



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

Plot NO. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016, Haryana

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/63-II

Issue Date: 16/04/2025

Validity: 05/04/2025 to 04/04/2028

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

Digitally signed by
Sanjeev Kumar Arya
Date: 16-04-2025
17:23:55
Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC

**Certificate No: TEC/MRA/CAB/IND-D/63-II dated 16/04/2025 issued to
M/s AA Electro Magnetic Test Laboratory Private Limited
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122 016**



Validity: - 05/04/2025 to 04/04/2028

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 recognised Indian accreditation body like NABL during validity period of certificate.
2. It shall follow the stipulated procedures, rules and policies laid down by Designating Authority (DA) or Mutual Recognition Agreement (MRA)* partner for testing and evaluation.
3. In respect of tests for which it is seeking designation, it shall have no interest whatsoever in any business to carry on testing in an unfair or biased manner.
4. It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.
5. It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.
6. It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.
7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.
8. It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.

*Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence
 - a) Cessation of its business of conformity assessment for which it is Designated or accredited
 - b) Changes in its legal, commercial, or Organisational status
 - c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
 - d) Change of premises

B. REFERENCE TO DESIGNATION STATUS

1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

C. POST-DESIGNATION SURVEILLANCE

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

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

1. DA shall suspend or withdraw the designation of a CAB if
 - a. Its accreditation is withdrawn.
 - b. It is found that the CAB is not complying with the stipulated criteria or requirements.
 - c. It is guilty of any offence involving fraud or dishonesty.
 - d. DA concludes that there is a just cause for withdrawing the designation.
2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

E. AMENDMENT TO THE SCHEME

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
Gurugram-122 016, Haryana

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

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Validity: 05/04/2025 to 04/04/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Equipment Operating in 2.4 GHz, 5 GHz Frequency Bands	RF Output Power (Conductive only) ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.2 & 4.3.2.2, 5.3.2	TEC ER No. TEC59432407
		Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause- 4.3.2.3 & 5.3.3	TEC ER No. TEC59432407
		Duty Cycle, Tx sequence, Tx-gap ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.3, 4.3.2.4 & 5.3.2	TEC ER No. TEC59432407
		Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.13, 4.3.2.12	TEC ER No. TEC59432407
		Accumulated Transmit Time, Frequency occupation and Hopping sequence ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.4 & 5.3.4	TEC ER No. TEC59432407
		Hopping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.5 & 5.3.5	TEC ER No. TEC59432407
		Medium Utilization ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.6, 4.3.2.5 & 5.3.2	TEC ER No. TEC59432407
		Adaptivity ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.7 or 4.3.2.6 & 5.3.7	TEC ER No. TEC59432407
		Occupied Channel Bandwidth ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.8, 4.3.2.7 & 5.3.8	TEC ER No. TEC59432407
	Equipment Operating in 2.4 GHz, 5 GHz Frequency Bands	Transmitter Unwanted emissions in OOB Domain ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.9, 4.3.2.8 & 5.3.9	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment operating in 2.4 GHz, 5 GHz Frequency Bands	Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.10, 4.3.2.9 & 5.3.10	TEC ER No. TEC59432407
		Receiver Spurious Emission ETSI EN 300 328 V 2.2.2 Clause 4.3.1.11, 4.3.2.10 & 5.3.11	TEC ER No. TEC59432407
		Receiver Blocking ETSI EN 300 328 V 2.2.2 Clause- 4.3.1.12, 4.3.2.11 & 5.3.7	TEC ER No. TEC59432407
		Carrier Frequencies ETSI EN 301 893 V2.1.1 Clause- 4.2.1	TEC ER No. TEC59432407
		Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1 Clause- 4.2.2	TEC ER No. TEC59432407
		RF Output Power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V2.1.1 Clause- 4.2.3	TEC ER No. TEC59432407
		Transmitter unwanted Emissions outside the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause- 4.2.4.1	TEC ER No. TEC59432407
		Transmitter unwanted Emissions within the 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 Clause- 4.2.4.2	TEC ER No. TEC59432407
		Receiver Spurious Emission ETSI EN 301 893 V2.1.1 Clause- 4.2.5	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment operating in 2.4 GHz, 5 GHz Frequency Bands	Geo Location Capability ETSI EN 301 893 V2.1.1 Clause- 4.2.10	TEC ER No. TEC59432407
		Dynamic Frequency Selection (DFS) ETSI EN 301 893 V2.1.1 Clause- 4.2.6.2	TEC ER No. TEC59432407
		Adaptivity ETSI EN 301 893 V2.1.1 Clause- 4.2.7	TEC ER No. TEC59432407
		Receiver Blocking ETSI EN 301 893 V2.1.1 Clause- 4.2.8	TEC ER No. TEC59432407
		Designation of Centre Frequencies and Frequency error ETSI EN 302 502 V2.1.1 Clause- 4.2.1	TEC ER No. TEC59432407
		Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI EN 302 502 V2.1.1 Clause- 4.2.2, 5.4.3	TEC ER No. TEC59432407
		Transmitter Unwanted Emission ETSI EN 302 502 V2.1.1 Clause- 4.2.3, 5.4.4	TEC ER No. TEC59432407
		Transmitter Power Control (TPC) ETSI EN 302 502 V2.1.1 Clause- 4.2.4	TEC ER No. TEC59432407
		Receiver Spurious Emission ETSI EN 302 502 V2.1.1 Clause- 4.2.5, 5.4.5	TEC ER No. TEC59432407
		Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 Clause- 4.2.6, 5.4.6	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification	
		Receiver Blocking ETSI EN 302 502 V2.1.1 Clause- 4.2.7, 5.4.7		TEC ER TEC59432407	No.
		Frequency Error ETSI EN 302 502 V2.1.1 Clause- 5.4.2		TEC ER TEC59432407	No.
2.	EMI/EMC testing of Telecom Products	Voltage Dips, short interruption and Voltage variations immunity Test on DC input power port immunity test IEC 61000-4-29			
3.	Mobile User Equipment	Parameters Linked with Product Variant	Mobile Device Indian Language Support IS 16333 (Part 3) Inputting of Text Clause 5/5.1 Marking 6/6.1/6.2/6.2.1 Message readability Clause 5/5.2	TEC ER TEC47722408	No.
	Mobile User Equipment	Parameters Linked with Product Variant	Mobile Emergency Support - Call on 112DoT 16-04/2015-AS-III/NP/67/120 dt 4.5.16, 3GPP2 C.S0023 for CDMA2000, 3GPP TS 22.101 and TS 24.008for GSM/ UMTS/ LTE	TEC ER TEC47722408	No.
			Mobile Emergency Support - GPS Location G.S.R. No. 1441 (E)	TEC ER TEC47722408	No.

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Mobile Emergency Support - Panic Button G.S.R. No. 436 (E) dated 22-04-2016, 3GPP TS 22.101 for GSM/ UMTS/ LTE, 3GPP2 C.S0023 for CDMA	TEC ER No. TEC47722408
		Interface: GSM/GPRS / EDGE	TEC ER No. TEC47722408
		Transmitter Maximum Output Power for GSM 3GPP TS 51 010-1 Clause-13.3 or EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC47722408
		Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause-13.16.2 or EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC47722408
		Interface: GSM/GPRS/ EDGE	TEC ER No. TEC47722408
		Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause-13.4 or EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC47722408
		Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause-13.16.3 or EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC47722408
	Mobile User Equipment		

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface: GSM/GPRS/ EDGE	Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause-12.1.1 or EN 301 511 (GSM) Clause- 4.2.12
			TEC ER No. TEC47722408
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause-12.1.2 or EN 301 511 (GSM) Clause- 4.2.13
			TEC ER No. TEC47722408
			Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause-13.1 or EN 301 511 (GSM) Clause-4.2.1
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause-13.16.1 or EN 301 511(GSM) Clause-4.2.4
			TEC ER No. TEC47722408
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause-14.2.1 or EN 301 511 (GSM) Clause-4.2.42
			TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Adjacent Channel Rejection (Speech channels) 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC47722408
		Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC47722408
		Interface : WCDMA or HSPA Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 OR EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC47722408
		Interface : WCDMA or HSPA Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC47722408
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2 (UMTS) Clause- 4.2.4.1	TEC ER No. TEC47722408
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause-	TEC ER No. TEC47722408

