



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-110001**

## **CERTIFICATE OF DESIGNATION**

**M/s Institute for Design of Electrical Measuring Instruments, Mumbai**  
has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**Eastern Express Highway, Chunabhatti, Sion, Mumbai-400022, Maharashtra**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/41**

**Issue Date: 07/03/2022**

**Valid Until: 06/03/2025**

**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](http://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/41 dated 07/03/2022 issued to

M/s Institute for Design of Electrical Measuring Instruments,

Eastern Express Highway, Chunabhatti, Sion, Mumbai-400022, Maharashtra.

Validity: -07/03/2022 to 06/03/2025

### Terms & Conditions

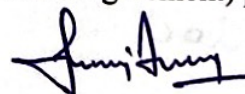
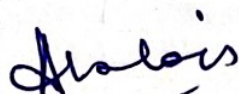
This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

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.

*Abul*

*[Signature]*



**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name:** M/s Institute for Design of Electrical Measuring Instruments  
Eastern Express Highway, Chunabhatti,  
Sion, Mumbai-400 022, Maharashtra, India

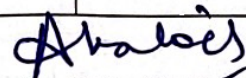
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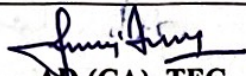
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**Validity:** 07/03/2022 to 06/03/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	<b>Information Technology Equipment- Safety Requirement</b>	Double or Reinforced Insulation Bridged by Components Clause- 1.5.7.3, 2.4.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Power Input Test Clause- 1.6.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Durability of Marking Test Clause- 1.7.13, 1.7.11	IEC 60950-1:2005 + A1:2009 + A2:2013
		Access to Energized Parts test Clause- 2.1.1.1, 2.8.2, 2.8.3	IEC 60950-1:2005 + A1:2009 + A2:2013
		Energy Hazard Measurements Clause- 2.1.1.5, 2.1.2, 1.2.8.9	IEC 60950-1:2005 + A1:2009 + A2:2013
		Capacitance Discharge Test Clause- 2.1.1.7	IEC 60950-1:2005 + A1:2009 + A2:2013
		SELV reliability test Clause- 2.2.2, 2.2.3, 2.2.4	IEC 60950-1:2005 + A1:2009 + A2:2013
		TNV Circuits Clause- 2.3	IEC 60950-1:2005 + A1:2009 + A2:2013
		Limited Current Circuit Measurements Clause- 2.4.1, 2.4.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Limited Power Source Measurements Clause- 2.5	IEC 60950-1:2005 + A1:2009 + A2:2013
		Earthing Test Clause- 2.6.3.4, 2.6.1	IEC 60950-1:2005 + A1:2009 + A2:2013

  
Director (CA), TEC

  
AD (CA), TEC

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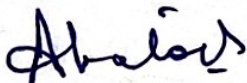
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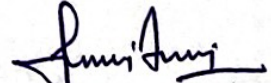
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Information Technology Equipment- Safety Requirement</b>	Humidity Test Clause- 2.9.1, 2.9.2, 5.2.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Switches & Relays Clause- 2.8.7	IEC 60950-1:2005 + A1:2009 + A2:2013
		Determination of working voltage/ Clearance & Creepage Measurement Clause- 2.10.2, 2.10.3, 2.10.4	IEC 60950-1:2005 + A1:2009 + A2:2013
		Clearance Clause- 2.10.3	IEC 60950-1:2005 + A1:2009 + A2:2013
		Transformer/Insulation Electric Strength Test Clause- 2.10.5.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Components External Termination, Test on Coated Printed Boards & Coated Components Clause- 2.10.7, 2.10.8	IEC 60950-1:2005 + A1:2009 + A2:2013
		Strain Relief Test Clause- 3.2.6, 4.2.1, 4.2.7	IEC 60950-1:2005 + A1:2009 + A2:2013
		Cord Guard Test Clause- 3.2.8	IEC 60950-1:2005 + A1:2009 + A2:2013
		Field Wiring Test (Stranded wire) Clause- 3.3.8, 3.2.9	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
		Steady Force Test Clause- 4.2.1, 4.2.4	IEC 60950-1:2005 + A1:2009 + A2:2013
		Impact Test Clause- 4.2.5	IEC 60950-1:2005 + A1:2009 + A2:2013
		Drop Test Clause 4.2.6, 4.2.1	IEC 60950-1:2005 + A1:2009 + A2:2013
		Stress Relief Test Clause- 4.2.7, 4.2.1	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
		Sharp Edge Test Clause- 4.3.1	IEC 60950-1:2005 + A1:2009 + A2:2013
		Knobs/ Handles Pull loading test Clause- 4.3.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Connections by Plugs and Sockets Clause- 4.3.5	IEC 60950-1:2005 + A1:2009 + A2:2013
		Spillage Test Clause- 4.3.10, 5.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Protection against Hazardous Moving Parts Test Clause- 4.4	IEC 60950-1:2005 + A1:2009 + A2:2013

