



**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 AA Electro Magnetic Test Laboratory Private Limited, Gurugram**

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

**Plot No. 174, Duo Vihar, Phase-4, Sector-18, Gurugram-122016**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/63-III**

**Issue Date: 26/04/2023**

**Validity: 26/04/2023 to 25/04/2026**

**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](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

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

Certificate No: TEC/MRA/CAB/IND-D/63-III dated 26/04/2023 issued to  
M/s AA Electro Magnetic Test Laboratory Private Limited,  
Gurugram Plot No. 174, Udyog Vihar, Phase-4, Sector-18,  
Gurugram-122016



Validity: - 26/04/2023 to 25/04/2026

### 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.

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**

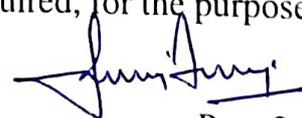
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

## **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 AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

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**Validity:** 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
1.	Mobile Radio Trunking System	Parameters link with Product Variant	Transient behaviour of the transmitter ETSI EN 300 113 Cl. 7.9	TEC ER No. TEC56782301
		Frequency error ETSI EN 300 113 Cl. 7.1	TEC ER No. TEC56782301	
		Transmitter power (conducted) ETSI EN 300 113 Cl. 7.2	TEC ER No. TEC56782301	
		Unwanted emissions in the spurious domain ETSI EN 300 113 Cl. 7.5	TEC ER No. TEC56782301	

  
AD (CA), TEC

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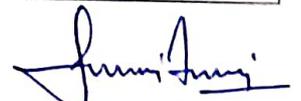
Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Mobile Radio Trunking System	Adjacent and alternate channel power ETSI EN 300 113 Cl. 7.4	TEC ER No. TEC56782301
		Arrangements for test signals applied to the receiver input ETSI EN 300 113 Cl. 6.1	TEC ER No. TEC56782301
		Artificial Antenna ETSI EN 300 113 Cl. 6.7	TEC ER No. TEC56782301
		Encoder for receiver measurements ETSI EN 300 113 Cl. 6.4	TEC ER No. TEC56782301

  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile Radio Trunking System	Facilities for access ETSI EN 300 113 Cl. 6.9	TEC ER No. TEC56782301
		Impedance ETSI EN 300 113 Cl. 6.6	TEC ER No. TEC56782301
		Inter modulation attenuation ETSI EN 300 113 Cl. 7.6	TEC ER No. TEC56782301
		Maximum Effective radiated power ETSI EN 300 113 Cl. 7.3	TEC ER No. TEC56782301

  
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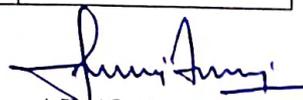
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**Validity:** 26/04/2023 to 25/04/2026

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Mobile Radio Trunking System</b>	Modes of operation of the transmitter for constant envelope equipment ETSI EN 300 113 Cl. 6.11	TEC ER No. TEC56782301
		Normal test signals (wanted and unwanted signals) ETSI EN 300 113 Cl. 6.3	TEC ER No. TEC56782301
		Receiver mute or squelch facility ETSI EN 300 113 Cl. 6.2	TEC ER No. TEC56782301
		Technical characteristics of the transmitter ETSI EN 300 113 Cl. 7	TEC ER No. TEC56782301

  
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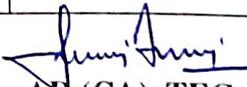
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile Radio Trunking System</b>	Test site and general arrangements for measurements involving the use of radiated field ETSI EN 300 113 Cl. 6.10	TEC ER No. TEC56782301
		Test of equipment with a duplex filter ETSI EN 300 113 Cl. 6.8	TEC ER No. TEC56782301
		Transceiver data interface ETSI EN 300 113 Cl. 6.5	TEC ER No. TEC56782301
		Transmitter attack time ETSI EN 300 113 Cl. 7.7	TEC ER No. TEC56782301

  
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Validity: 26/04/2023 to 25/04/2026