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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
	Mobile User Equipment	6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC47722408
		Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC47722408
		Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause- 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC47722408
		Receiver In-band blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC47722408
		Interface: LTE or LTE-A Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 OR EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface: LTE or LTE-A	Spectrum Emissions Mask 3GPP TS 36.521-1 Clause 6.6.2.1 OR EN 301 908-13 (LTE) Clause- 4.2.3.1
			TEC ER No. TEC47722408
			Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 OR EN 301 908-13 (LTE) Clause- 4.2.4.1
			TEC ER No. TEC47722408
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10.1
			TEC ER No. TEC47722408
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause- 7.3 OR EN 301 908-13 (LTE) Clause- 4.2.12
			TEC ER No. TEC47722408
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 36.521-1 Clause- 7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6.1
			TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Receiver In-band blocking 3GPP TS 36.521-1 Clause-7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC47722408
		Interface: Wi-Fi RF Output Power(EIRP) ETSI EN 300 328 V 2.2.2 (EIRP for Wi-Fi Interface) Clause No.4.3.1.2 & 4.3.2.2, 5.3.2	TEC ER No. TEC47722408
		Interface: Wi-Fi Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause 4.3.2 & 5.3.3	TEC ER No. TEC47722408
		Duty Cycle, Tx sequence, Tx-gap ETSI EN 300 328 V 2.2.2 Clause 4.3.1.3, 4.3.2.4 & 5.3.2	TEC ER No. TEC47722408
		Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13, 4.3.2.12	TEC ER No. TEC47722408
	Mobile User	Accumulated Transmit Time, Frequency occupation and Hopping sequence ETSI EN 300 328	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment	V 2.2.2 Clause 4.3.1.4 & 5.3.4	
		Hopping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause 4.3.1.5 & 5.3.5	TEC ER No. TEC47722408
		Medium Utilization ETSI EN 300 328 V 2.2.2 Clause 4.3.1.6, 4.3.2.5 & 5.3.2	TEC ER No. TEC47722408
		Adaptivity ETSI EN 300 328 V 2.2.2 Clause 4.3.1.7 or 4.3.2.6 & 5.3.7	TEC ER No. TEC47722408
		Occupied Channel bandwidth ETSI EN 300 328 V 2.2.2 Clause 4.3.1.8, 4.3.2.7 & 5.3.8	TEC ER No. TEC47722408
	Mobile User Equipment	Transmitter Unwanted emissions in OOB Domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.9, 4.3.2.8 & 5.3.9	TEC ER No. TEC47722408

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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Transmitter unwanted emissions in the Spurious domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.10, 4.3.2.9 & 5.3.10	TEC ER No. TEC47722408
		Receiver Spurious Emission ETSI EN 300 328 V 2.2.2 Clause 4.3.1.11, 4.3.2.10 & 5.3.11	TEC ER No. TEC47722408
		Receiver Blocking ETSI EN 300 328 V 2.2.2 Clause 4.3.1.12, 4.3.2.11 & 5.3.7	TEC ER No. TEC47722408
		Carrier Frequencies ETSI EN 301 893 V 2.1.1 Clause 4.2.1	TEC ER No. TEC47722408
		Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V 2.1.1 Clause 4.2.2	TEC ER No. TEC47722408
	Mobile User Equipment	Interface: Wi-Fi	

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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
	Mobile User Equipment	Interface: Wi-Fi	RF Output Power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V 2.1.1 Clause 4.2.3	TEC ER No. TEC47722408
			Transmitter Unwanted Emissions outside the 5 GHz RLAN bands ETSI EN 301 893 V 2.1.1 Clause 4.2.4.1	TEC ER No. TEC47722408
			Transmitter Unwanted Emissions within the 5 GHz RLAN bands ETSI EN 301 893 V 2.1.1 Clause 4.2.4.2	TEC ER No. TEC47722408
			Receiver Spurious Emission ETSI EN 301 893 V 2.1.1 Clause 4.2.5	TEC ER No. TEC47722408
			Geo Location Capability ETSI EN 301 893 V 2.1.1 Clause 4.2.10	TEC ER No. TEC47722408
		Interface: Wi-	Dynamic Frequency Selection (DFS)	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Fi	ETSI EN 301 893 V 2.1.1 Clause 4.2.6.2
		Adaptivity ETSI EN 301 893 V 2.1.1 Clause 4.2.7	TEC ER No. TEC47722408
		Receiver Blocking ETSI EN 301 893 V 2.1.1 Clause 4.2.8	TEC ER No. TEC47722408
4.	Smart Watch	Interface: GSM/GPRS/ EDGE	Transmitter Maximum Output Power for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 (GSM) Clause- 4.2.5
		Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC28982407
		Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: GSM/GPRS/ EDGE	Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 (GSM) Clause- 4.2.11
			TEC ER No. TEC28982407
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 12.1.1 or EN 301 511 (GSM) Clause- 4.2.12
			TEC ER No. TEC28982407
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 (GSM) Clause- 4.2.13
			Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 (GSM) Clause- 4.2.1
			TEC ER No. TEC28982407
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511(GSM) Clause- 4.2.4
			TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification	
	Smart Watch	Interface: GSM/GPRS / EDGE	Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause-14.2.1 or EN 301 511 (GSM) Clause-4.2.42	TEC	ER No. TEC28982407
			Adjacent Channel Rejection (Speech channels) 3GPP TS 51 010-1 Clause-14.5.1 or EN 301 511 (GSM) Clause-4.2.38	TEC	ER No. TEC28982407
			Receiver Blocking 3GPP TS 51 010-1 Clause-14.7.1 or EN 301 511 (GSM) Clause-4.2.20	TEC	ER No. TEC28982407
		Interface : WCDMA or HSPA	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause-5.2 OR EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC	ER No. TEC28982407
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause-5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC	ER No. TEC28982407
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause-5.11 OR	TEC	ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface : WCDMA or HSPA	
		EN 301 908-2 (UMTS) Clause- 4.2.4.1	
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28982407
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC28982407
		Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28982407
		Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause- 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC28982407
		Receiver In-band blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR	TEC ER No. TEC28982407

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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
		EN 301 908-2 (UMTS) Clause- 4.2.7	
		Interface: LTE or LTE-A	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 OR EN 301 908-13 (LTE) Clause- 4.2.2.1
			TEC ER No. TEC28982407
		Spectrum Emissions Mask 3GPP TS 36.521-1 Clause 6.6.2.1 OR EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC28982407
		Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 OR EN 301 908-13 (LTE) Clause- 4.2.4.1	TEC ER No. TEC28982407
		Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10.1	TEC ER No. TEC28982407
	Smart Watch	Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause- 7.3 OR EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC28982407
		Interface:	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	LTE or LTE-A	Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 36.521-1 Clause-7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC28982407
			Receiver In-band blocking 3GPP TS 36.521-1 Clause-7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC28982407
		Interface: BLE	Frequency of Operation for BLE Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER No. TEC28982407
			Maximum Transmit Power for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC28982407
			EIRP for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC28982407
		Interface:	Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
		BLE	Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4, 4.3.2.4 & 5.4.2	TEC ER No. TEC28982407
			Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4 & 5.4.4	TEC ER No. TEC28982407
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6 or 4.3.2.5 & 5.4.5	TEC ER No. TEC28982407
	Smart Watch		Medium Utilization (MU) factor ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6, 4.3.2.5 & 5.4.2	TEC ER No. TEC28982407
		Interface: BLE	Adaptivity ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.7 or 4.3.2.6 & 5.4.6	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.8 or 4.3.2.7 & 5.4.7	TEC ER No. TEC28982407
		Transmitter Unwanted Emission in the OOB domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.9 or 4.3.2.8 & 5.4.8	TEC ER No. TEC28982407
		Transmitter Unwanted Emissions in the Spurious domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.10 or 4.3.2.9 & 5.4.9	TEC ER No. TEC28982407
		Interface: BLE Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.11 or 4.3.2.10 & 5.4.10	TEC ER No. TEC28982407

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SCOPE OF DESIGNATION **(ANNEXURE)**

