



सत्यमेव जयते



GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

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 -110 042

In the field of Testing

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

Issue Date: 20/05/2022

Valid Until: 19/05/2025

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

Prasanth Kumar
Deputy Director General (MTCTE)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/47 dated 20/05/2022 issued to
M/s Matrix Test Labs, Delhi
Plot No. 28, Badli Industrial Area,
Phase-II, Delhi -110 042



Validity: - 20/05/2022 to 19/05/2025

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 2 NO. TEC/DES-01/02.DEC.2017.

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 recognised 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 Organisational 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.

Sharma

[Signature]

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Matrix Test Labs, Delhi
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Certificate Number: TEC/MRA/CAB/IND-D/47

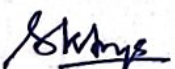
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Validity: 20/05/2022 to 19/05/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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1.	Information Technology Equipment- Safety Requirements	Components (Clause 1.5)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Power interface (Clause 1.6)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Verification of Marking and Instructions (Clause 1.7)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Protection from Electric Shock and Energy Hazards (Clause 2.1)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		SELV Circuits (Clause 2.2)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Limited Current Circuits (Clause 2.4)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Limited Power Source (Clause 2.5)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Provisions for Earthing and Bonding (Clause 2.6)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Over-Current and Earth Fault Protection in Primary Circuits (Clause 2.7)	IEC 60950-1: 2005+ A1: 2009+A2:2013


Director (CA), TEC


AD (CA), TEC

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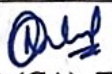
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Validity: 20/05/2022 to 19/05/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment- Safety Requirements	Electrical Insulation (Clause 2.9)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Clearances, Creepage Distances and distances through Insulation (Clause 2.10)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Wiring, Connection and Supply-General (Clause 3.1)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Connection to Mains Supply (Clause 3.2)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Wiring Terminals for External Conductors (Clause 3.3)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Disconnection from the Mains Supply (Clause 3.4)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Interconnection of Equipment (Clause 3.5)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Mechanical Strength (Clause 4.2)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Steady Force Test, 10N (Clause 4.2.2)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Steady Force Test, 30N (Clause 4.2.3)	IEC 60950-1: 2005+ A1: 2009+A2:2013


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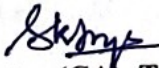
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	Information Technology Equipment- Safety Requirements	Steady Force Test, 250N (Clause 4.2.4)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Impact test to Enclosure (Clause 4.2.5)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Drop Test (Clause 4.2.6)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Stress Relief Test (Clause 4.2.7)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		High Pressure Lamps (Clause 4.2.9)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Wall or Ceiling mounted Equipment (Clause 4.2.10)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Edges and Corners (Clause 4.3.1)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Handles and Manual Controls (Clause 4.3.2)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Adjustable Controls (Clause 4.3.3)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Securing of Parts (Clause 4.3.4)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Connection by Plugs and Sockets (Clause 4.3.5)	IEC 60950-1: 2005+ A1: 2009+A2:2013
			Information


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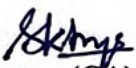
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Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Technology Equipment- Safety Requirements	Direct Plug-in Equipment (Clause 4.3.6)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Heating Elements in Earthed Equipment (Clause 4.3.7)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Batteries (Clause 4.3.8)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Protection against Hazardous Moving Parts (Clause 4.4)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Thermal Requirements (Clause 4.5)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Opening in Enclosure (Clause 4.6)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Resistance to Fire (Clause 4.7)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Touch Current and Protective Conductor Current (Clause 5.1)	IEC 60950-1: 2005+ A1: 2009+A2:2013
	Information Technology	Electric Strength (Clause 5.2)	IEC 60950-1: 2005+ A1: 2009+A2:2013


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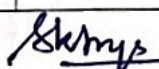
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment- Safety Requirements	Abnormal Operating and Fault Conditions (Clause 5.3)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Connection to Telecommunication Network (Clause 6)	IEC 60950-1: 2005+ A1: 2009+A2:2013
		Connection to Cable Distribution System (Clause 7)	IEC 60950-1: 2005+ A1: 2009+A2:2013
2. Environmental Testing for Telecom Equipment	Environmental Testing for Telecom	Low Temperature (Cold Cycle)	QM-333 ISSUE MARCH 2010
		High Temperature (Dry Heat) Cycles Test	QM-333 ISSUE MARCH 2010
		Tropical Exposure (Damp Heat) Cycle Test	QM-333 ISSUE 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)/ High Altitude Test	QM-333 ISSUE MARCH 2010


