



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

**Tarang Labs, Wipro Limited, Bangalore**  
has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**Survey No. 70, 77, 78/8A, Doddakkanelli, Sarjapur Road, Bangalore-560 035**

**In the field of Testing**

Certificate No. TEC/MRA/CAB/IND-D/7-II

Issue Date: 18/11/2022

Valid Until: 17/11/2025

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

**Nitin Jain**  
Deputy Director General (CA)  
For Designating Authority  
TEC

Certificate No: TEC/MRA/CAB/IND-D/7-II dated 18/11/2022 issued to  
Tarang Labs, Wipro Limited, Bangalore  
Survey No. 70, 77, 78/8A, Doddakkanelli, Sarjapur Road,  
Bangalore-560 035.



Validity: - 18/11/2022 to 17/11/2025

### 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**

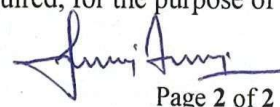
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

#### **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.



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

Laboratory Name: **Tarang Labs, Wipro Limited, Bangalore**  
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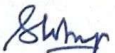
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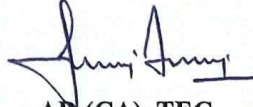
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Validity: 18/11/2022 to 17/11/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	<b>Information and Communication Technology Equipment Part-1:- Safety Requirements</b>	Leakage Current Clause- 5.1	IEC:60950-1:2005 +A1:2009+A2:2013
		Electric/Dielectric Strength Clause- 5.2	IEC:60950-1:2005 +A1:2009+A2:2013
		Earth Bond Test Clause- 2.6.3.4	IEC:60950-1:2005 +A1:2009+A2:2013
		Input Current/Power Test Clause- 1.6.2	IEC:60950-1:2005 +A1:2009+A2:2013
		Heating/Temperature Clause- 4.5	IEC:60950-1:2005 +A1:2009+A2:2013
		Ball Pressure Test Clause- 4.5.5	IEC:60950-1:2005 +A1:2009+A2:2013
		Steady Force Test Clause- 4.2.2 to 4.2.4	IEC:60950-1:2005 +A1:2009+A2:2013
		Drop Test Clause- 4.2.6	IEC:60950-1:2005 +A1:2009+A2:2013

  
Director (CA), TEC

  
AD (CA), TEC

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Information and Communication Technology Equipment Part-1:- Safety Requirements</b>	Inclined Plane Test Clause- 4.1	IEC:60950-1:2005 +A1:2009+A2:2013
		Abnormal Operation/Fault Condition Test Clause- 5.3	IEC:60950-1:2005 +A1:2009+A2:2013
		Accessibility Test Clause- 2.1	IEC:60950-1:2005 +A1:2009+A2:2013
		Creepage and Clearance Clause- 2.10	IEC:60950-1:2005 +A1:2009+A2:2013
		Steel Ball Impact Test Clause- 4.2.5	IEC:60950-1:2005 +A1:2009+A2:2013
		Capacitor Discharge Test Clause- 2.1.1.7	IEC:60950-1:2005 +A1:2009+A2:2013
		Stability Clause- 4.1	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
	<b>Information and Communication Technology Equipment Part-1:- Safety Requirements</b>	Sharp Edges and Corners Clause- 4.3.1	IEC:60950-1:2005 +A1:2009+A2:2013
		Push Pull Force Test Clause- 2.1, 4.1 & 4.2	IEC:60950-1:2005 +A1:2009+A2:2013
		Durability & Marking Test Clause- 1.7.11	IEC:60950-1:2005 +A1:2009+A2:2013
		Stress Relief Test/ Resistance to Heat Test Clause- 4.2.7	IEC:60950-1:2005 +A1:2009+A2:2013
		Cord Anchorages and Strain Relief Test Clause- 3.2.6	IEC:60950-1:2005 +A1:2009+A2:2013
2.	<b>EMI/EMC Testing for Telecom Equipment</b>	Conducted Emission Test CISPR 11 (Edition 6.1) 2015+AMD1:2016-06	TEC/SD/DD/EMC- 221/05/OCT-16
		Conducted Emission Test CISPR 22 (Edition 6.0) (2008-09)	TEC/SD/DD/EMC- 221/05/OCT-16

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	EMI/EMC Testing for Telecom Equipment	Radiated Emission Test CISPR 11 (Edition 6.0) 2015+AMD1:2016, CISPR 11 (Edition 6.1) 2015+AMD1:2016-06 CSV	TEC/SD/DD/EMC- 221/05/OCT-16
		Radiated Emission Test CISPR 22 (Edition 6.0) (2008-09)	TEC/SD/DD/EMC- 221/05/OCT-16
		Electrostatic Discharge Immunity Test IEC 61000-4-2 (Edition 2.0) (2008-12)	TEC/SD/DD/EMC- 221/05/OCT-16
		Radiated RF Electromagnetic Field Immunity Test IEC 61000-4-3 (Edition 3.2) Console with AMD 1 & 2 (2010-04)	TEC/SD/DD/EMC- 221/05/OCT-16
		Electrical Fast Transients (EFT) Test IEC 61000-4-4 (Edition 3.0) (2012-04)	TEC/SD/DD/EMC- 221/05/OCT-16
		Surge Immunity Test IEC 61000-4-5 (Edition 3.0) (2014-05)	TEC/SD/DD/EMC- 221/05/OCT-16

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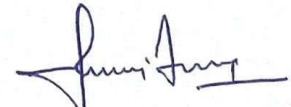
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	EMI/EMC Testing for Telecom Equipment	RF Conducted Immunity Test IEC 61000-4-6 (Edition 4.0) (2013-10)	TEC/SD/DD/EMC-221/05/OCT-16
		Supply Voltage Dips & Interruptions Immunity Test IEC 61000-4-11 (Edition 2.0) (2004-03)	TEC/SD/DD/EMC-221/05/OCT-16



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