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Receiver Blocking ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.12 or 4.3.2.11 & 5.4.11.2	TEC ER No. TEC28982407
		Geo-location Capability ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.13, 4.3.2.12(Only for equipment with Geo-location Capability)	TEC ER No. TEC28982407
		Interface: NFC Frequency of Operation for NFC Interface ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2	TEC ER No. TEC28982407
		Permitted Range of Operating Frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC28982407
		Interface: Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	NFC	Transmitter H-Field Requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC28982407
			Transmitter RF Carrier Current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC28982407
			Transmitter Radiated E-Field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC28982407
			Transmitter Conducted Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.7	TEC ER No. TEC28982407
		Interface: NFC	Transmitter Radiated Spurious domain Emission Limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Transmitter Radiated Spurious domain Emission Limits>30MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.9	TEC ER No. TEC28982407
		Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC28982407
		Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC28982407
		Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC28982407
		Receiver Blocking or desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: RFID Frequency of Operation for RFID Int. ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2	TEC ER No. TEC28982407
		Permitted Range of Operating Frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC28982407
		Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC28982407
		Transmitter H-Field Requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC28982407
		Transmitter RF Carrier Current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC28982407
		Interface: RFID Transmitter Radiated E-field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Transmitter Conducted Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.7	TEC ER No. TEC28982407
		Transmitter Radiated Spurious domain Emission Limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC28982407
		Transmitter Radiated Spurious domain Emission Limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.9	TEC ER No. TEC28982407
		Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.10	TEC ER No. TEC28982407
		Interface: RFID Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC28982407
		Receiver Blocking or desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4	TEC ER No. TEC28982407
		Unwanted Emissions in the Spurious domain ETSI EN 300 220-1 V 3.1.1 Clause 5.9.3	TEC ER No. TEC28982407
		TX Maximum e.r.p Spectral density ETSI EN 300 220-1 V 3.1.1 Clause 5.3.2	TEC ER No. TEC28982407
		TX Duty Cycle ETSI EN 300 220-1 V 3.1.1 Clause 5.5.2	TEC ER No. TEC28982407
		Interface: RFID Occupied Bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC28982407

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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 N0. 174, Udyog Vihar, Phase-4, Sector-18,
Gurugram-122 016, Haryana

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

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	TX Out of Band Emissions ETSI EN 300 220-1 V 3.1.1 Clause 5.8.3	TEC ER No. TEC28982407
		Transient Power ETSI EN 300 220-1 V 3.1.1 Clause 5.10.3	TEC ER No. TEC28982407
		Adjacent Channel Power ETSI EN 300 220-1 V 3.1.1 Clause 5.11.3	TEC ER No. TEC28982407
		TX behaviour under low Voltage Conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC28982407
		Adaptive Power Control ETSI EN 300 220-1 V 3.1.1 Clause 5.13.3	TEC ER No. TEC28982407
		RX Sensitivity ETSI EN 300 220-1 V 3.1.1 Clause 5.14.3	TEC ER No. TEC28982407
	Interface: RFID	Polite Spectrum access ETSI EN 300 220-1 V 3.1.1 Clause 5.21.3.2	TEC ER No. TEC28982407

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SCOPE OF DESIGNATION
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Blocking ETSI EN 300 220-1 V 3.1.1 Clause 5.18.6	TEC ER No. TEC28982407
		Interface: Wi-Fi RF Output Power (EIRP) ETSI EN 300 328 V 2.2.2 (EIRP for Wi-Fi Interface) Clause No. 4.3.1.2 & 4.3.2.2, 5.3.2	TEC ER No. TEC28982407
		Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause 4.3.2 & 5.3.3	TEC ER No. TEC28982407
		Duty Cycle, Tx sequence, Tx-gap ETSI EN 300 328 V 2.2.2 Clause 4.3.1.3, 4.3.2.4 & 5.3.2	TEC ER No. TEC28982407
	Smart Watch	Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13, 4.3.2.12	TEC ER No. TEC28982407
		Accumulated Transmit Time, Frequency	TEC ER No. TEC28982407

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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,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Occupation and Hopping Sequence ETSI EN 300 328 V 2.2.2 Clause 4.3.1.4 & 5.3.4	
		Hopping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause 4.3.1.5 & 5.3.5	TEC ER No. TEC28982407
		Medium Utilization ETSI EN 300 328 V 2.2.2 Clause 4.3.1.6, 4.3.2.5 & 5.3.2	TEC ER No. TEC28982407
		Adaptivity ETSI EN 300 328 V 2.2.2 Clause 4.3.1.7 or 4.3.2.6 & 5.3.7	TEC ER No. TEC28982407
	Smart Watch	Interface: Wi-Fi Occupied Channel Bandwidth ETSI EN 300 328 V 2.2.2 Clause 4.3.1.8, 4.3.2.7 & 5.3.8	TEC ER No. TEC28982407
		Transmitter Unwanted emissions in OOB Domain ETSI EN 300 328 V 2.2.2	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Clause 4.3.1.9, 4.3.2.8 & 5.3.9	
		Transmitter Unwanted Emissions in the Spurious domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.10, 4.3.2.9 & 5.3.10	TEC ER No. TEC28982407
		Receiver Spurious Emission ETSI EN 300 328 V 2.2.2 Clause 4.3.1.11, 4.3.2.10 & 5.3.11	TEC ER No. TEC28982407
		Receiver Blocking ETSI EN 300 328 V 2.2.2 Clause 4.3.1.12, 4.3.2.11 & 5.3.7	TEC ER No. TEC28982407
	Smart Watch	Interface: Wi-Fi Carrier Frequencies ETSI EN 301 893 V 2.1.1 Clause 4.2.1	TEC ER No. TEC28982407
		Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V 2.1.1 Clause 4.2.2	TEC ER No. TEC28982407

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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
		RF Output Power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V 2.1.1 Clause 4.2.3	TEC ER No. TEC28982407
		Transmitter Unwanted Emissions Outside the 5 GHz RLAN bands ETSI EN 301 893 V 2.1.1 Clause 4.2.4.1	TEC ER No. TEC28982407
		Transmitter Unwanted Emissions within the 5 GHz RLAN bands ETSI EN 301 893 V 2.1.1 Clause 4.2.4.2	TEC ER No. TEC28982407
		Receiver Spurious Emission ETSI EN 301 893 V 2.1.1 Clause 4.2.5	TEC ER No. TEC28982407
		Geo Location Capability ETSI EN 301 893 V 2.1.1 Clause 4.2.10	TEC ER No. TEC28982407
		Dynamic Frequency Selection (DFS)	TEC ER No. TEC28982407
	Smart Watch	Interface: Wi-Fi	

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
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Gurugram-122 016, Haryana

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		ETSI EN 301 893 V 2.1.1 Clause 4.2.6.2	
		Adaptivity ETSI EN 301 893 V 2.1.1 Clause 4.2.7	TEC ER No. TEC28982407
		Receiver Blocking ETSI EN 301 893 V 2.1.1 Clause 4.2.8	TEC ER No. TEC28982407
		Designation of Centre Frequencies and Frequency Error ETSI 302 502 V 2.1.1 Clause 4.2.1	TEC ER No. TEC28982407
		Transmitter RF Output Power,EIRP and EIRP Spectral Density ETSI 302 502 V 2.1.1 Clause 4.2	TEC ER No. TEC28982407
		Transmitter Unwanted Emission ETSI 302 502 V 2.1.1 Clause 4.3, 5.4.4	TEC ER No. TEC28982407
		Transmitter Power Control ETSI 302 502 V 2.1.1 Clause 4.4	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Transmitter Power Control(TPC) ETSI 302 502 V 2.1.1 Clause 4.2.4	TEC ER No. TEC28982407
		Receiver Spurious Emissions ETSI 302 502 V 2.1.1 Clause 4.5	TEC ER No. TEC28982407
		Dynamic Frequency Selection (DFS) ETSI 302 502 V 2.1.1 Clause 4.6, 4.2.6, 5.4.6	TEC ER No. TEC28982407
		Frequency Error ETSI 302 502 v 2.1.1 Clause 5.4.2	TEC ER No. TEC28982407
		Receiver Blocking ETSI 302 502 v 2.1.1 Clause 4.2.7, 5.4.7	TEC ER No. TEC28982407
		Receiver Spurious Emission ETSI 302 502 v 2.1.1 Clause 4.2.5, 5.4.5	TEC ER No. TEC28982407
		Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI 302 502 v 2.1.1 Clause 4.2.2, 5.4.3	TEC ER No. TEC28982407
5	IoT Gateway	Interface: GSM/GPRS/ EDGE Transmitter Maximum Output Power for GSM 3GPP TS 51 010-1 Clause-	TEC ER No. TEC 24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		13.3 or EN 301 511 (GSM) Clause- 4.2.5	
		Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC 24492408
		Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC 24492408
		Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC 24492408
		Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 12.1.1 or EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC 24492408
		Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or	TEC ER No. TEC 24492408
	IoT Gateway	Interface: GSM/GPRS/ EDGE	