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile Radio Trunking System		Transmitter release time ETSI EN 300 113 Cl. 7.8 TEC ER No. TEC56782301
2.	VHF UHF Radio System Equipment	Parameters link with Product Variant	Adjacent and alternate channel power ETSI EN 300 113 Cl. 7.4 TEC ER No. TEC58432301
			Frequency error ETSI EN 300 113 Cl. 7.1 TEC ER No. TEC58432301
			Transmitter power (conducted) ETSI EN 300 113 Cl. 7.2 TEC ER No. TEC58432301

  
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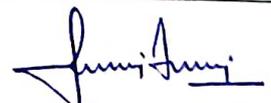
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Validity: 26/04/2023 to 25/04/2026

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	VHF UHF Radio System Equipment	Unwanted emissions in the spurious domain ETSI EN 300 113 Cl. 7.5	TEC ER No. TEC58432301
		Transient behaviour of the transmitter ETSI EN 300 113 Cl. 7.9	TEC ER No. TEC58432301
		Arrangements for test signals applied to the receiver input ETSI EN 300 113 Cl. 6.1	TEC ER No. TEC58432301
		Artificial antenna ETSI EN 300 113 Cl. 6.7	TEC ER No. TEC58432301

  
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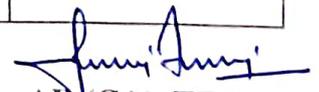
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	VHF UHF Radio System Equipment	Encoder for receiver measurements ETSI EN 300 113 Cl. 6.4	TEC ER No. TEC58432301
		Facilities for access ETSI EN 300 113 Cl. 6.9	TEC ER No. TEC58432301
		Impedance ETSI EN 300 113 Cl. 6.6	TEC ER No. TEC58432301
		Inter modulation attenuation ETSI EN 300 113 Cl. 7.6	TEC ER No. TEC58432301
		Maximum Effective radiated power ETSI EN 300 113 Cl. 7.3	TEC ER No. TEC58432301

  
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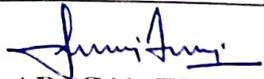
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**Validity:** 26/04/2023 to 25/04/2026

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>VHF UHF Radio System Equipment</b>	Modes of operation of the transmitter for constant envelope equipment ETSI EN 300 113 Cl. 6.11	TEC ER No. TEC58432301
		Normal test signals (wanted and unwanted signals) ETSI EN 300 113 Cl. 6.3	TEC ER No. TEC58432301
		Receiver mute or squelch facility ETSI EN 300 113 Cl. 6.2	TEC ER No. TEC58432301
		Technical characteristics of the transmitter ETSI EN 300 113 Cl. 7	TEC ER No. TEC58432301

  
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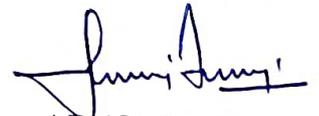
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	VHF UHF Radio System Equipment	Test site and general arrangements for measurements involving the use of radiated field ETSI EN 300 113 Cl. 6.10	TEC ER No. TEC58432301
		Test of equipment with a duplex filter ETSI EN 300 113 Cl. 6.8	TEC ER No. TEC58432301
		Transceiver data interface ETSI EN 300 113 Cl. 6.5	TEC ER No. TEC58432301
		Transmitter attack time ETSI EN 300 113 Cl. 7.7	TEC ER No. TEC58432301

  
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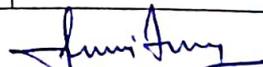
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	VHF UHF Radio System Equipment		Transmitter release time ETSI EN 300 113 Cl. 7.8 TEC ER No. TEC58432301
3.	Base Station for Cellular Network	BTS with AAS (up to 4G only & excluding OTA AAS)	Base Station output power 3GPP TS 37.145-1 Clause 6.2 TEC ER No. TEC42722304
			Spurious emission 3GPP TS 37.145-1 Clause 6.6.6 TEC ER No. TEC42722304
			Operating band unwanted emission 3GPP TS 37.145-1 Clause 6.6.5 TEC ER No. TEC42722304
			Adjacent Channel Leakage Power Ratio 3GPP TS 37.145-1 Clause 6.6.3 TEC ER No. TEC42722304