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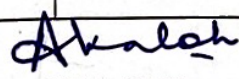
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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Information Technology Equipment- Safety Requirement</b>	Heating Test (Thermal Requirement) Clause- 4.5, 4.5.1, 1.4.12, 1.4.13	IEC 60950-1:2005 + A1:2009 + A2:2013
		Openings in Enclosure Clause- 4.6	IEC 60950-1:2005 + A1:2009 + A2:2013
		Touch Current Test Clause- 5.1	IEC 60950-1:2005 + A1:2009 + A2:2013
		Electric Strength Test Clause- 5.2, 6.2.2	IEC 60950-1:2005 + A1:2009 + A2:2013
		Component Failure Test Clause- 5.3.1, 5.3.4, 5.3.6	IEC 60950-1:2005 + A1:2009 + A2:2013
		Abnormal Operation Tests & Single Fault Conditions Clause- 5.3.1, 5.3.8	IEC 60950-1:2005 + A1:2009 + A2:2013
		Transformer abnormal operation test Clause- 5.3.3	IEC 60950-1:2005 + A1:2009 + A2:2013
		Transformer abnormal Overload operation test Annexure- C.1	IEC 60950-1:2005 + A1:2009 + A2:2013
		Protection of Equipment Users from Over Voltages on telecom network Clause-6.2	IEC 60950-1:2005 + A1:2009 + A2:2013

  
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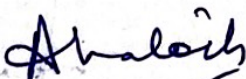
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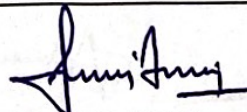
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
2.	<b>EMI/ EMC Testing of Telecommunication equipment</b>	Electrostatic Discharge (ESD) Test IEC 61000-4-2	TEC/SD/DD/EMC-221/05/OCT-16
		Electrical Fast Transient (EFT) Test IEC 61000-4-4	TEC/SD/DD/EMC-221/05/OCT-16
		RF Conducted Immunity Test IEC 61000-4-6	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage Dips and Short Interruptions Test IEC 61000-4-11	TEC/SD/DD/EMC-221/05/OCT-16
		DC Voltage Dips, Short Interruption and Voltage Variation Test IEC 61000-4-29:2000 (As part of the requirement stated in TEC's Essential Requirements, where applicable)	TEC/SD/DD/EMC-221/05/OCT-16
3.	<b>Safety Requirements for electrical equipment for measurement, control and laboratory use</b>	Power Input Clause- 5.1.3 (c)	IEC 61010-1
		Testing in Single Fault Condition Clause- 4.4	IEC 61010-1
		Marking and Documentation Clause- 5	IEC 61010-1
		Protection against Electric Shock Clause- 6	IEC 61010-1
		Protection against Mechanical Hazard Clause- 7	IEC 61010-1

  
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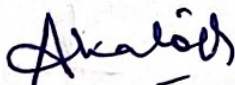
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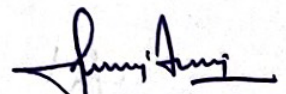
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Safety Requirements for electrical equipment for measurement, control and laboratory use	Resistance to Mechanical Stresses Clause- 8	IEC 61010-1
		Protection against Spread of Fire Clause- 9	IEC 61010-1
		Equipment Temperature Limits and Resistance to Heat Clause-10	IEC 61010-1
		Protection against Hazard from Fluid Clause- 11	IEC 61010-1
		Protection against Radiation including Laser Sources, and against Sonic and Ultrasonic Pressure (Sound Level only) Clause- 12.5.1	IEC 61010-1
		Protection against Liberated gases and Substances, explosion and implosion Clause- 13	IEC 61010-1
		Components and Subassemblies Clause- 14	IEC 61010-1
		Protection by Interlock Clause- 15	IEC 61010-1
		Hazards resulting from application Clause- 16	IEC 61010-1



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