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
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Gurugram-122 016, Haryana

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		EN 301 511 (GSM) Clause-4.2.13	
		Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 (GSM) Clause-4.2.1	TEC ER No. TEC 24492408
		Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511(GSM) Clause-4.2.4	TEC ER No. TEC 24492408
		Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 (GSM) Clause-4.2.42	TEC ER No. TEC 24492408
		Adjacent channel rejection (Speech channels) 3GPP TS 51 010-1 Clause-14.5.1 or EN 301 511 (GSM) Clause-4.2.38	TEC ER No. TEC 24492408
		Receiver Blocking 3GPP TS 51 010-1 Clause-14.7.1 or EN 301 511 (GSM) Clause-4.2.20	TEC ER No. TEC 24492408
	IoT Gateway	Interface: GSM/GPRS/ EDGE	

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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-122 016, Haryana

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface : WCDMA or HSPA	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause-5.2 OR EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER TEC 24492408	No.
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause-5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER TEC 24492408	No.
		Interface : WCDMA or HSPA	Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause-5.11 OR EN 301 908-2 (UMTS) Clause- 4.2.4.1	TEC ER TEC 24492408	No.
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER TEC 24492408	No.
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER TEC 24492408	No.

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway		Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER TEC 24492408	No.
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause- 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER TEC 24492408	No.
			Receiver In-band blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER TEC 24492408	No.
		Interface: LTE or LTE-A	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 OR EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER TEC 24492408	No.
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause 6.6.2.1 OR EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER TEC 24492408	No.
			Spurious Emissions 3GPP TS 36.521-1 Clause- 6.6.3.1,6.6.3.2, 6.6.3.3 OR	TEC ER TEC 24492408	No.

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	EN 301 908-13 (LTE) Clause- 4.2.4.1	
		Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10.1	TEC ER No. TEC 24492408
		Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause- 7.3 OR EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC 24492408
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC 24492408
		Receiver In-band blocking 3GPP TS 36.521-1 Clause- 7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC 24492408
		Interface: BLE Frequency of Operation for BLE Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2	TEC ER No. TEC 24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		(2019-07)	
	IoT Gateway	Maximum Transmit Power for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492408
		EIRP for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492408
		Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC 24492408
		Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4, 4.3.2.4 & 5.4.2	TEC ER No. TEC 24492408
		Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4 & 5.4.4	TEC ER No. TEC 24492408
		Hopping Frequency Separation	TEC ER No. TEC 24492408
		Interface: BLE	

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6 or 4.3.2.5 & 5.4.5	
		Medium Utilization (MU) factor ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6, 4.3.2.5 & 5.4.2	TEC ER No. TEC 24492408
		Adaptivity ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.7 or 4.3.2.6 & 5.4.6	TEC ER No. TEC 24492408
		Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.8 or 4.3.2.7 & 5.4.7	TEC ER No. TEC 24492408
		Transmitter unwanted emission in the OOB domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.9 or 4.3.2.8 & 5.4.8	TEC ER No. TEC 24492408

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SCOPE OF DESIGNATION **(ANNEXURE)**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: BLE	Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.10 or 4.3.2.9 & 5.4.9	TEC TEC 24492408	ER No.
			Receiver Spurious emissions ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.11 or 4.3.2.10 & 5.4.10	TEC TEC 24492408	ER No.
			Receiver Blocking ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.12 or 4.3.2.11 & 5.4.11.2	TEC TEC 24492408	ER No.
			Geo-location capability ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.13, 4.3.2.12 (Only for equipment with geo-location capability)	TEC TEC 24492408	ER No.
		Interface: NFC	Frequency of Operation for NFC Interface ETSI EN 300 330 V2.1.1 (2017-02)	TEC TEC 24492408	ER No.

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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-122 016, Haryana

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

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Clause 6.2.2	
		Permitted range of operating frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC 24492408
		Modulation bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC 24492408
		Transmitter H-field requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 24492408
		Transmitter RF carrier current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC 24492408
		Transmitter radiated E-field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC 24492408
	IoT Gateway	Transmitter conducted spurious emissions ETSI EN 300 330 V2.1.1 (2017-02)	TEC ER No. TEC 24492408

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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
		Clause 4.3.7	
		Transmitter radiated spurious domain emission limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC 24492408
		Transmitter radiated spurious domain emission limits >30MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.9	TEC ER No. TEC 24492408
		Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 24492408
		Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC 24492408
		Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC 24492408
	IoT Gateway	Interface: NFC	

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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
	IoT Gateway	Receiver blocking or desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4	TEC ER No. TEC 24492408
		Interface: Wi-Fi RF Output Power (EIRP) ETSI EN 300 328 V 2.2.2 (EIRP for Wi-Fi Interface) Clause 4.3.1.2 & 4.3.2.2, 5.3.2	TEC ER No. TEC 24492408
		Interface: Wi-Fi Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause 4.3.2 & 5.3.3	TEC ER No. TEC 24492408
		Duty Cycle, Tx sequence, Tx-gap ETSI EN 300 328 V 2.2.2 Clause 4.3.1.3, 4.3.2.4 & 5.3.2	TEC ER No. TEC 24492408
		Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13, 4.3.2.12	TEC ER No. TEC 24492408

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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
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	IoT Gateway	Interface: Wi-Fi	Accumulated Transmit Time, Frequency Occupation and Hopping sequence ETSI EN 300 328 V 2.2.2 Clause 4.3.1.4 & 5.3.4	TEC ER TEC 24492408	No.
			Hopping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause 4.3.1.5 & 5.3.5	TEC ER TEC 24492408	No.
			Medium Utilization ETSI EN 300 328 V 2.2.2 Clause 4.3.1.6, 4.3.2.5 & 5.3.2	TEC ER TEC 24492408	No.
			Adaptivity ETSI EN 300 328 V 2.2.2 Clause 4.3.1.7 or 4.3.2.6 & 5.3.7	TEC ER TEC 24492408	No.
			Occupied Channel bandwidth ETSI EN 300 328 V 2.2.2 Clause 4.3.1.8, 4.3.2.7 & 5.3.8	TEC ER TEC 24492408	No.

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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
		Transmitter Unwanted emissions in OOB Domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.9,4.3.2.8 & 5.3.9	TEC ER No. TEC 24492408
		Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.10,4.3.2.9 & 5.3.10	TEC ER No. TEC 24492408
		Receiver Spurious Emission ETSI EN 300 328 V 2.2.2 Clause 4.3.1.11,4.3.2.10 & 5.3.11	TEC ER No. TEC 24492408
		Receiver Blocking ETSI EN 300 328 V2.2.2 Clause 4.3.1.12,4.3.2.11 & 5.3.7	TEC ER No. TEC 24492408
		Carrier Frequencies ETSI EN 301 893 V 2.1.1 Clause 4.2.1	TEC ER No. TEC 24492408
	IoT Gateway	Interface: Wi-Fi	

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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,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: Wi-Fi	Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V 2.1.1 Clause 4.2.2	TEC TEC 24492408	ER No.
			RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V 2.1.1 Clause 4.2.3	TEC TEC 24492408	ER No.
			Transmitter unwanted emissions outside the 5 GHz RLAN bands ETSI EN 301 893 V 2.1.1 Clause 4.2.4.1	TEC TEC 24492408	ER No.
			Transmitter unwanted emissions within the 5 GHz RLAN bands ETSI EN 301 893 V 2.1.1 Clause 4.2.4.2	TEC TEC 24492408	ER No.
			Receiver Spurious Emission ETSI EN 301 893 V 2.1.1	TEC TEC 24492408	ER No.

