



# 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

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

Sanjeev Kumar Arya
Director (CA)
or Designating Authority

For Designating Authority

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

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.

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<sup>\*</sup>Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

- It shall notify the DA in writing of occurrence of any of the following incident(s) within 9. 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

#### В. REFERENCE TO DESIGNATION STATUS

- Designated CABs may advertise their designation status with regard to standards or 1. parts thereof which are included in the scope of designation.
- The advertisement should not imply, or otherwise suggest that DA or MRA Partner 2. has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
- CABs whose designations have been suspended or withdrawn for any reason, shall 3. 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 nonroutine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

#### SUSPENSION OR WITHDRAWAL OF DESIGNATION D.

- DA shall suspend or withdraw the designation of a CAB if 1.
  - 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.
- A CAB whose designation, and recognition in case of MRA, has been suspended or 2. withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
- DA shall keep the designation of a Designated CAB under suspension, until the 3. completion of formal review process.

#### AMENDMENT TO THE SCHEME E.

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:** 

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

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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

Last Amended on: ----

SI. No.	Telecom Equipment/ Product	I lest tataineter of 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
		- <del>1</del>	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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## SCOPE OF DESIGNATION (ANNEXURE)

**Test Parameter or Type of Testing** 

**Laboratory Name:** 

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

Telecom

Last Amended on: ----

Standard/

No.	Equipment/ Product	Test Farameter C	Specification	
No.			Facilities for access ETSI EN 300 113 Cl. 6.9  Impedance ETSI EN 300 113 Cl. 6.6  Inter modulation attenuation ETSI EN 300 113 Cl. 7.6  Maximum Effective radiated power ETSI EN 300 113 Cl. 7.3	TEC ER No. TEC56782301  TEC ER No. TEC56782301  TEC ER No. TEC56782301  TEC ER No. TEC56782301
		#数 (2017 - 201	Cl. 7.3	

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

Telecom

Last Amended on: ----

Standard/

No.	Equipment/ Product			Specification
	Mobile Radio Trunking System		Modes of operation of the transmitter for constant envelope equipment ETSI EN 300 113 Cl. 6.11	TEC ER No. TEC56782301
		£ 54	Normal test signals (wanted and unwanted signals) ETSI EN 300 113 Cl. 6.3	TEC ER No. TEC56782301
		-, - v	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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Validity: 26/04/2023 to 25/04/2026

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Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		

Mobile Radio	n,	Test site and general	TEC ER No.
Trunking System	13	arrangements for	TEC56782301
		measurements involving the	
	110	use of radiated field	
	==	ETSI EN 300 113	1,5
1	14:	Cl. 6.10	
		Test of equipment with a	TEC ER No.
	77	duplex filter	TEC56782301
		ETSI EN 300 113	
		Cl. 6.8	
		Transceiver data interface	TEC ER No.
	The same of	ETSI EN 300 113	TEC56782301
		Cl. 6.5	
		Transmitter attack time	TEC ER No.
	with the same of t	ETSI EN 300 113	TEC56782301
		Cl. 7.7	

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

Telecom

| Equipment/

No.

Last Amended on: ----

Standard/

Specification

	Product	1		
	Mobile Radio Trunking System	E	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 Frequency error ETSI EN 300 113 Cl. 7.1	TEC ER No. TEC58432301  TEC ER No. TEC58432301
			Transmitter power (conducted) ETSI EN 300 113 Cl. 7.2	TEC ER No. TEC58432301

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**Test Parameter or Type of Testing** 

**Laboratory Name:** 

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Standard/

No.	Equipment/ Product			Specification
	VHF UHF Radio System Equipment	1	Unwanted emissions in the spurious domain ETSI EN 300 113 Cl. 7.5	TEC ER No. TEC58432301
7		rije	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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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	VHF UHF Radio	alita est a	Encoder for receiver	TEC ER No.
	System Equipment		measurements	TEC58432301
			ETSI EN 300 113	
			Cl. 6.4	
	the state of the s		Facilities for access	TEC ER No.
	1		ETSI EN 300 113	TEC58432301
			Cl. 6.9	
			Impedance	TEC ER No.
			ETSI EN 300 113	TEC58432301
	7 1		Cl. 6.6	
			Inter modulation attenuation	TEC ER No.
			ETSI EN 300 113	TEC58432301
			Cl. 7.6	
			Maximum Effective radiated	TEC ER No.
	the Paris .		power	TEC58432301
			ETSI EN 300 113	
			Cl. 7.3	
1				Λ