  
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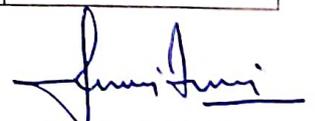
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**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Base Station for Cellular Network</b>	Spectrum emission mask 3GPP TS 37.145-1 Clause 6.6.4	TEC ER No. TEC42722304
		Transmitter intermodulation 3GPP TS 37.145-1 Clause 6.7	TEC ER No. TEC42722304
		Reference sensitivity level 3GPP TS 37.145-1 Clause 7.2	TEC ER No. TEC42722304
		Blocking or out-of-band blocking 3GPP TS 37.145-1 Clause 7.5	TEC ER No. TEC42722304
		Receiver spurious emissions 3GPP TS 37.145-1 Clause 7.6	TEC ER No. TEC42722304

  
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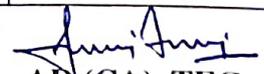
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Validity: 26/04/2023 to 25/04/2026

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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	Receiver intermodulation 3GPP TS 37.145-1 Clause 7.7	TEC ER No. TEC42722304	
		BTS with MSR (up to 4G only)	Base Station output power 3GPP TS 37.141 Clause 6.2	TEC ER No. TEC42722304
			Operating band unwanted emissions 3GPP TS 37.141 Clause 6.6.2	TEC ER No. TEC42722304
			Adjacent Channel Leakage Power Ratio (ACLR) 3GPP TS 37.141 Clause 6.6.4	TEC ER No. TEC42722304
			Transmitter intermodulation 3GPP TS 37.141 Clause 6.7	TEC ER No. TEC42722304

  
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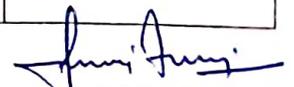
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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	Receiver spurious emissions 3GPP TS 37.141 Clause 7.6	TEC ER No. TEC42722304
		In-band selectivity and blocking or In Band Blocking and Narrow band Blocking 3GPP TS 37.141 Clause 7.4	TEC ER No. TEC42722304
		Out-of-band blocking 3GPP TS 37.141 Clause 7.5	TEC ER No. TEC42722304
		Receiver intermodulation 3GPP TS 37.141 Clause 7.7	TEC ER No. TEC42722304
		Reference sensitivity level 3GPP TS 37.141 Clause 7.2	TEC ER No. TEC42722304

  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	eNodeB for LTE	
		Operating band unwanted emissions 3GPP TS 36.141 Clause 6.6.3	TEC ER No. TEC42722304
		Adjacent Channel Leakage Power Ratio (ACLR) 3GPP TS 36.141 Clause 6.6.2	TEC ER No. TEC42722304
		Transmitter spurious emissions 3GPP TS 36.141 Clause 6.6.4	TEC ER No. TEC42722304
		Base station output power 3GPP TS 36.141 Clause 6.2	TEC ER No. TEC42722304

  
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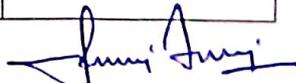
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	Transmitter intermodulation 3GPP TS 36.141 Clause 6.7	TEC ER No. TEC42722304
		Receiver spurious emissions 3GPP TS 36.141 Clause 7.7	TEC ER No. TEC42722304
		Blocking 3GPP TS 36.141 Clause 7.6	TEC ER No. TEC42722304
		Receiver intermodulation 3GPP TS 36.141 Clause 7.8	TEC ER No. TEC42722304
		Adjacent Channel Selectivity (ACS) and narrow-band blocking 3GPP TS 36.141 Clause 7.5	TEC ER No. TEC42722304

  
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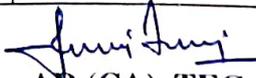
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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	Reference sensitivity level 3GPP TS 36.141 Clause 7.2	TEC ER No. TEC42722304
		Home BS output power for adjacent UTRA channel protection: Applicable to Home Base Station only 3GPP TS 36.141 Clause 6.2.6	TEC ER No. TEC42722304
		Home BS output power for adjacent E-UTRA channel protection: Applicable to Home Base Station only 3GPP TS 36.141 Clause 6.2.7	TEC ER No. TEC42722304

