



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 Electrical Research and Development Association,
Vadodara**

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

ERDA Road, GIDC, Makarpura Industrial Estate Vadodara-390 010

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/62

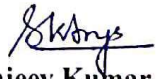
Issue Date: 20/04/2023

Validity: 20/04/2023 to 19/04/2026

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-I)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/62 dated 20/04/2023 issued to
M/s Electrical Research and Development Association, Vadodara
ERDA Road, GIDC, Makarpura Industrial Estate,
Vadodara-390 010



Validity: - 20/04/2023 to 19/04/2026

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.

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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

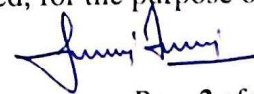
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

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)

Laboratory Name: M/s Electrical Research and Development Association, Vadodara
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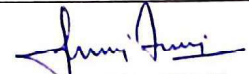
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Validity: 20/04/2023 to 19/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
1.	EMI/EMC Testing of Telecom Equipment	Electrostatic Discharge Immunity Test IEC 61000-4-2:2008	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Radio-Frequency Electromagnetic Field Immunity Test IEC 61000-4-3 :2010	TEC/SD/DD/EMC-221/05/OCT-16
		Electrical Fast Transient/Burst Immunity Test IEC 61000-4-4: 2012	TEC/SD/DD/EMC-221/05/OCT-16
		Surge Immunity Test IEC 61000-4-5: 2017	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity to Conducted Disturbances, induced by Radio-Frequency Fields IEC 61000-4-6:2013	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage Dips, Short Interruption and Voltage Variations Immunity Tests IEC 61000-4-11:2017	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission Test CISPR 32:2015	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission Test CISPR 32:2015	TEC/SD/DD/EMC-221/05/OCT-16


AD (CA), TEC

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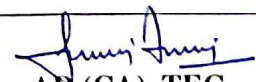
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	EMI/EMC Testing of Telecom Equipment	Radiated Emission Test CISPR 11:2016	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission Test CISPR 11:2016	TEC/SD/DD/EMC-221/05/OCT-16
2.	Environmental Testing of Telecom Equipment	Cold Storage Test	QM-333, Issue March 2010
		Dry Heat Test	QM-333, Issue March 2010
		Damp Heat Steady State	QM-333, Issue March 2010
		Damp Heat Cyclic Test	QM-333, Issue March 2010
		Vibration Test	QM-333, Issue March 2010
3.	Information Technology Equipment- Safety Requirements	Power Interface Clause- 1.6	IEC 60950-1:2005 +A1:2009 + A2:2013
		Verification of Marking Clause- 1.7	IEC 60950-1:2005 +A1:2009 + A2:2013
		Access to Energized Parts Clause- 2.1.1.1	IEC 60950-1:2005 +A1:2009 + A2:2013
		Access to Hazardous Voltage Wiring Clause- 2.1.1.4	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 Requirements	Energy Hazards Clause- 2.1.1.5	IEC 60950-1:2005 +A1:2009 + A2:2013
		Discharge of Capacitors in Equipment's Clause- 2.1.1.7	IEC 60950-1:2005 +A1:2009 + A2:2013
		Energy Hazards-d. c. mains Supplies Clause- 2.1.1.8	IEC 60950-1:2005 +A1:2009 + A2:2013
		SELV Circuits Clause- 2.2	IEC 60950-1:2005 +A1:2009 + A2:2013
		Limited Power Sources 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
		Short Circuit Backup Protection Clause- 2.7.3	IEC 60950-1:2005 +A1:2009 + A2:2013
		Number and Location of Protective Devices Clause- 2.7.4	IEC 60950-1:2005 +A1:2009 + A2:2013
		Safety Interlocks Clause- 2.8	IEC 60950-1:2005 +A1:2009 + A2:2013
		Solid Insulation Clause- 2.10.5	IEC 60950-1:2005 +A1:2009 + A2:2013


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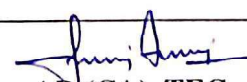
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment- Safety Requirements	Construction of Printed Boards Clause- 2.10.6	IEC 60950-1:2005 +A1:2009 + A2:2013
		Test for Pollution Degree 1 and Environment and for Insulating Compound Clause- 2.10.10	IEC 60950-1:2005 +A1:2009 + A2:2013
		Appliance Inlets Clause- 3.2.4	IEC 60950-1:2005 +A1:2009 + A2:2013
		Cord Anchorage & Strain Relief Clause- 3.2.6	IEC 60950-1:2005 +A1:2009 + A2:2013
		Mechanical Strength Clause- 4.2.2, 4.2.3, 4.2.4, 4.2.5, 4.2.6	IEC 60950-1:2005 +A1:2009 + A2:2013
		Temperature Tests Clause- 4.5.2, 4.5.3, 4.5.5	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
		Electric Strength Clause- 5.2	IEC 60950-1:2005 +A1:2009 + A2:2013


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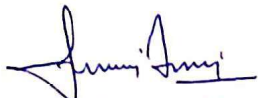
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment- Safety Requirements	Abnormal Operating and Fault Conditions Clause- 5.3	IEC 60950-1:2005 +A1:2009 + A2:2013
		Protection of Equipment Users from Over Voltages on Telecommunication Networks Clause- 6.2	IEC 60950-1:2005 +A1:2009 + A2:2013
		Separation of the Telecommunication Network from Earth Clause- 6.1.2	IEC 60950-1:2005 +A1:2009 + A2:2013


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