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter	or Type of Testing	Standard/ Specification
	VHF UHF Radio System Equipment	t	Modes of operation of the transmitter for constant envelope equipment ETSI EN 300 113 Cl. 6.11	TEC ER No. TEC58432301
		y = 1.	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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Validity: 26/04/2023 to 25/04/2026

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Sl. No.	Telecom Equipment/ Product	I CSt I di diliciti di I VDC di I CStilla		Standard/ Specification
	VHF UHF Radio		Test site and general	TEC ER No.
	System Equipmen	t	arrangements for	TEC58432301
			measurements involving the	

System Equipment		arrangements for measurements involving the use of radiated field ETSI EN 300 113 Cl. 6.10	TEC58432301
	- 142 - 242 - 342	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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### SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

**Laboratory Name:** 

Sl. Telecom

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Standard/

No.	Equipment/ Product			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 Spurious emission 3GPP TS 37.145-1 Clause 6.6.6	TEC ER No. TEC42722304  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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## SCOPE OF DESIGNATION (ANNEXURE)

**Test Parameter or Type of Testing** 

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**Telecom** 

Last Amended on: ----

Standard/

Specification

No.	Product		Specification
	Base Station for Cellular Network	Spectrum emission mask 3GPP TS 37.145-1 Clause 6.6.4  Transmitter intermodulation 3GPP TS 37.145-1 Clause 6.7  Reference sensitivity level 3GPP TS 37.145-1 Clause 7.2  Blocking or out-of-band blocking 3GPP TS 37.145-1 Clause 7.5	TEC ER No. TEC42722304  TEC ER No. TEC42722304  TEC ER No. TEC42722304  TEC ER No. TEC42722304
		Receiver spurious emissions 3GPP TS 37.145-1 Clause 7.6	TEC ER No. TEC42722304

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Last Amended on: ----

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		

	Base Station for		Receiver intermodulation	TEC ER No.
	Cellular Network	Y	3GPP TS 37.145-1	TEC42722304
		13.	Clause 7.7	
		BTS with	Base Station output power	TEC ER No.
		MSR (up to	3GPP TS 37.141	TEC42722304
		4G only)	Clause 6.2	1 1
			Operating band unwanted	TEC ER No.
			emissions	TEC42722304
			3GPP TS 37.141	
	To the second		Clause 6.6.2	1 " " "
-		9 - 35	Adjacent Channel Leakage	TEC ER No.
			Power Ratio (ACLR)	TEC42722304
		94.	3GPP TS 37.141	
	V 12	W W	Clause 6.6.4	
		214 T T T 54 K 1	Transmitter intermodulation	TEC ER No.
		lje - 1 en es	3GPP TS 37.141	TEC42722304
		plan all	Clause 6.7	

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter of	Test Parameter or Type of Testing	
70.	Base Station for Cellular Network		Receiver spurious emissions 3GPP TS 37.141 Clause 7.6	TEC ER No. TEC42722304

Cellular Network	,	3GPP TS 37.141 Clause 7.6	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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## SCOPE OF DESIGNATION (ANNEXURE)

**Test Parameter or Type of Testing** 

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Equipment/

No

Last Amended on: ----

Standard/

Specification

No.	Product			Specification
	Dana C4-41 for-	-NJ-1-D 6	On anoting hand unwanted	TEC ER No.
•	Base Station for	eNodeB for	Operating band unwanted	
	Cellular Network	LTE	emissions	TEC42722304
			3GPP TS 36.141	
	1		Clause 6.6.3	
		7	Adjacent Channel Leakage	TEC ER No.
			Power Ratio (ACLR)	TEC42722304
			3GPP TS 36.141	
		13 1000	Clause 6.6.2	
		6.	Transmitter spurious	TEC ER No.
		- gas	emissions	TEC42722304
		-10	3GPP TS 36.141	
			Clause 6.6.4	
			Base station output power	TEC ER No.
			3GPP TS 36.141	TEC42722304
			Clause 6.2	
-				

