



सत्यमेव जयते



ISO 9001:2015

**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

Electronics Test and Development Centre, Mohali.
has been assessed and designated as Conformity Assessment Body (CAB)

for its facilities at

B-108, Industrial Area, Phase-VIII, Mohali-160071, Punjab

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/46

Issue Date: 29/04/2022

Valid Until: 29/04/2025

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/46 dated 29/04/2022 issued to
Electronics Test and Development Centre, Mohali
B-108, Industrial Area, Phase-VIII, Mohali-160071, Punjab
Validity: - 30/04/2022 to 29/04/2025

Terms & Conditions

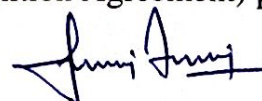
This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

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

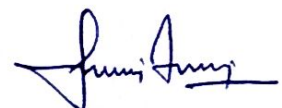
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

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.



SCOPE OF DESIGNATION
(ANNEXURE)

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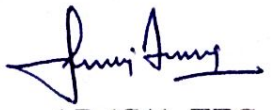
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Validity: 30/04/2022 to 29/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Information Technology-Equipment-Safety Requirement	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


Director (CA), TEC


AD (CA), TEC

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology-Equipment-Safety Requirement	Over-Current and Earth fault Protection in Primary Circuits Clause- 2.7	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Insulation Requirements Clause- 2.9	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Clearances and Creepage Distances Clause- 2.10.2, 2.10.3.1 to 2.10.3.4, 2.10.3.6 to 2.10.3.7, 2.10.3.9(a), 2.10.4.3 & 2.10.5 of RD	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Wiring, connection and supply- General Requirements Clause- 3.1	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Wiring terminals for Connection of External Conductors Clause- 3.3	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Disconnection from the main 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



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology-Equipment-Safety Requirement	Stability test Clause- 4.1	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Mechanical strength (Impact test) Clause- 4.2	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
		Touch Current and Protective Conductor Current Clause- 5.1	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Electric Strength Clause- 5.2	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Abnormal Operating and Fault Conditions Clause- 5.3	IEC 60950-1: 2005+ A1:2009 + A2:2013


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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
2.	EMI/EMC Testing for Telecommunication Equipment	Electrostatic Discharge Immunity Test IEC 61000-4-2:2008	TEC/SD/DD/EMC-221/05/OCT-16
		Electrical Fast Transient (EFT) IEC 61000-4-4:2012	TEC/SD/DD/EMC-221/05/OCT-16
		Surge Immunity Test IEC 61000-4-5:2014	TEC/SD/DD/EMC-221/05/OCT-16
3.	Environmental Testing for Telecom Equipment	Dry Cold (Low temperature) Test	QM-333 March 2010
		Dry heat (High Temperature) Test	QM-333 March 2010
		Temperature cycling Test	QM-333 March 2010
		Damp Heat (Steady state) Test	QM-333 March 2010
		Damp Heat (Cyclic) Test	QM-333 March 2010
		Salt Spray (Corrosion) Test	QM-333 March 2010



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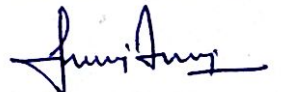
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Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Environmental Testing for Telecom Equipment	Damp Heat (Composite) Test	QM-333 March 2010
		Bump Test	QM-333 March 2010
		Vibration (Sinusoidal) Test	QM-333 March 2010
4.	Uninterruptible Power Supply (UPS)- Safety requirements	Power Interface Clause- 4.6	IEC 62040-1
		Fundamental Design Clause- 5.0	IEC 62040-1
		Protection against Electric Shock and Energy Hazards Clause- 5.1	IEC 62040-1
		Requirements for Auxiliary Circuits Clause- 5.2	IEC 62040-1
		Protective Earthing and Bonding Clause- 5.3	IEC 62040-1
		Protection of Personnel-Safety Interlocks Clause- 5.6	IEC 62040-1


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS)- Safety requirements	Clearance, Creepage Distance and Distance through Insulation Clause- 5.7	IEC 62040-1
		Stability Clause- 7.2	IEC 62040-1
		Mechanical Strength Clause- 7.3	IEC 62040-1
		Construction Details Clause- 7.4	IEC 62040-1
		Resistance to Fire Clause -7.5	IEC 62040-1
		Battery Location Clause- 7.6	IEC 62040-1
		Temperature Rise Clause- 7.7	IEC 62040-1
		Electrical Requirements and Simulated Abnormal Conditions General Provisions for Earth Leakage Clause- 8.1	IEC 62040-1



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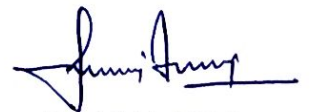
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS)- Safety requirements	Electric Strength Clause- 8.2	IEC 62040-1
		Abnormal Operating and Fault Conditions Clause- 8.3	IEC 62040-1



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