



सत्यमेव जयते



**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

Electronics Test & Development Centre, Bengaluru
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

100 feet Road, Peenya Industrial Area, Bengaluru-560 058

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/13

Issue Date: 22/03/2021

Valid Until: 21/03/2024

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 (MRA)
For Designating Authority
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/13 dated 22/03/2021 issued to
Electronics Test & Development Centre, Bengaluru
100 feet Road, Peenya Industrial Area, Bengaluru-560 058**

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC Scheme for Designating Domestic Conformity Assessment Bodies and Certification Bodies for Conformity Assessment 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 out 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 two 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 of 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: Electronics Test & Development Centre, Bengaluru
100 feet Road, Peenya Industrial Area, Bengaluru-560 058

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Validity: 22/03/2021 to 21/03/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
1.	EMI/EMC Testing for Telecom Equipment	Radiated Emission Test CISPR 22 (2008)	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission Test CISPR 22 (2008)	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission Test CISPR 11 (2005)	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic discharge immunity test IEC 61000-4-2: 2008	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
2.	Information Technology Equipment- Safety Requirement	Input Current Clause- 1.6	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Verification of Marking Clause-1.7.11	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Protection from Hazards Clause-2.1.1	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Discharge of capacitors in equipment Clause-2.1.1.7	IEC 60950-1 : 2005 +A1 :2009 +A2:2013


Director (MRA), TEC


AD (MRA), TEC

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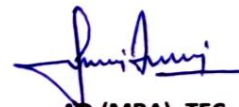
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
	Information Technology Equipment- Safety Requirement	Resistance of earthing conductors Clause- 2.6.3.4	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Creepage/Clearance distance Clause-2.10	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Working Voltage Clause-2.10.2	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Transient Voltage Clause-2.10.3.9	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Creepage Distance Clause-2.10.4	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Thermal Cycling & Ageing Clause-2.10.9	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Stability Clause-4.1	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Steady Force Test (10 N, 30 N, 250 N) Clause-(4.2.2, 4.2.3., 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
		Stress Relief Test Clause-4.2.7	IEC 60950-1 : 2005 +A1 :2009 +A2:2013



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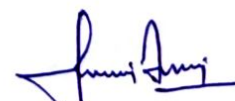
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
	Information Technology Equipment- Safety Requirement	Handle and Manual Control Clause- 4.3.2	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Direct Plug in Equipment Clause-4.3.6	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
		Resistance to abnormal heat Clause-4.5.5	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Opening in enclosure Clause-4.6.4.2	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Adhesives for construction purposes Clause-4.6.5	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Material test Clause-4.7.3	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Materials in high voltage components Clause-4.7.3.6	IEC 60950-1 : 2005 +A1 :2009 +A2:2013



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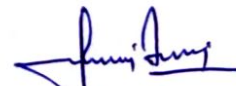
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
	Information Technology Equipment- Safety Requirement	Touch Current Clause-5.1	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Electric Strength test Clause5.2	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Impulse Test Clause-6.2.2.1	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Voltage surge Clause-7.4.2	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
		Impulse test Clause-7.4.3	IEC 60950-1 : 2005 +A1 :2009 +A2:2013
3.	Environmental Testing	Cold (Low Temperature) Test	QM-333 ISSUE MARCH 2010
		Dry Heat (High Temperature) Test	QM-333 ISSUE MARCH 2010
		Change of Temperature (Temperature Cyclic/Shock)	QM-333 ISSUE MARCH 2010
		Damp Heat Steady State Test	QM-333 ISSUE MARCH 2010
		Damp Heat Cyclic Test	QM-333 ISSUE MARCH 2010



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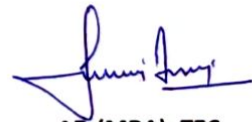
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
	Environmental Testing	Salt Spray (Corrosion) Test	QM-333 ISSUE MARCH 2010
		Dust (limited to size 1m x 1m x 1m) Test	QM-333 ISSUE MARCH 2010
		Vibration (up to 25 Kgs including fixture) Test	QM-333 ISSUE MARCH 2010
		Bump Test	QM-333 ISSUE MARCH 2010
		Drop Test	QM-333 ISSUE MARCH 2010
		Topple Test	QM-333 ISSUE MARCH 2010



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