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SI. 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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Standard/

No.	Equipment/ Product	Test Farameter of Type of Testing	Specification
	Base Station for Cellular Network	Reference sensitivity level 3GPP TS 36.141 Clause 7.2	TEC ER No. TEC42722304
		Home BS output power fo 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	

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**Test Parameter or Type of Testing** 

**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

**Telecom** 

Last Amended on: ----

Standard/

No.	Equipment/ Product	Test Parameter of Type of Testing		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	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

## 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-

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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: ----

No.   Equipment/   Specification   Product   Specification	Standard/ Specification	
Base Station for Cellular Network  Base station output power 3GPP TS 25.141 TEC4272230  Transmitter intermodulation TEC ER No. 3GPP TS 25.141 TEC4272230  Clause 6.6  Spurious Emissions TEC ER No. 3GPP TS 25.141 TEC4272230  Clause 7.7  Blocking characteristics TEC ER No. 3GPP TS 25.141 TEC4272230  Clause 7.5  Intermodulation TEC ER No. TEC4272230  Clause 7.5	04	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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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-

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1	SI.	Telecom	Test Parameter or Type of Testing	Standard/
	No.	Equipment/		Specification
		Product		
_		-		

Base Station for		Adjacent Channel Selectivity	TEC ER No.
Cellular Network		(ACS)	TEC42722304
	100	3GPP TS 25.141	
1912	7	Clause 7.4	
		Reference sensitivity level	TEC ER No.
		3GPP TS 25.141	TEC42722304
		Clause 7.2	
		Home base station output	TEC ER No.
		power for adjacent channel	TEC42722304
		protection	
		3GPP TS 25.141	
		Clause 6.4.6	
	BTS for	Adjacent channel power	TEC ER No.
	GSM	3GPP TS 51.021	TEC42722304
		Clause 6.5	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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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-

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Sl. No.	Telecom Equipment/	Test Parameter or Type of Testing	Standard/ Specification
No.	Equipment/   Product		Specification

Base Station for	Wideband noise and intra	TEC ER No.
Cellular Network	BSS intermodulation	TEC42722304
	attenuation in multicarrier	
	operation	
	3GPP TS 51.021	
	Clause 6.12	
	Spurious emissions from the	TEC ER No.
	transmitter antenna connector	TEC4272230
	3GPP TS 51.021	
	Clause 6.6	
	Intermodulation attenuation	TEC ER No.
11.1	3GPP TS 51.021	TEC4272230
	Clause 6.7	
$= v_0^*$	Intra Base Station System	TEC ER No.
	intermodulation attenuation	TEC42722304
	3GPP TS 51.021	
	Clause 6.8	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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

**Test Parameter or Type of Testing** 

**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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Last Amended on: ----

Standard/

No.	Equipment/ Product		g and a second	Specification
	12.4			
	Base Station for	477	Radiated spurious emissions	TEC ER No.
	Cellular Network	1	3GPP TS 51.021	TEC42722304
		77:	Clause 8	
			Static Reference Sensitivity	TEC ER No.
		35- 17	Level	TEC42722304
		7.1	3GPP TS 51.021	
	10.0	75	Clause 7.3	
	Jen.		Reference interference level	TEC ER No.
			3GPP TS 51.021	TEC42722304
		5	Clause 7.5	
		V4114 *2.1	Blocking Characteristics	TEC ER No.
			3GPP TS 51.021	TEC42722304
			Clause 7.6	
			Intermodulation	TEC ER No.
			characteristics	TEC42722304
		7.4	3GPP TS 51.021	
			Clause 7.7	
	1			

