), TEC

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