



**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 TARANG LABS, WIPRO LIMITED (RF TR Lab), BANGALORE
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

**SY. NO. 69P, 71/4P, 78/8AP, 134P, 76P, 77P, 80P, 70P, 79/1P, UNIT 1, SARJAPUR
ROAD, DODDAKANNELLI VILLAGE, VARTHUR HOBLI, BANGALORE,
KARNATAKA- 560 035**

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/99

Issue Date: 16/08/2024

Validity: 16/08/2024 to 15/08/2027

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

**Signed by Sanjeev Kumar
Arya
Date: 16/08/2024
Director (CA)
For Designating Authority
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/99 dated 16/08/2024 issued to
M/s TARANG LABS, WIPRO LIMITED (RF TR Lab),
SY. NO. 69P, 71/4P, 78/8AP, 134P, 76P, 77P, 80P, 70P, 79/1P,
Unit- 1, Sarjapur Road, Doddakannelli Village, Varthur Hobli
Bangalore -560 035**



Validity: -16/08/2024 to 15/08/2027

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 3 NO. TEC 04019:2023.

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 recognized 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 Organizational 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.

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 - c. It is guilty of any offence involving fraud or dishonesty.
 - d. DA concludes that there is a just cause for withdrawing the designation.
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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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Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001



SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name: M/s TARANG LABS, WIPRO LIMITED (RF TR Lab),
SY. NO. 69P, 71/4P, 78/8AP, 134P, 76P, 77P, 80P, 70P, 79/1P,
Unit- 1, Sarjapur Road, Doddakannelli Village, Varthur Hobli
Bangalore -560 035**

Certificate Number: TEC/MRA/CAB/IND-D/99

Page 1 of 5

Validity:16/08/2024 to 15/08/2027

Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing	Standard/ Specification	
1	Base Station for Cellular Network	Base Station with MSR Transmitter Parameters	Base Station Output Power Clause- 6.2 3GPP TS 37.141	TEC ER No. TEC42722304
			Transmitter Spurious Emissions Clause- 6.6.1 3GPP TS 37.141	TEC ER No. TEC42722304
			Operating Band Unwanted Emissions Clause- 6.6.2 3GPP TS 37.141	TEC ER No. TEC42722304
			Adjacent Channel Leakage Power Ratio (ACLR) Clause- 6.6. 3GPP TS 37.141	TEC ER No. TEC42722304
			Transmitter Intermodulation Clause- 6.7 3GPP TS 37.141	TEC ER No. TEC42722304
		Base Station with MSR Receiver Parameters	Receiver Spurious Emissions Clause- 7.6 3GPP TS 37.141	TEC ER No. TEC42722304
			In-band Selectivity and Blocking or In Band Blocking and Narrow Band Blocking Clause- 7.4 3GPP TS 37.141	TEC ER No. TEC42722304
			Out-of-Band Blocking Clause- 7.5 3GPP TS 37.141	TEC ER No. TEC42722304

***The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.**

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(ANNEXURE)

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Page 2 of 5

Validity:16/08/2024 to 15/08/2027

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Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing	Standard/ Specification
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	Base Station for Cellular Network	Base Station with MSR Receiver Parameters	Receiver Intermodulation Clause- 7.7 3GPP TS 37.141	TEC ER No. TEC42722304
			Reference Sensitivity Level Clause- 7.2 3GPP TS 37.141	TEC ER No. TEC42722304
		Base Station with AAS Transmitter Parameters	Base Station Output Power Clause- 6.2 3GPP TS 37.145-1	TEC ER No. TEC42722304
			Spurious Emissions Clause- 6.6.6 3GPP TS 37.145-1	TEC ER No. TEC42722304
			Operating Band Unwanted Emissions Clause- 6.6.5 3GPP TS 37.145-1	TEC ER No. TEC42722304
			Adjacent Channel Leakage Power Ratio (ACLR) Clause- 6.6.3 3GPP TS 37.145-1	TEC ER No. TEC42722304
			Spectrum Emission Mask Clause- 6.6.4 3GPP TS 37.145-1	TEC ER No. TEC42722304
		Transmitter Intermodulation Clause- 6.7 3GPP TS 37.145-1	TEC ER No. TEC42722304	
		Base Station with AAS Receiver Parameters	Reference Sensitivity Level Clause- 7.2 3GPP TS 37.145-1	TEC ER No. TEC42722304