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

**Laboratory Name:** 

Sl. Telecom

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: ----

Standard/

No.	Equipment/ Product	1 est 1 di dineter (	n Type of Testing	Specification
F. 18	Base Station for		AM suppression	TEC ER No.
	Cellular Network	3	3GPP TS 51.021	TEC42722304
			Clause 7.8	
			Spurious emissions from the	TEC ER No.
7		145 146	receiver antenna connector	TEC42722304
		7	3GPP TS 51.021	
		X -2	Clause 7.9	
4.	LAN Switch	Interface: 1	Average Launch power	TEC ER No.
		G Optical	IEEE 802.3z Cl. 38. Annex-H	TEC37942304
		Ethernet	Receiver Sensitivity	TEC ER No.
		A Herri	IEEE 802.3z Cl. 38. Annex-H	TEC37942304
			Wavelength	TEC ER No.
			*IEEE 802.3z Cl. 38. Annex-H	TEC37942304
		Interface: 10	Average Launch power	TEC ER No.
		G Optical	IEEE 802.3ae	TEC37942304
		Ethernet	Cl. 52. Annex-H	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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## SCOPE OF DESIGNATION (ANNEXURE)

**Test Parameter or Type of Testing** 

**Laboratory Name:** 

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

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Telecom

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Standard/

No.	Equipment/ Product	quipment/		Specification	
	LAN Switch	** P== **	Receiver Sensitivity IEEE 802.3ae	TEC ER No. TEC37942304	
		1 941	Cl. 52. Annex-H		
	2 1		Wavelength	TEC ER No.	
			IEEE 802.3ae	TEC37942304	
			Cl. 52. Annex-H		
		Interface:	Average Launch power	TEC.ER No.	
		100 G	IEEE 802.3ba	TEC37942304	
		Optical	Cl. 86 88. Annex-H		
-  -		Ethernet	Receiver Sensitivity	TEC ER No.	
			IEEE 802.3ba	TEC37942304	
			Cl. 86 88. Annex-H		
			Wavelength	TEC ER No.	
		44.4	IEEE 802.3ba	TEC37942304	
			Cl. 86 88. Annex-H		
		Interface: 40	Average Launch power	TEC ER No.	
		G Optical	IEEE 802.3ba	TEC37942304	
		Ethernet	Cl. 86 87. Annex-H		

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## SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

**Laboratory Name:** 

Sl Telecom

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

122016.

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Last Amended on: ----

Standard/

No.	Equipment/ Product		est Parameter (	Specification	
	LAN Switch	. 13		Receiver Sensitivity	TEC ER No.
	LAN SWITCH			IEEE 802.3ba	TEC37942304
				Cl. 86 87. Annex-H	1EC37742304
			7.7	Wavelength	TEC ER No.
				IEEE 802.3ba	TEC ER No. TEC37942304
				Cl. 86 87. Annex-H	1EC37942304
			T . C	S 1992 - C F	TEC ED N.
			Interface:	Average Launch power	TEC ER No.
			Fast	IEEE 802.3u. Annex-H	TEC37942304
			Ethernet	Receiver Sensitivity	TEC ER No.
			Optical	IEEE 802.3u. Annex-H	TEC37942304
				Wavelength	TEC ER No.
1	- 5-1 2			IEEE 802.3u. Annex-H	TEC37942304
	1 - 11				
			Interface: 10	Link Speed and	TEC ER No.
			100 1000	Autonegotiation Test GE	TEC37942304
			BASE-T	IEEE 802.3. Annex-H	
			Ethernet		
					1