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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
		Clause 4.2.5	
		Geo Location Capability ETSI EN 301 893 v 2.1.1 Clause 4.2.10	TEC ER No. TEC 24492408
		Dynamic Frequency Selection(DFS) ETSI EN 301 893 V 2.1.1 Clause 4.2.6.2	TEC ER No. TEC 24492408
		Adaptivity ETSI EN 301 893 V 2.1.1 Clause 4.2.7	TEC ER No. TEC 24492408
		Receiver Blocking ETSI EN 301 893 V 2.1.1 Clause 4.2.8	TEC ER No. TEC 24492408
		Designation of Centre Frequencies and Frequency error ETSI 302 502 V 2.1.1 Clause 4.2.1	TEC ER No. TEC 24492408
		Transmitter RF output Power ,EIRP and EIRP Spectral Density ETSI 302 502 V 2.1.1 Clause 4.2	TEC ER No. TEC 24492408
	IoT Gateway	Interface: Wi-Fi	

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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
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IoT Gateway	Interface: Wi-Fi	Transmitter unwanted emission ETSI 302 502 V 2.1.1 Clause 4.3, 5.4.4	TEC ER TEC 24492408	No.
		Transmitter Power Control ETSI 302 502 V 2.1.1 Clause 4.4	TEC ER TEC 24492408	No.
		Transmitter Power Control(TPC) ETSI 302 502 V 2.1.1 Clause 4.2.4	TEC ER TEC 24492408	No.
		Receiver Spurious Emissions ETSI 302 502 V 2.1.1 Clause 4.5	TEC ER TEC 24492408	No.
		Dynamic Frequency Selection (DFS) ETSI 302 502 V 2.1.1 Clause 4.6, 4.2.6, 5.4.6	TEC ER TEC 24492408	No.
		Frequency Error ETSI 302 502 V 2.1.1 Clause 5.4.2	TEC ER TEC 24492408	No.
		Receiver Blocking ETSI 302 502 V 2.1.1 Clause 4.2.7, 5.4.7	TEC ER TEC 24492408	No.
		Receiver Spurious Emission ETSI 302 502 V 2.1.1 Clause 4.2.5, 5.4.5	TEC ER TEC 24492408	No.

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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-122 016, Haryana

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway		Transmitter RF Output Power, EIRP and EIRP Spectral Density ETSI 302 502 V 2.1.1 Clause 4.2.2, 5.4.3	TEC ER TEC 24492408	No.
		Interface: Zig Bee	Frequency of Operation for Zig Bee Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER TEC 24492408	No.
		Interface: Zig Bee	Maximum Transmit Power for Zig Bee Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER TEC 24492408	No.
			EIRP for Zig Bee Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER TEC 24492408	No.
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER TEC 24492408	No.
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4, 4.3.2.4 & 5.4.2	TEC ER TEC 24492408	No.

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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-122 016, Haryana

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: Zig Bee	Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4 & 5.4.4
			TEC ER No. TEC 24492408
			Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6 or 4.3.2.5 & 5.4.5
			TEC ER No. TEC 24492408
			Medium Utilization (MU) factor ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6, 4.3.2.5 & 5.4.2
	IoT Gateway		Adaptivity ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.7 or 4.3.2.6 & 5.4.6
			TEC ER No. TEC 24492408
		Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2	TEC ER No. TEC 24492408

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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		(2019-07) Clause 4.3.1.8 or 4.3.2.7 & 5.4.7	
		Interface: Zig Bee Transmitter unwanted emission in the OOB domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.9 or 4.3.2.8 & 5.4.8	TEC ER No. TEC 24492408
		Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.10 or 4.3.2.9 & 5.4.9	TEC ER No. TEC 24492408
		Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.11 or 4.3.2.10 & 5.4.10	TEC ER No. TEC 24492408
		Receiver Blocking ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.12 or 4.3.2.11 & 5.4.11.2	TEC ER No. TEC 24492408
		Geo-location capability ETSI EN 300 328 V2.2.2	TEC ER No. TEC 24492408
	IoT Gateway		

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway		(2019-07) Clause 4.3.1.13, 4.3.2.12(Only for equipment with geo-location capability)	
		Interface: 6 LoWPAN	Frequency of Operation for 6 LoWPAN Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER No. TEC 24492408
		Interface: 6 LoWPAN	Maximum Transmit Power for 6 LoWPAN Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492408
			EIRP for 6 LoWPAN Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492408
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC 24492408
			Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4, 4.3.2.4 & 5.4.2	TEC ER No. TEC 24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: 6 LoWPAN	
		Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4 & 5.4.4	TEC ER No. TEC 24492408
		Hopping Frequency Separation ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6 or 4.3.2.5 & 5.4.5	TEC ER No. TEC 24492408
		Medium Utilization (MU) factor ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.6, 4.3.2.5 & 5.4.2	TEC ER No. TEC 24492408
		Adaptivity ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.7 or 4.3.2.6 & 5.4.6	TEC ER No. TEC 24492408
		Occupied Channel Bandwidth ETSI EN 300 328 V2.2.2	TEC ER No. TEC 24492408

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	(2019-07) Clause 4.3.1.8 or 4.3.2.7 & 5.4.7	
		Transmitter unwanted emission in the OOB domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.9 or 4.3.2.8 & 5.4.8	TEC ER No. TEC 24492408
		Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.10 or 4.3.2.9 & 5.4.9	TEC ER No. TEC 24492408
		Receiver Spurious Emissions ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.11 or 4.3.2.10 & 5.4.10	TEC ER No. TEC 24492408
		Receiver Blocking ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.12 or 4.3.2.11 & 5.4.11.2	TEC ER No. TEC 24492408
		Geo-location capability ETSI EN 300 328 V2.2.2	TEC ER No. TEC 24492408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
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Gurugram-122 016, Haryana

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	(2019-07) Clause 4.3.1.13, 4.3.2.12 (Only for equipment with geo-location capability)	
		Interface: LPWAN-LoRa Frequency of Operation for LoRa Interface WPC GSR 564(E), ETSI EN 300 220-1 V 3.1.1	TEC ER No. TEC 24492408
		Interface: LPWAN-LoRa Maximum Transmit Power for LoRa Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492408
		EIRP for LoRa Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492408
		Unwanted emissions in the Spurious domain ETSI EN 300 220-1 V 3.1.1 Clause 5.9.3	TEC ER No. TEC 24492408
		TX Maximum e.r.p Spectral density ETSI EN 300 220-1 V 3.1.1 Clause 5.3.2	TEC ER No. TEC 24492408
		TX Duty Cycle ETSI EN 300 220-1	TEC ER No. TEC 24492408

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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-122 016, Haryana

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

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Validity: 05/04/2025 to 04/04/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN-LoRa	
		V 3.1.1 Clause 5.5.2	
		Occupied bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC 24492408
		TX out of Band Emissions ETSI EN 300 220-1 V 3.1.1 Clause 5.8.3	TEC ER No. TEC 24492408
		Transient power ETSI EN 300 220-1 V 3.1.1 Clause 5.10.3	TEC ER No. TEC 24492408
		Adjacent Channel Power ETSI EN 300 220-1 V 3.1.1 Clause 5.11.3	TEC ER No. TEC 24492408
		TX behaviour under low voltage conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC 24492408
		Adaptive Power Control ETSI EN 300 220-1 V 3.1.1 Clause 5.13.3	TEC ER No. TEC 24492408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
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Gurugram-122 016, Haryana

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

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Validity: 05/04/2025 to 04/04/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN-LoRa	
		RX Sensitivity ETSI EN 300 220-1 V 3.1.1 Clause 5.14.3	TEC ER No. TEC 24492408
		Polite Spectrum access ETSI EN 300 220-1 V 3.1.1 Clause 5.21.3.2	TEC ER No. TEC 24492408
		Blocking ETSI EN 300 220-1 V 3.1.1 Clause 5.18.6	TEC ER No. TEC 24492408
		Interface: LPWAN-SigFox	
		Frequency of Operation for SigFox Interface WPC GSR 564(E), ETSI EN 300 220-1 V 3.1.1	TEC ER No. TEC 24492408
		Maximum Transmit Power for SigFox Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492408
		EIRP for SigFox Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492408
		Unwanted Emissions in the Spurious domain ETSI EN 300 220-1 V 3.1.1	TEC ER No. TEC 24492408

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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-122 016, Haryana

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

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Validity: 05/04/2025 to 04/04/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Clause 5.9.3	
	Interface: LPWAN- SigFox	TX Maximum e.r.p Spectral density ETSI EN 300 220-1 V 3.1.1 Clause 5.3.2	TEC ER No. TEC 24492408
		TX Duty cycle ETSI EN 300 220-1 V 3.1.1 Clause 5.5.2	TEC ER No. TEC 24492408
		Occupied bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC 24492408
		TX out of band Emissions ETSI EN 300 220-1 V 3.1.1 Clause 5.8.3	TEC ER No. TEC 24492408
		Transient Power ETSI EN 300 220-1 V 3.1.1 Clause 5.10.3	TEC ER No. TEC 24492408
		Adjacent channel Power ETSI EN 300 220-1 V 3.1.1 Clause 5.11.3	TEC ER No. TEC 24492408