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Page 3 of 5

Validity:16/08/2024 to 15/08/2027

Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing	Standard/ Specification
	Base Station for Cellular Network	Base Station with AAS Receiver Parameters	Adjacent Channel Selectivity and Narrow Band Blocking or In Band Blocking and Narrow Band Blocking Clause- 7.4 3GPP TS 37.145-1 TEC ER No. TEC42722304
			Blocking or Out-of-Band Blocking Clause- 7.5 3GPP TS 37.145-1 TEC ER No. TEC42722304
			Receiver Spurious Emissions Clause- 7.6 3GPP TS 37.145-1 TEC ER No. TEC42722304
			Receiver Intermodulation Clause- 7.7 3GPP TS 37.145-1 TEC ER No. TEC42722304
2.	Base Station for Cellular Network for 5G	BTS with Multi Standard Radio Transmitter Parameters	Base Station Output Power Clause- 6.2 3GPP TS 37.141 TEC ER No. TEC42732304
			Transmitter Spurious Emissions Clause- 6.6.1 3GPP TS 37.141 TEC ER No. TEC42732304
			Operating Band Unwanted Emissions Clause- 6.6.2 3GPP TS 37.141 TEC ER No. TEC42732304
			Adjacent Channel Leakage Power Ratio (ACLR) Clause- 6.6. 3GPP TS 37.141 TEC ER No. TEC42732304

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Page 4 of 5

Validity:16/08/2024 to 15/08/2027

Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing	Standard/ Specification
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	Base Station for Cellular Network for 5G	BTS with Multi Standard Radio Transmitter Parameters	Transmitter Intermodulation Clause- 6.7 3GPP TS 37.141	TEC ER No. TEC42732304
		BTS with Multi Standard Radio Receiver Parameters	Receiver Spurious Emissions Clause- 7.6 3GPP TS 37.141	TEC ER No. TEC42732304
			In-band Selectivity and Blocking or In Band Blocking and Narrow Band Blocking Clause- 7.4 3GPP TS 37.141	TEC ER No. TEC42732304
			Out-of-Band Blocking Clause- 7.5 3GPP TS 37.141	TEC ER No. TEC42732304
			Receiver Intermodulation Clause- 7.7 3GPP TS 37.141	TEC ER No. TEC42732304
			Reference Sensitivity Level Clause- 7.2 3GPP TS 37.141	TEC ER No. TEC42732304
		Base Station with Hybrid Active Antenna System Transmitter Parameters	Base Station Output Power Clause- 6.2 3GPP TS 37.145-1	TEC ER No. TEC42732304

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Unit- 1, Sarjapur Road, Doddakannelli Village, Varthur Hobli
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Certificate Number: TEC/MRA/CAB/IND-D/99

Page 5 of 5

Validity:16/08/2024 to 15/08/2027

Last Amended on: ----

Sl. No.	Telecom Equipment /Product	Test Parameter or Type of Testing	Standard/ Specification	
	Base Station for Cellular Network for 5G	Base Station with Hybrid Active Antenna System	Spurious Emissions Clause- 6.6.6 3GPP TS 37.145-1	TEC ER No. TEC42732304
		Transmitter Parameters	Operating Band Unwanted Emissions Clause- 6.6.5 3GPP TS 37.145-1	TEC ER No. TEC42732304
			Adjacent Channel Leakage Power Ratio (ACLR) Clause- 6.6.3 3GPP TS 37.145-1	TEC ER No. TEC42732304
			Transmitter Intermodulation Clause- 6.7 3GPP TS 37.145-1	TEC ER No. TEC42732304
	Base Station with Hybrid Active Antenna System	Receiver Parameters	Reference Sensitivity Level Clause- 7.2 3GPP TS 37.145-1	TEC ER No. TEC42732304
			Adjacent Channel Selectivity and Narrow Band Blocking or In Band Blocking and Narrow Band Blocking Clause- 7.4 3GPP TS 37.145-1	TEC ER No. TEC42732304
			Receiver Intermodulation Clause- 7.7 3GPP TS 37.145-1	TEC ER No. TEC42732304

Signed by Sanjay Bhardwaj

Date: 16-08-2024 12:03:28

AD (CA), TEC

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Government of India
Department of Telecommunications
Telecommunication Engineering Centre
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001

स. 1-121/2026-सी.ए./टी.ई.सी.

Dated: - 14.05.2026

To,

Ms. Lavanya K., Lead QA & RA
M/s Tarang Labs, Wipro Limited (RF TR Lab), Bangalore
Sy. No. 69p, 71/4p, 78/8ap, 134p, 76p, 77p, 80p, 70p, 79/1p,
Unit 1, Sarjapur Road, Doddakannelli Village, Vatthur Hobli,
Bangalore, Karnataka-560035
Mob: +91 8884200793
E-mail: lavanya.k521@wipro.com

Subject: Application for enhancement of CAB Designation- M/s Tarang Labs, Wipro Limited (RF TR Lab), Bangalore- regarding.

Ref.:- (i) CAB Designation Certificate No. TEC/MRA/CAB/IND-D/99 dated 16.08.2024, valid up to 15.08.2027.

(ii) NSWS Portal Application ID **SW9990892944-M008_D001_A194-1756379726321** dated 28.08.2025 and re-applied on dated 17.10.2025.

This is in reference to your application for enhancement of Scope of CAB Designation of Certificate No. TEC/MRA/CAB/IND-D/99 dated 16.08.2024, valid up to 15.08.2027, submitted vide Application ID **SW9990892944-M008_D001_A194-1756379726321** dated 28.08.2025 and re-applied on dated 17.10.2025 in online mode on NSWS CAB Designation Portal.