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

**Test Parameter or Type of Testing** 

**Laboratory Name:** 

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

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Telecom

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Standard/

Equipment/ Product			Specification
LAN Switch	Interface: 10	Link Speed and Auto	TEC ER No.
	100 BASE-T	negotiation Test FE	TEC37942304
	Ethernet	IEEE 802.3 Annex-H	
	Interface: 2	Input Jitter Tolerance for 2	TEC ER No.
	Mbps Int.	Mbps Int.	TEC37942304
	170	ITU-T G.823/ ETSI TBR-4	
		Input Return Loss for 2 Mbps	TEC ER No.
		Int.	TEC37942304
		ITU-T G.703/ ETSI TBR-4	
		Clause 9.3.1	
		Nominal Bit Rate with	TEC ER No.
	54 %	Tolerance 2 Mbps Int.	TEC37942304
		ITU-T G.703/ ETSI TBR-4	
		Clause 9.2.3	
	. 475	123 13 1	
	Product	LAN Switch Interface: 10 100 BASE-T Ethernet Interface: 2	LAN Switch  Interface: 10   Link Speed and Auto   100 BASE-T   Ethernet   IEEE 802.3 Annex-H   Interface: 2   Input Jitter Tolerance for 2   Mbps Int.   ITU-T G.823/ ETSI TBR-4   Input Return Loss for 2 Mbps Int.   ITU-T G.703/ ETSI TBR-4   Clause 9.3.1   Nominal Bit Rate with   Tolerance 2 Mbps Int.   ITU-T G.703/ ETSI TBR-4

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

**Laboratory Name:** 

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

**122016.** ·

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**Telecom** 

No. Equipment/

Last Amended on: ----

Standard/

Specification

110.	Product			_
				_
	LAN Switch		Output Jitter for 2 Mbps Int.	TEC ER No.
		50 - 40 - 10	ITU-T G.823/ ETSI TBR-4	TEC37942304
			Pulse Mask for 2 Mbps Int.	TEC ER No.
			ITU-T G.703/ ETSI TBR-4	TEC37942304
		1.7		
5.	PON family of	Interface:	Link Speed and Auto	TEC ER No.
	Broadband	10/100 Base-	Negotiation for FE IEEE	TEC14762301
	Equipment	T Ethernet	802.3	
		Interface:	Link Speed and Auto	TEC ER No.
		10/100/1000	Negotiation for GE IEEE	TEC14762301
		Base-T	802.3	
		Ethernet		
		Interface:	Operating Wavelength	TEC ER No.
		EPON	receiver for EPON Int IEEE	TEC14762301
			802.3ah	
			Operating Wavelength	TEC ER No.
			Transmitter for EPON Int	TEC14762301
			IEEE 802.3ah	

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

**Test Parameter or Type of Testing** 

**Laboratory Name:** 

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

122016.

Sl. | Telecom

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Standard/

No.	Equipment/ Product			Specification
	PON family of Broadband Equipment	<u>.</u>	Opt Output Power for EPON Int at OLT IEEE 802.3ah	TEC ER No. TEC14762301
	Equipment		Opt Output Power for EPON Int at ONT IEEE 802.3ah	TEC ER No. TEC14762301
	-(1		Receiver Sensitivity for EPON Int at OLT IEEE 802.3ah	TEC ER No. TEC14762301
	7		Receiver Sensitivity for EPON Int at ONT IEEE 802.3ah	TEC ER No. TEC14762301
		Interface: GPON	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

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

**Laboratory Name:** 

Sl. Telecom

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

122016.

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Standard/

No.	Equipment/ Product			Specification
	PON family of	×	Opt Output Power for GPON	TEC ER No.
	Broadband	A - trace in	Int at OLT	TEC14762301
	Equipment	2	ITU-T G.984.2	
	1 1		Opt Output Power for GPON	TEC ER No.
	F( 1) F1		Int at ONT	TEC14762301
			ITU-T G.984.2	
		tes files	Receiver Sensitivity for	TEC ER No.
		A 7 1	GPON Int at OLT	TEC14762301
			ITU-T G.984.2	
			Receiver Sensitivity for	TEC ER No.
			GPON Int at ONT	TEC14762301
			ITU-T G.984.2	
		Interface:	Idle State Current for 2 wire	TEC ER No.
		2 Wire	Int	TEC14762301
		, T	(Products with 2 wire analog	
			interfaces)	
			ETSI EN 300 001	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

**Test Parameter or Type of Testing** 

**Laboratory Name:** 

SI.

No.