***The validity of Certificate is up to 04/04/2028 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-122 016, Haryana

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

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Validity: 05/04/2025 to 04/04/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		TX behaviour under low voltage conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC 24492408
		Adaptive Power Control ETSI EN 300 220-1 V 3.1.1 Clause 5.13.3	TEC ER No. TEC 24492408
		RX Sensitivity ETSI EN 300 220-1 V 3.1.1 Clause 5.14.3	TEC ER No. TEC 24492408
		Polite Spectrum access ETSI EN 300 220-1 V 3.1.1 Clause 5.21.3.2	TEC ER No. TEC 24492408
		Blocking ETSI EN 300 220-1 V 3.1.1 Clause 5.18.6	TEC ER No. TEC 24492408

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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-122 016, Haryana

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

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Validity: 05/04/2025 to 04/04/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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Digitally signed by
Rajeev Ranjan (CA), TEC
Date: 16-04-2025
17:29:57

***The validity of Certificate is up to 04/04/2028 or the continued validity of NABL Accreditation, whichever is earlier.**



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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, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016, Haryana

In the field of Testing

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

Issue Date: 09/08/2023

Validity: 10/08/2023 to 09/08/2026

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)

Signed for and on behalf of TEC

Signed by Vijay Dixit

Date: 09-08-2023 16:44:48

Reason: Approved

Vijay Dixit

Director (CA)

For Designating Authority

TEC

**Certificate No: TEC/MRA/CAB/IND-D/63 dated 09/08/2023 issued to
M/s AA Electro Magnetic Test Laboratory Private Limited,
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016**



Validity: - 10/08/2023 to 09/08/2026

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 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 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.

I/3119658/2023

9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence
 - a) Cessation of its business of conformity assessment for which it is Designated or accredited
 - b) Changes in its legal, commercial, or Organisational status
 - c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
 - d) Change of premises

B. REFERENCE TO DESIGNATION STATUS

1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

C. POST-DESIGNATION SURVEILLANCE

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

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

1. DA shall suspend or withdraw the designation of a CAB if
 - a. Its accreditation is withdrawn.
 - b. It is found that the CAB is not complying with the stipulated criteria or requirements.
 - c. It is guilty of any offence involving fraud or dishonesty.
 - d. DA concludes that there is a just cause for withdrawing the designation.
2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

E. AMENDMENT TO THE SCHEME

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: 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

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Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Information Technology Equipment-Safety Requirement	Power Interface (Clause 1.6)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Verification of Markings and instructions (Clause 1.7)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Protection from hazards (Clause 2.1)	IEC:60950-1: 2005+ A1:2009+A2:2013
		SELV Circuits (Clause 2.2)	IEC:60950-1: 2005+ A1:2009+A2:2013
		TNV Circuit (Clause 2.3)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Limited current circuit (Clause 2.4)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Limited Power sources (Clause 2.5)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Provisions for Earthing and bonding (Clause 2.6)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Over current and earth fault protection in primary circuits (Clause 2.7)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Safety Interlocks (Clause 2.8.1, 2.8.4, 2.8.6, 2.8.8)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Electrical Insulation (Clause 2.9)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Clearances and Creepage distances and distance through insulation (Clause 2.10)	IEC:60950-1: 2005+ A1:2009+A2:2013

***The validity of Certificate is up to 09/08/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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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-122016

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

Page 2 of 12

Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirement	Wiring, connections and supply (Clause 3.0, 3.1, 3.2, 3.3, 3.4, 3.5)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Stability (Clause 4.1)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Mechanical strength (impact, Drop, Stress relief) & Design and construction (Clause 4.2, 4.3)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Protection against hazardous moving parts (Clause 4.4)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Thermal Requirements (Clause 4.5)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Opening in enclosure (Clause 4.6)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Resistance to fire (Clause 4.7)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Touch current and protective conductor current (Clause 5.1)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Electric strength (Clause 5.2)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Abnormal operating and fault conditions (Clause 5.3)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Connection to telecommunication network (Clause 6.0)	IEC:60950-1: 2005+ A1:2009+A2:2013

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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-122016

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

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Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirement	Connection to cable distribution networks (Clause 7.0)	IEC:60950-1: 2005+ A1:2009+A2:2013
2.	Audio/video, information and communication technology Equipment-Safety Requirements	Electric Strength (Clause 5.4.9)	IEC-62368-1: 2018 (Ed.2.0)
		Equipment for direct insertion into mains socket-outlets (Clause 4.7)	IEC-62368-1: 2018 (Ed.2.0)
		Equipment having an Electro-mechanical device for destruction of media (Clause 8.5.4.2)	IEC-62368-1: 2018 (Ed.2.0)
		Equipment mounted to a wall or ceiling (Clause 8.7 to 8.12)	IEC-62368-1: 2018 (Ed.2.0)
		Glass slide test (Clause 8.6.4)	IEC-62368-1: 2018 (Ed.2.0)
		Handle strength method (Clause 8.8)	IEC-62368-1: 2018 (Ed.2.0)
		Horizontal force test (Clause 8.6.5)	IEC-62368-1: 2018 (Ed.2.0)
		Humidity Treatment (Clause 5.4.8)	IEC-62368-1: 2018 (Ed.2.0)
		Max operating temperatures for materials, component and systems (Clause 5.4.1.4, 9.2.5)	IEC-62368-1: 2018 (Ed.2.0)

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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

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Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/video, information and communication technology Equipment-Safety Requirements	Mechanical energy source classification (Clause 8.2)	IEC-62368-1: 2018 (Ed.2.0)
		Power source circuit classification (Clause 6.2.2)	IEC-62368-1: 2018 (Ed.2.0)
		Preventive touch voltage, touch current & protective conductor current (Clause 5.7)	IEC-62368-1: 2018 (Ed.2.0)
		Protection against energy sources (Clause 4.3)	IEC-62368-1: 2018 (Ed.2.0)
		Resistance of protective conductors and their terminations (Clause 5.6.4.1)	IEC-62368-1: 2018 (Ed.2.0)
		Safeguards against transient voltages from external circuits (Clause 5.4.10)	IEC-62368-1: 2018 (Ed.2.0)
		Separation between external circuit and earth (Clause 5.4.11)	IEC-62368-1: 2018 (Ed.2.0)
		Static stability for floor standing equipment (Clause 8.6.2)	IEC-62368-1: 2018 (Ed.2.0)
		Steady state voltage and current limits (Clause 5.2.2.2)	IEC-62368-1: 2018 (Ed.2.0)
		Top opening and top openings properties (Clause 6.4.8.3.3)	IEC-62368-1: 2018 (Ed.2.0)

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SCOPE OF DESIGNATION **(ANNEXURE)**

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

Page 5 of 12

Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
3.	EMI/EMC Testing for Telecom Equipment	Electrostatic discharge immunity test (IEC 61000-4-2:2008)	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated, radio-frequency electromagnetic field immunity test (IEC 61000-4-3 :2010)	TEC/SD/DD/ EMC-221/05/OCT-16
		Electrical fast transient/burst immunity test (IEC 61000-4-4: 2012)	TEC/SD/DD/ EMC-221/05/OCT-16
		Surge immunity test (IEC 61000-4-5: 2017)	TEC/SD/DD/ EMC-221/05/OCT-16
		Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013)	TEC/SD/DD/ EMC-221/05/OCT-16
		Voltage dips, short interruption and voltage variations immunity tests (IEC 61000-4-11:2017)	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 22	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated Emission CISPR 22	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 11	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated Emission CISPR 11	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 32	TEC/SD/DD/ EMC-221/05/OCT-16

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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

Page 6 of 12

Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	EMI/EMC Testing for Telecom Equipment	Radiated Emission CISPR 32	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 14-1	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated Emission CISPR 14-1	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 25	TEC/SD/DD/ EMC-221/05/OCT-16
		Electrostatic Discharge Immunity test ITU-T K.21	TEC/SD/DD/ EMC-221/05/OCT-16
		High Energy/Telecom Surge immunity test ITU-T K. 21	TEC/SD/DD/ EMC-221/05/OCT-16
		High Energy/ Telecom Surge immunity test ITU-T K. 44	TEC/SD/DD/ EMC-221/05/OCT-16
4.	Equipment operating in 2.4 GHz, 5Ghz, 5.8 GHz frequency bands	RF Power output, Transmit Power control (TPC), Power Density (Clause 4.2.3:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Adpativity (Clause 4.2.7:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Carrier frequencies (Clause 4.2.1:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Dynamic Frequency Selection(DFS) (Clause 4.2.6.2:2017)	ETSI EN 301 893 V2.1.1 (2017-05)