  
AD (CA), TEC

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

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	Home BS output power for co-channel E-UTRA protection: Applicable to Home Base Station only 3GPP TS 36.141 Clause 6.2.8	TEC ER No. TEC42722304
		NodeB for WCDMA	
		Spectrum emission mask 3GPP TS 25.141 Clause 6.5.2.1	TEC ER No. TEC42722304
		Adjacent Channel Leakage Power Ratio (ACLR) 3GPP TS 25.141 Clause 6.5.2.2	TEC ER No. TEC42722304
		Spurious emissions 3GPP TS 25.141 Clause 6.5.3	TEC ER No. TEC42722304

  
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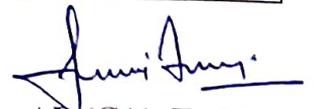
Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	Base station output power 3GPP TS 25.141 Clause 6.2	TEC ER No. TEC42722304
		Transmitter intermodulation 3GPP TS 25.141 Clause 6.6	TEC ER No. TEC42722304
		Spurious Emissions 3GPP TS 25.141 Clause 7.7	TEC ER No. TEC42722304
		Blocking characteristics 3GPP TS 25.141 Clause 7.5	TEC ER No. TEC42722304
		Intermodulation characteristics 3GPP TS 25.141 Clause 7.6	TEC ER No. TEC42722304

  
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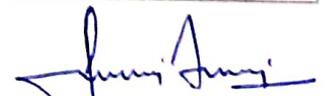
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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Base Station for Cellular Network	Adjacent Channel Selectivity (ACS) 3GPP TS 25.141 Clause 7.4	TEC ER No. TEC42722304
		Reference sensitivity level 3GPP TS 25.141 Clause 7.2	TEC ER No. TEC42722304
		Home base station output power for adjacent channel protection 3GPP TS 25.141 Clause 6.4.6	TEC ER No. TEC42722304
	BTS for GSM	Adjacent channel power 3GPP TS 51.021 Clause 6.5	TEC ER No. TEC42722304

  
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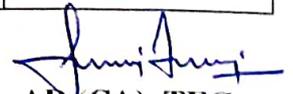
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Base Station for Cellular Network</b>	Wideband noise and intra BSS intermodulation attenuation in multicarrier operation 3GPP TS 51.021 Clause 6.12	TEC ER No. TEC42722304
		Spurious emissions from the transmitter antenna connector 3GPP TS 51.021 Clause 6.6	TEC ER No. TEC42722304
		Intermodulation attenuation 3GPP TS 51.021 Clause 6.7	TEC ER No. TEC42722304
		Intra Base Station System intermodulation attenuation 3GPP TS 51.021 Clause 6.8	TEC ER No. TEC42722304

  
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Base Station for Cellular Network</b>	Radiated spurious emissions 3GPP TS 51.021 Clause 8	TEC ER No. TEC42722304
		Static Reference Sensitivity Level 3GPP TS 51.021 Clause 7.3	TEC ER No. TEC42722304
		Reference interference level 3GPP TS 51.021 Clause 7.5	TEC ER No. TEC42722304
		Blocking Characteristics 3GPP TS 51.021 Clause 7.6	TEC ER No. TEC42722304
		Intermodulation characteristics 3GPP TS 51.021 Clause 7.7	TEC ER No. TEC42722304

  
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Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Base Station for Cellular Network	AM suppression 3GPP TS 51.021 Clause 7.8	TEC ER No. TEC42722304	
		Spurious emissions from the receiver antenna connector 3GPP TS 51.021 Clause 7.9	TEC ER No. TEC42722304	
4.	LAN Switch	Interface: 1 G Optical Ethernet	Average Launch power IEEE 802.3z Cl. 38. Annex-H	TEC ER No. TEC37942304
			Receiver Sensitivity IEEE 802.3z Cl. 38. Annex-H	TEC ER No. TEC37942304
			Wavelength IEEE 802.3z Cl. 38. Annex-H	TEC ER No. TEC37942304
		Interface: 10 G Optical Ethernet	Average Launch power IEEE 802.3ae Cl. 52. Annex-H	TEC ER No. TEC37942304