M/s AA Electro Magnetic Test Laboratory Private Limited,

Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-

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Equipment/

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Standard/

**Specification** 

	Product			
	9.			
	PON family of	a series y	Insulation Test for 2 wire Int	TEC ER No.
	Broadband		(Products with 2 wire analog	TEC14762301
	Equipment		interfaces)	
			ITU-T Q.552	
			Maximum Loop Current for	TEC ER No.
			2W Int (Products with 2 wire	TEC14762301
			analog TEC/IR/SW/PBX	
			Interfaces)	
			ITU-T Q.552	
			Return Loss for 2 Wire Int	TEC ER No.
			(Products with 2 Wire analog	TEC14762301
			Interfaces)	
			ITU-T Q.552	
6.	IT Equipment	Components as	nd construction	IEC 60215:2016
	Safety for Radio	Cl. 6		
	Products	Earthing	Mensy -	IEC 60215:2016
,		Cl. 7.2		
		29-		
				^ ^

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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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-

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Sl. No.	Telecom Equipment/	Test Parameter or Type of Testing	Standard/ Specification
	Product		
	ID D	T. L.	IEC (0215,2016
	IT Equipment	Enclosures	IEC 60215:2016
	Safety for Radio	Cl. 7.3	
	Products	High Temperature, fire and miscellaneous	IEC 60215:2016
		hazards	
		Cl. 8	
	w	Insulations	IEC 60215:2016
		Cl. 7.6	
		Mechanical consideration	IEC 60215:2016
		Cl. 7.4	
		Protection against harmful electrical shock,	IEC 60215:2016
		radio frequency skin burns	
		Cl. 7.1	
		Voltage at the radio frequency output	IEC 60215:2016
		connection	
		Cl. 7.7	
		Wiring and Terminations	IEC 60215:2016
		Cl. 7.5	

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name:** 

M/s AA Electro Magnetic Test Laboratory Private Limited,

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122016.

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SI. No.	Telecom T Equipment/ Product	est Parameter or Type of Testing	Standard/ Specification
7.	Environmental Testing of	Low temperature (Cold Cycle)	QM-333 Issue March 2010
	Telecommunication equipment	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

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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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.

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Environmental Testing of	Drop Test	QM-333 Issue March 2010
	Telecommunication equipment	Topple test	QM-333 Issue March 2010
	-1	Fall test	QM-333 Issue March 2010
-		Dust Test	QM-333 Issue March 2010
8.	Information Technology	Bottoms of fire enclosure Clause 8.4	IEC 60950-22
	Equipment- Safety Part-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

\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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### SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name:** 

M/s AA Electro Magnetic Test Laboratory Private Limited,

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information	Clause 4.2	
	Technology Equipment- Safety	Marking and instruction Clause 5	IEC 60950-22
	Part-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	IEC 60950-22
		Clause 6.1 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

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.



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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-

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Standard/

No.	Equipment/ Product		Specification
	Information	Rise of earth potential	IEC 60950-22
	Technology	Clause 4.3	
	<b>Equipment-Safety</b>	Protection from excessive dust	IEC 60950-22
1	Part-22	(IP5X, IP6X)	
		Clause 9.3	

**Test Parameter or Type of Testing** 

<sup>\*</sup>The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.

## 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.	PTP PMP Microwave Fixed Radio Systems	Parameters Linked with Product Variant	Receiver Selectivity ETSI EN 302 217-2 Cl. 5.3.3 Receiver Spurious Emission ETSI EN 302 217-2 Cl. 6.4.2 RF Spectrum Mask ETSI EN 302 217-2 Cl. 5.2.3 Transmitter Power and Power Tolerance ETSI EN 302 217-2 Cl. 4.2.1,5.2.1 Transmitter Power and Frequency control ETSI EN 302 217-2 Cl. 4.2.2,5.2.2	TEC ER No. TEC56422308  TEC ER No. TEC56422308  TEC ER No. TEC56422308  TEC ER No. TEC56422308  TEC ER No. TEC56422308
2.	Base Station for Cellular Network	BTS with AAS (up to 4G only & excluding OTA AAS)	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

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Base Station for Cellular Network	BTS with MSR (up to 4G only)	Transmitter spurious emissions 3GPP TS 37.141 Clause 6.6.1	TEC ER No. TEC42722304
	BTS for GSM	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, M/s AA Electro Magnetic Test Laboratory Private Limited Plot N0. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122 016, Haryana

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