***The validity of Certificate is up to 09/08/2026 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

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

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Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment operating in 2.4 GHz, 5Ghz, 5.8 GHz frequency bands	Geo-location capability (Clause 4.2.10:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Nominal and occupied channel bandwidth (Clause 4.2.2:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Receiver Blocking (Clause 4.2.8:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Receiver spurious emission (Clause 4.2.5:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Transmitter unwanted emissions outside the 5GHz RLAN bands (Clause 4.2.4.1:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Transmitter unwanted emissions within the 5GHz RLAN bands (Clause 4.2.4.2:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
5.	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	Component (Clause 4.5)	IEC 62040-1: 2008
		Power Interface (Clause 4.6)	IEC 62040-1: 2008
		Marking & Instructions (Clause 4.7)	IEC 62040-1: 2008
		Protection Against Electric Shock and Hazards (Clause 5.1)	IEC 62040-1: 2008
		Requirements for Auxiliary Circuits (Clause 5.2)	IEC 62040-1: 2008

***The validity of Certificate is up to 09/08/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

GOVERNMENT OF INDIA
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TELECOMMUNICATION ENGINEERING CENTRE
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-122016

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

Page 8 of 12

Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	Protective Earthing and Bonding (Clause 5.3)	IEC 62040-1: 2008
		AC and DC Power isolation (Clause 5.4)	IEC 62040-1: 2008
		Over Current and Earth Fault Protection (Clause 5.5)	IEC 62040-1: 2008
		Protection of Personnel-Safety Interlocks (Clause 5.6)	IEC 62040-1: 2008
		Clearance, Creepage Distance and Distance Through Insulation (Clause 5.7)	IEC 62040-1: 2008
		Wiring connections and supply (Clause 6)	IEC 62040-1: 2008
		Connection to Power (Clause 6.2)	IEC 62040-1: 2008
		Wiring terminal for external power conductor (Clause 6.3)	IEC 62040-1: 2008
		Enclosure (Clause 7.1)	IEC 62040-1: 2008
		Stability (Clause 7.2)	IEC 62040-1: 2008
		Mechanical Strength (Clause 7.3)	IEC 62040-1: 2008

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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

Page 9 of 12

Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	Construction Details (Clause 7.4)	IEC 62040-1: 2008
		Resistance to Fire (Clause 7.5)	IEC 62040-1: 2008
		Battery Location (Clause 7.6)	IEC 62040-1: 2008
		Temperature Rise (Clause 7.7)	IEC 62040-1: 2008
		Electrical requirement and Simulated abnormal conditions (Clause 8)	IEC 62040-1: 2008
		Electric Strength (Clause 8.2)	IEC 62040-1: 2008
		Abnormal Operating and Fault Conditions (Clause 8.3)	IEC 62040-1: 2008
		Connection to Telecommunication Networks (Clause 9)	IEC 62040-1: 2008

Signed by Sanjay Bhardwaj

Date: 09-08-2023 16:56:24

Reason: Approved

AD (CA), TEC

***The validity of Certificate is up to 09/08/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

No. 1-72/2024-CA/TEC

Dated: 10.10.2024

To,
M/s AA Electro Magnetic Test Laboratory Private Limited,
Plot No. 174, Udyog Vihar, Phase-4,
Sector-18, Gurugram-122 016, Haryana.
Ph.: +91 8929173840,
E-Mail Id: info@aaemtlabs.com, dr.lenin@aaemtlabs.com

[Kind attention to Ms. Aishwarya Sharma, Quality Manager)]

Subject: Enhancement of Scope of CAB Designation of M/s AA Electro Magnetic Test Laboratory Private Limited, Gurugram.

Ref: 1. TEC CAB Designation Certificate no. TEC/MRA/CAB/IND-D/63 dated 09.08.2023
2. Your application for enhancement of Scope of CAB Designation vide Application no. SW5227011533 dated 26.12.2023 submitted on NSWS CAB Designation Portal.

This is in reference to your application for enhancement of Scope of CAB Designation of Certificate No. TEC/MRA/CAB/IND-D/63 dated 09.08.2023, valid upto 09.08.2026, submitted vide Application no. SW5227011533 dated 26.12.2023 in online mode on NSWS CAB Designation Portal.

2. In reference to the recommendations of Site visit assessment team, the scope of designation of CAB Certificate no. referred above is hereby enhanced in respect of test parameters of **“Base Station for Cellular Network for 5G”** and **“Router (For 5G NR FR1 Interface)”** as per detail mentioned in Annexure attached.

3. All other details, terms and conditions and validity of CAB Designation Certificate no. TEC/MRA/CAB/IND-D/63 dated 09.08.2023 shall remain unchanged.

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

Encl: as above

Copy to:

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

Signed by Sanjeev Kumar
Arya
(Sanjeev Kumar Arya)
Date: 10.10.2024 12:39:12
Director (CA), TEC

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TELECOMMUNICATION ENGINEERING CENTRE
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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-122 016, Haryana

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

Page 1 of 10

Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
1.	Base Station for Cellular Network for 5G	Base Station 5G- NR Type 1C	Adjacent Channel Leakage Power Ratio-5G NR 1C 3GPP TS 38.141-1 Clause- 6.6.3.5.3	TEC ER No. TEC42732304
			Adjacent Channel Selectivity- 5G NR 1C 3GPP TS 38.141-1 Clause- 7.4.1	TEC ER No. TEC42732304
			Base Station Output Power- 5G NR1C 3GPP TS 38.141-1 Clause- 6.2	TEC ER No. TEC42732304
			In-band Blocking- 5G NR 1C 3GPPTS 38.141-1 Clause- 7.4.2	TEC ER No. TEC42732304
			Operating Band Unwanted Emission- 5G NR 1C 3GPP TS 38.141-1 Clause-6.6.4.5.7	TEC ER No. TEC42732304
			Out-of -Band Blocking-5G NR 1-C 3GPP TS 38.141-1 Clause- 7.5	TEC ER No. TEC42732304
			Receiver Intermodulation-5G NR 1C 3GPP TS 38.141-1 Clause- 7.7	TEC ER No. TEC42732304
			Receiver Spurious Emissions-5G NR1C 3GPP TS 38.141-1 Clause-7.6.5.2	TEC ER No. TEC42732304

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SCOPE OF DESIGNATION
(ANNEXURE)

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 Gurugram-122 016, Haryana

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

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Validity: 10/10/2024 to 09/08/2026

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 5G- NR Type 1C	Reference Sensitivity Level-5G NR1C 3GPP TS 38.141-1 Clause- 7.2	TEC ER No. TEC42732304
			Transmitter Intermodulation-5G NR1C 3GPP TS 38.141-1 Clause- 6.7.5.1	TEC ER No. TEC42732304
			Transmitter Spurious Emissions- 5GNR 1-C 3GPP TS 38.141-1 Clause- 6.6.5.5.3	TEC ER No. TEC42732304
		Base Station 5G-NR Type 1H	Adjacent Channel Leakage Power Ratio-5GNR 1H 3GPP TS 38.141-1 Clause- 6.6.3.5.4	TEC ER No. TEC42732304
			Adjacent Channel Selectivity-5GNR1H 3GPP TS 38.141-1 Clause- 7.4.1	TEC ER No. TEC42732304
			Base Station Output Power-5G NR 1H 3GPP TS 38.141-1 Clause- 6.2	TEC ER No. TEC42732304
			In-Band Blocking- 5G NR 1H 3GPPTS 38.141-1 Clause- 7.4.2	TEC ER No. TEC42732304
			Operating Band Unwanted Emissions- 5G NR 1H 3GPP TS 38.141-1 Clause- 6.6.4.5.8	TEC ER No. TEC42732304

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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-122 016, Haryana

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

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Validity: 10/10/2024 to 09/08/2026