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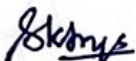
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment	Water Immersion Test	QM-333 ISSUE MARCH 2010
		Corrosion Salt Test	QM-333 ISSUE MARCH 2010
		Drop Test	QM-333 ISSUE MARCH 2010
		Topple Test	QM-333 ISSUE MARCH 2010
		Fall Test	QM-333 ISSUE MARCH 2010
		Bump/Road Ability test Test	QM-333 ISSUE MARCH 2010
		Rain Test	QM-333 ISSUE MARCH 2010
		Dust Test	QM-333 ISSUE MARCH 2010


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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
3.	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel system & Lithium system)- Safety Requirement	General Safety Considerations (Clause 1.5)	IEC 62133-2:2017+ A1: 2021
		General (Clause 5.1)	IEC 62133-2:2017+ A1: 2021
		Insulation and Wiring (Clause 5.2)	IEC 62133-2:2017+ A1: 2021
		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
			Secondary cells and


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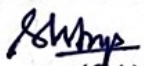
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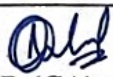
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	batteries containing alkaline or other non-acid electrolytes (Nickel system & Lithium system)- Safety Requirement	Charging Procedures for Test Purposes (Second Procedure) (Clause 7.1.2)	IEC 62133-2:2017+ A1: 2021
		Continuous Charging at Constant Voltage (Cells) (Clause 7.2.1)	IEC 62133-2:2017+ A1: 2021
		Case Stress at High Ambient Temperature (Batteries) (Clause 7.2.2)	IEC 62133-2:2017+ A1: 2021
		External Short Circuit (Cells) (Clause 7.3.1)	IEC 62133-2:2017+ A1: 2021
		External Short Circuit (Battery) (Clause 7.3.2)	IEC 62133-2:2017+ A1: 2021
		Free Fall (Clause 7.3.3)	IEC 62133-2:2017+ A1: 2021
		Thermal Abuse (Cells) (Clause 7.3.4)	IEC 62133-2:2017+ A1: 2021
		Crush (Cells) (Clause 7.3.5)	IEC 62133-2:2017+ A1: 2021
		Over Charging of Battery (Clause 7.3.6)	IEC 62133-2:2017+ A1: 2021
		Forced Discharging (Cells) (Clause 7.3.7)	IEC 62133-2:2017+ A1: 2021
	Secondary cells and batteries containing		


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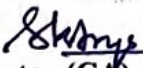
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	alkaline or other non-acid electrolytes (Nickel system & Lithium system)- Safety Requirement	Information for safety (Clause 8)	IEC 62133-2:2017+ A1: 2021
		Marking (Clause 9)	IEC 62133-2:2017+ A1: 2021
4.	Uninterruptible Power Supply (UPS) - Safety Requirement	Power Interface (Clause 4.6)	IEC62040-1:2008
		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
	Uninterruptible Power Supply (UPS) - Safety Requirement	Safety Extra Low Voltage Circuits-SELV (Clause 5.2.1)	IEC62040-1:2008


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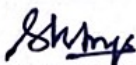
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS) - Safety Requirement	Limited Current Circuits (Clause 5.2.3)	IEC62040-1:2008
		External Signaling Circuits (Clause 5.2.4)	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
		Protection of Personnel-Safety Interlocks (Clause 5.6)	IEC62040-1:2008
		Clearance, Creepage Distance and Distance Through Insulation (Clause 5.7)	IEC62040-1:2008
		Wiring, Connection and Supply-General (Clause 6.1)	IEC62040-1:2008


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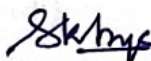
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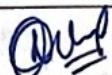
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS) - Safety Requirement	General Provisions for Connection to Power (Clause 6.2.1)	IEC62040-1:2008
		Wiring Terminals for External 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
		Abnormal Operating and Fault Conditions (Clause 8.3)	IEC62040-1:2008


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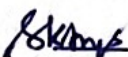
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
		Connection to Telecommunication Networks (Clause 9)	IEC62040-1:2008


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