  
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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
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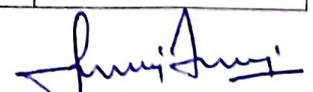
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	LAN Switch	Receiver Sensitivity IEEE 802.3ae Cl. 52. Annex-H	TEC ER No. TEC37942304	
		Wavelength IEEE 802.3ae Cl. 52. Annex-H	TEC ER No. TEC37942304	
		<b>Interface: 100 G Optical Ethernet</b>	Average Launch power IEEE 802.3ba Cl. 86 88. Annex-H	TEC.ER No. TEC37942304
			Receiver Sensitivity IEEE 802.3ba Cl. 86 88. Annex-H	TEC ER No. TEC37942304
			Wavelength IEEE 802.3ba Cl. 86 88. Annex-H	TEC ER No. TEC37942304
		<b>Interface: 40 G Optical Ethernet</b>	Average Launch power IEEE 802.3ba Cl. 86 87. Annex-H	TEC ER No. TEC37942304

  
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**SCOPE OF DESIGNATION**  
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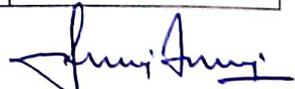
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	LAN Switch	Receiver Sensitivity IEEE 802.3ba Cl. 86 87. Annex-H	TEC ER No. TEC37942304	
		Wavelength IEEE 802.3ba Cl. 86 87. Annex-H	TEC ER No. TEC37942304	
		<b>Interface: Fast Ethernet Optical</b>	Average Launch power IEEE 802.3u. Annex-H	TEC ER No. TEC37942304
			Receiver Sensitivity IEEE 802.3u. Annex-H	TEC ER No. TEC37942304
			Wavelength IEEE 802.3u. Annex-H	TEC ER No. TEC37942304
		<b>Interface: 10 100 1000 BASE-T Ethernet</b>	Link Speed and Autonegotiation Test GE IEEE 802.3. Annex-H	TEC ER No. TEC37942304

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

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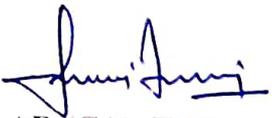
Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	LAN Switch	Interface: 10 100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H TEC ER No. TEC37942304	
		Interface: 2 Mbps Int.	Input Jitter Tolerance for 2 Mbps Int. ITU-T G.823/ ETSI TBR-4	TEC ER No. TEC37942304
			Input Return Loss for 2 Mbps Int. ITU-T G.703/ ETSI TBR-4 Clause 9.3.1	TEC ER No. TEC37942304
			Nominal Bit Rate with Tolerance 2 Mbps Int. ITU-T G.703/ ETSI TBR-4 Clause 9.2.3	TEC ER No. TEC37942304

  
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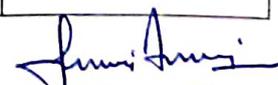
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	LAN Switch		Output Jitter for 2 Mbps Int. ITU-T G.823/ ETSI TBR-4 TEC ER No. TEC37942304
			Pulse Mask for 2 Mbps Int. ITU-T G.703/ ETSI TBR-4 TEC ER No. TEC37942304
5.	PON family of Broadband Equipment	Interface: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation for FE IEEE 802.3 TEC ER No. TEC14762301
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation for GE IEEE 802.3 TEC ER No. TEC14762301
		Interface: EPON	Operating Wavelength receiver for EPON Int IEEE 802.3ah TEC ER No. TEC14762301
			Operating Wavelength Transmitter for EPON Int IEEE 802.3ah TEC ER No. TEC14762301

  
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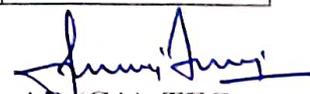
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 28 of 35**

**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>PON family of Broadband Equipment</b>	Opt Output Power for EPON Int at OLT IEEE 802.3ah	TEC ER No. TEC14762301	
		Opt Output Power for EPON Int at ONT IEEE 802.3ah	TEC ER No. TEC14762301	
		Receiver Sensitivity for EPON Int at OLT IEEE 802.3ah	TEC ER No. TEC14762301	
		Receiver Sensitivity for EPON Int at ONT IEEE 802.3ah	TEC ER No. TEC14762301	
		<b>Interface: GPON</b>	Operating Wavelength Receiver for GPON Int ITU-T G.984.2	TEC ER No. TEC14762301
		Operating Wavelength Transmitter for GPON Int ITU-T G.984.2	TEC ER No. TEC14762301	