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 5G-NR Type 1H	Out-of-Band Blocking-5G NR 1H 3GPP TS 38.141-1 Clause- 7.5	TEC ER No. TEC42732304
			Receiver Intermodulation-5G NR 1H 3GPP TS 38.141-1 Clause- 7.7	TEC ER No. TEC42732304
			Receiver Spurious Emissions-5G NR1H 3GPP TS 38.141-1 Clause- 7.6.5.3	TEC ER No. TEC42732304
			Reference Sensitivity Level-5G NR1H 3GPP TS 38.141-1 Clause- 7.2	TEC ER No. TEC42732304
			Transmitter Intermodulation-5G NR1H 3GPP TS 38.141-1 Clause--6.7.5.2	TEC ER No. TEC42732304
			Transmitter Spurious Emissions- 5GNR 1H 3GPP TS 38.141-1 Clause- 6.6.5.5.4	TEC ER No. TEC42732304
		BTS with Multi Standard Radio Transmitter Parameters	Base Station Output Power 3GPP TS 37.141 Clause- 6.2, Annex-F4	TEC ER No. TEC42732304
			Transmitter Spurious Emissions 3GPP TS37.141 Clause-6.6.1, Annex-F4	TEC ER No. TEC42732304

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SCOPE OF DESIGNATION
(ANNEXURE)

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 Plot No. 174, Udyog Vihar, Phase-4, Sector-18,
 Gurugram-122 016, Haryana

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

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Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Base Station for Cellular Network for 5G	BTS with Multi Standard Radio Transmitter Parameters	Operating Band Unwanted Emissions 3GPP TS37.141 Clause-6.6.2, Annex-F4	TEC ER No. TEC42732304
			Adjacent Channel Leakage Power Ratio (ACLR) 3GPP TS37.141 Clause-6.6.4, Annex-F4	TEC ER No. TEC42732304
			Transmitter Intermodulation 3GPP TS37.141 Clause-6.7, Annex-F4	TEC ER No. TEC42732304
		BTS with Multi Standard Radio Receiver Parameters	Receiver Spurious Emissions 3GPP TS37.141 Clause-7.6, Annex-F4	TEC ER No. TEC42732304
			In-Band Selectivity and Blocking or In Band Blocking and Narrow Band Blocking 3GPP TS37.141 Clause-7.4, Annex-F4	TEC ER No. TEC42732304
			Out-of-Band Blocking 3GPP TS37.141 Clause-7.5, Annex-F4	TEC ER No. TEC42732304
			Receiver Intermodulation 3GPP TS37.141 Clause-7.7, Annex-F4	TEC ER No. TEC42732304

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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-122 016, Haryana

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

Page 5 of 10

Validity: 10/10/2024 to 09/08/2026

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 Receiver Parameters	Reference Sensitivity Level 3GPP TS37.141 Clause-7.2, Annex-F4	TEC ER No. TEC42732304
2.	Router	Interface: - 5G NR (FR 1)	Additional Spectrum Emission Mask for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.2.3	TEC ER No. TEC37682308
			Additional Spectrum Emission Mask Transmitter 3GPP TS 38.521-1 Clause- 6.5.2.3	TEC ER No. TEC37682308
			Additional Spurious Emissions 3GPP TS 38.521-1 Clause- 6.5.3.3	TEC ER No. TEC37682308
			Additional Spurious Emissions for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.3.3	TEC ER No. TEC37682308
			Adjacent Channel Selectivity 3GPP TS 38.521-1 Clause- 7.5	TEC ER No. TEC37682308
			Adjacent Channel Selectivity for 2DL CA 3GPP TS 38.521-1 Clause- 7.5A.1	TEC ER No. TEC37682308

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

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Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Router	Interface: - 5G NR (FR 1) Adjacent Channel Selectivity for UL-MIMO 3GPP TS 38.521-1 Clause- 7.5D	TEC ER No. TEC37682308
		General Spurious Emissions for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.3.1	TEC ER No. TEC37682308
		General Spurious Emissions Transmitter 3GPP TS 38.521-1 Clause- 6.5.3.1	TEC ER No. TEC37682308
		Inband Blocking 3GPP TS 38.521-1 Clause- 7.6.2	TEC ER No. TEC37682308
		In-Band Blocking for CA-2DL CA 3GPP TS 38.521-1 Clause- 7.6A.2.1	TEC ER No. TEC37682308
		Inband Blocking for UL-MIMO 3GPP TS 38.521-1 Clause- 7.6D.2	TEC ER No. TEC37682308
		Minimum Output Power 3GPP TS 38.521-2 Clause- 6.3.1	TEC ER No. TEC37682308
		Narrow Band Blocking 3GPP TS 38.521-1 Clause- 7.6.4	TEC ER No. TEC37682308

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

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Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	Interface: - 5G NR (FR 1)	Narrow Band Blocking for CA-2DL CA 3GPP TS 38.521-1 Clause- 7.6A.4.1	TEC ER No. TEC37682308
			Narrow Band Blocking for UL-MIMO 3GPP TS 38.521-1 Clause- 7.6D.4	TEC ER No. TEC37682308
			NR ACLR 3GPP TS 38.521-1 Clause- 6.5.2.4.1	TEC ER No. TEC37682308
			NR ACLR for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.2.4.1	TEC ER No. TEC37682308
			Out-of-Band Blocking 3GPP TS 38.521-1 Clause- 7.6.3	TEC ER No. TEC37682308
			Out-of-Band Blocking for UL-MIMO 3GPP TS 38.521-1 Clause- 7.6D.3	TEC ER No. TEC37682308
			Reference Sensitivity Power Level 3GPP TS 38.521-1 Clause- 7.3.2	TEC ER No. TEC37682308
			Reference Sensitivity Power Level for 2DL CA without Exception 3GPP TS 38.521-1 Clause- 7.3A.1	TEC ER No. TEC37682308

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Gurugram-122 016, Haryana

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

Page 8 of 10

Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Router	Interface: - 5G NR (FR 1)	Reference Sensitivity Power Level for ULMIMO 3GPP TS 38.521-1 Clause- 7.3D.2
			Spectrum Emission Mask-5G NR FR1 3GPP TS 38.521-1 Clause- 6.5.2.2
			Spectrum Emission Mask for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.2.2
			Spurious Emission for 2DL CA 3GPP TS 38.521-1 Clause- 7.9A.1
			Spurious Emission for UE Co-Existence 3GPP TS 38.521-1 Clause- 6.5.3.2
			Spurious Emission for UE Co-Existence for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.3.2
			Spurious Emissions-5G NR FR1 3GPP TS 38.521-1 Clause- 7.9
			Spurious Response 3GPP TS 38.521-1 Clause- 7.7

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**SCOPE OF DESIGNATION
(ANNEXURE)**

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

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Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router	Interface: - 5G NR (FR 1)	Spurious Response for 2DL CA 3GPP TS 38.521-1 Clause- 7.7A.1	TEC ER No. TEC37682308
			Spurious Response for UL-MIMO 3GPP TS 38.521-1 Clause- 7.7D	TEC ER No. TEC37682308
			UE Maximum Output Power 3GPP TS 38.521-1 Clause- 6.2.1	TEC ER No. TEC37682308
			UE Maximum Output Power for UL-MIMO 3GPP TS 38.521-1 Clause- 6.2D.1	TEC ER No. TEC37682308
			UE Maximum Output Power Reduction for UL MIMO 3GPP TS 38.521-1 Clause- 6.2D.2	TEC ER No. TEC37682308
			UTRA ACLR 3GPP TS 38.521-1 Clause- 6.5.2.4.2	TEC ER No. TEC37682308
			UTRA ACLR for UL MIMO 3GPP TS 38.521-1 Clause- 6.5D.2.4.2	TEC ER No. TEC37682308
			Wide Band Intermodulation 3GPP TS 38.521-1 Clause- 7.8.2	TEC ER No. TEC37682308

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Page 10 of 10

Validity: 10/10/2024 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	Interface: - 5G NR (FR 1)	Wide Band Intermodulation for CA- 2DL CA 3GPP TS 38.521-1 Clause- 7.8A.2.1	TEC ER No. TEC37682308
			Wide Band Intermodulation for UL- MIMO 3GPP TS 38.521-1 Clause- 7.8D.2	TEC ER No. TEC37682308

Signed by Sanjay Bhardwaj
Date: 10-10-2024 12:45:23
AB (CA), TEC

***The validity of Certificate is up to 09/08/2026 or the continued validity of NABL Accreditation, whichever is earlier.**