2. In reference to the recommendations of Site visit assessment report, the scope of designation of CAB Certificate no. referred under ref. (i) above is hereby enhanced in respect of test parameters of Base Station for Cellular Network as per detail mentioned in Annexure attached below.

3. Further, it is intimated that your request made before the Site Visit Team during the site visit of your facility for inclusion of the below-mentioned additional test parameters for testing, stating that these parameters are proposed to be covered under your upcoming NABL scope expansion and that the updated NABL scope shall be submitted to TEC upon receipt of the same, has been considered.

Sl. No.	Product/ Test Parameters	Test Parameters with Standard	Standard
1.	Base Station for Cellular Network	Base Station 5G NR Type 1-C (Transmitter Parameters)	Base station operating Frequency Clause- Annex-F
			TEC ER No. TEC42722504

2.	Base Station 5G NR Type 1-H (Transmitter Parameters)	Base station operating Frequency Clause- Annex-F	TEC ER No. TEC4272250
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In this regard, the CAB shall submit the updated NABL Accreditation Certificate incorporating the below-mentioned test parameters within a period of three months from the date of issue of this letter, upon receipt of which TEC may issue an addendum for inclusion of the said test parameters in the scope of designation.

4. All other details, terms and conditions and validity of CAB Designation Certificate no. TEC/MRA/CAB/IND-D/99 dated 16.08.2024 shall remain unchanged.

5. This is issued with the approval of Competent Authority.

Encl: as above

Digitally signed by
Buddha Priya Rahul
Date: 14-05-2026
17:06:20

AD (CA-II)

Copy to:

1. DDG (MT), TEC, New Delhi for kind information and necessary action please.
2. DDG (NR)/DDG(ER)/DDG (WR)/DDG (SR) TEC for kind information please.



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(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

**Digitally signed by
Sanjeev Kumar Arya
Date: 14-05-2026
16:41:10**

**Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/99 dated 14/05/2026 issued to
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(ANNEXURE)

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Page 1 of 3

Validity: 14/05/2026 to 15/08/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
1.	Base Station for Cellular Network	Base Station 5G NR Type 1-C (Transmitter Parameters)	Adjacent Channel Leakage power Ratio Clause- 6.6.3.5.3 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Base station output power Clause- 6.2 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Operating band unwanted emission Clause- 6.6.4.5.7 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Transmitter spurious emissions Clause 6.6.5.5.3 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Transmitter intermodulation Clause- 6.7.5.1 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Base Station 5G NR Type 1-C (Receiver Parameters)	Reference sensitivity level Clause 7.2 3GPP TS 38.141-1
		Adjacent Channel Selectivity Clause- 7.4.1 3GPP TS 38.141-1		TEC ER No. TEC42722504
		In-band blocking Clause 7.4.2 3GPP TS 38.141-1		TEC ER No. TEC42722504

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
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			Receiver spurious emissions Clause- 7.6.5.2 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Receiver intermodulation Clause- 7.7 3GPP TS 38.141-1	TEC ER No. TEC42722504
		Base Station 5G NR Type 1-H (Transmitter Parameters)	Base station output power Clause- 6.2 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Adjacent Channel Leakage power Ratio Clause- 6.6.3.5.4 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Operating band unwanted emission 3GPP TS 38.141-1 Clause 6.6.4.5.8	TEC ER No. TEC42722504
			Transmitter spurious emissions Clause 6.6.5.5.4 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Transmitter intermodulation 3GPP TS 38.141-1 Clause 6.7.5.2	TEC ER No. TEC42722504

***The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.**

**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE**
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Tarang Lab, Wipro Limited (RF TR Lab), Bangalore
Sy. No. 69p, 71/4p, 78/8ap, 134p, 76p, 77p, 80p, 70p, 79/1p, Unit 1,
Sarjapur Road, Doddakannelli Village, Vatthur Hobli, Bangalore,
Karnataka-560035

Certificate Number: TEC/MRA/CAB/IND-D/99

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Validity: 14/05/2026 to 15/08/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Base Station for Cellular Network	Base Station 5G NR Type 1-H (Receiver Parameters)	Reference sensitivity level Clause 7.2 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Adjacent Channel Selectivity Clause 7.4.1 3GPP TS 38.141-1	TEC ER No. TEC42722504
			In-band blocking Clause 7.4.2 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Out-of -Band blocking Clause 7.5 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Receiver spurious emissions Clause 7.6.5.3 3GPP TS 38.141-1	TEC ER No. TEC42722504
			Receiver intermodulation Clause 7.7 3GPP TS 38.141-1	TEC ER No. TEC42722504

Digitally signed by
Buddha Priya Rahul
Date: 14-05-2026
17:01:14

AD (CA-II), TEC

***The validity of Certificate is up to 15/08/2027 or the continued validity of NABL Accreditation, whichever is earlier.**