  
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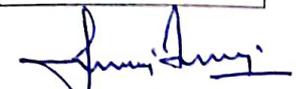
Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON family of Broadband Equipment	Opt Output Power for GPON Int at OLT ITU-T G.984.2	TEC ER No. TEC14762301
		Opt Output Power for GPON Int at ONT ITU-T G.984.2	TEC ER No. TEC14762301
		Receiver Sensitivity for GPON Int at OLT ITU-T G.984.2	TEC ER No. TEC14762301
		Receiver Sensitivity for GPON Int at ONT ITU-T G.984.2	TEC ER No. TEC14762301
	Interface: 2 Wire	Idle State Current for 2 wire Int (Products with 2 wire analog interfaces) ETSI EN 300 001	TEC ER No. TEC14762301

  
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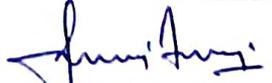
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>PON family of Broadband Equipment</b>	Insulation Test for 2 wire Int (Products with 2 wire analog interfaces) ITU-T Q.552	TEC ER No. TEC14762301
		Maximum Loop Current for 2W Int (Products with 2 wire analog TEC/IR/SW/PBX Interfaces) ITU-T Q.552	TEC ER No. TEC14762301
		Return Loss for 2 Wire Int (Products with 2 Wire analog Interfaces) ITU-T Q.552	TEC ER No. TEC14762301
<b>6.</b>	<b>IT Equipment Safety for Radio Products</b>	Components and construction Cl. 6	IEC 60215:2016
		Earthing Cl. 7.2	IEC 60215:2016

  
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Certificate Number: TEC/MRA/CAB/IND-D/63-III

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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IT Equipment Safety for Radio Products	Enclosures Cl. 7.3	IEC 60215:2016
		High Temperature, fire and miscellaneous hazards Cl. 8	IEC 60215:2016
		Insulations Cl. 7.6	IEC 60215:2016
		Mechanical consideration Cl. 7.4	IEC 60215:2016
		Protection against harmful electrical shock, radio frequency skin burns Cl. 7.1	IEC 60215:2016
		Voltage at the radio frequency output connection Cl. 7.7	IEC 60215:2016
		Wiring and Terminations Cl. 7.5	IEC 60215:2016

  
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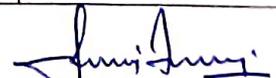
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

<b>Sl. No.</b>	<b>Telecom Equipment/Product</b>	<b>Test Parameter or Type of Testing</b>	<b>Standard/Specification</b>
<b>7.</b>	<b>Environmental Testing of Telecommunication equipment</b>	Low temperature (Cold Cycle)	QM-333 Issue March 2010
		High temperature (Dry Heat Cycle)	QM-333 Issue March 2010
		Tropical exposure (Damp Heat Cyclic)	QM-333 Issue March 2010
		Rapid temperature cycle	QM-333 Issue March 2010
		Damp heat (Steady state)	QM-333 Issue March 2010
		Vibration Test	QM-333 Issue March 2010
		Sealing (Gas tightness)/High Altitude Test	QM-333 Issue March 2010
		Water immersion Test	QM-333 Issue March 2010
		Corrosion -Salt	QM-333 Issue March 2010

  
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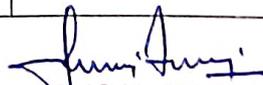
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Environmental Testing of Telecommunication equipment</b>	Drop Test	QM-333 Issue March 2010
		Topple test	QM-333 Issue March 2010
		Fall test	QM-333 Issue March 2010
		Dust Test	QM-333 Issue March 2010
<b>8. Information Technology Equipment- Safety Part-22</b>	Bottoms of fire enclosure Clause 8.4	IEC 60950-22	
	Constructional requirements for outdoor enclosure, General Clause 8, 8.1	IEC 60950-22	
	Impact test Clause 10.2	IEC 60950-22	
	Limited Current Circuits in outdoor locations Clause 6.2	IEC 60950-22	
	Mains Supply	IEC 60950-22	

  
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**Validity:** 26/04/2023 to 25/04/2026

**Last Amended on:** ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	<b>Information Technology Equipment- Safety Part-22</b>	Clause 4.2	
		Marking and instruction Clause 5	IEC 60950-22
		Mechanical strength of enclosures, General Clause 10, 10.1	IEC 60950-22
		Protection from electrical shock in an outdoor location, Voltage limits of user-accessible parts in outdoor locations Clause 6.1	IEC 60950-22
		Protection from plant and vermin Clause 9.2	IEC 60950-22
		Protection of equipment within an outdoor enclosure, Protection from moisture Clause 9.1	IEC 60950-22
		Resistance to corrosion Clause 8.3	IEC 60950-22

  
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Validity: 26/04/2023 to 25/04/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment- Safety Part-22	Rise of earth potential Clause 4.3	IEC 60950-22
		Protection from excessive dust (IP5X, IP6X) Clause 9.3	IEC 60950-22

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

No. -1-102/2022- सी.ए. /टी. ई. सी

Dated: 06.10.2023

**Addendum**

**Subject: Designation of M/s AA Electro Magnetic Test Laboratory Private Limited, Gurugram as Conformity Assessment Body (CAB).**

**Ref: 1. CAB Designation Certificate No. TEC/MRA/CAB/IND-D/63-III dated 26.04.2023**

It is informed that the existing scope of Designation of M/s AA Electro Magnetic Test Laboratory Private Limited, Gurugram as CONFORMITY ASSESSMENT BODY (CAB) of TEC has been enhanced in respect of following test parameters on account of inclusion of these test parameters in its NABL Scope of Accreditation w.e.f. the date of issue of this Addendum:

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
1.	<b>PTP PMP Microwave Fixed Radio Systems</b>	<b>Parameters Linked with Product Variant</b>	Receiver Selectivity ETSI EN 302 217-2 Cl. 5.3.3	TEC ER No. TEC56422308
			Receiver Spurious Emission ETSI EN 302 217-2 Cl. 6.4.2	TEC ER No. TEC56422308
			RF Spectrum Mask ETSI EN 302 217-2 Cl. 5.2.3	TEC ER No. TEC56422308
			Transmitter Power and Power Tolerance ETSI EN 302 217-2 Cl. 4.2.1,5.2.1	TEC ER No. TEC56422308
			Transmitter Power and Frequency control ETSI EN 302 217-2 Cl. 4.2.2,5.2.2	TEC ER No. TEC56422308
2.	<b>Base Station for Cellular Network</b>	<b>BTS with AAS (up to 4G only &amp; excluding OTA AAS)</b>	Adjacent channel selectivity and narrowband blocking or In Band Blocking and Narrow band Blocking 3GPP TS 37.145-1 Clause 7.4	TEC ER No. TEC42722304

	<b>Base Station for Cellular Network</b>	<b>BTS with MSR (up to 4G only)</b>	Transmitter spurious emissions 3GPP TS 37.141 Clause 6.6.1	TEC ER No. TEC42722304
		<b>BTS for GSM</b>	Mean transmitted RF carrier power 3GPP TS 51.021 Clause 6.3	TEC ER No. TEC42722304

2. This letter is issued as Addendum to Certificate No. TEC/MRA/CAB/IND-D/63-III dated 26.04.2023 for carrying out testing against standards as mentioned above.
3. All other scope, terms and conditions and validity of the CAB Designation Certificate No. TEC/MRA/CAB/IND-D/63-III dated 26.04.2023 shall remain unchanged.
4. This is issued with the approval of Competent Authority.

Signed by Sanjay Bhardwaj  
Date: 06-10-2023 11:12:08  
Reason: Approved  
(Sanjay Bhardwaj)  
Assistant Director (CA-I)  
TEC, New Delhi

To,

**Shri Bittu Kumar, Lab Manager,**  
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