



सत्यमेव जयते



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

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

**In the field of Testing**

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

**Issue Date: 05/04/2022**

**Valid Until: 04/04/2025**

**This Certificate remains valid for the Scope of Designation as specified in the Annexure subject to the continued validity of NABL Accreditation and satisfied compliance to the Standards/specifications against which lab has been designated and strict compliance to the relevant terms and conditions of TEC CAB Designation Scheme.**

**(To see the scope of designation of this laboratory, you may also visit TEC website [www.tec.gov.in](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

**Prasanth Kumar  
Deputy Director General (MTCTE)  
For Designating Authority  
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/63-II dated 05/04/2022 issued to  
M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
Gurugram-122 016, Haryana**



**Validity: - 05/04/2022 to 04/04/2025**

### **Terms & Conditions**

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

#### **A. Obligations of the Designated CAB.**

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

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

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

**B. REFERENCE TO DESIGNATION STATUS**

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

**C. POST-DESIGNATION SURVEILLANCE**

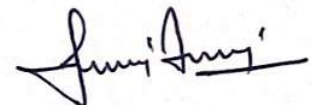
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

**D. SUSPENSION OR WITHDRAWAL OF DESIGNATION**

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

**E. AMENDMENT TO THE SCHEME**

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



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

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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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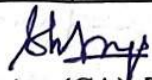
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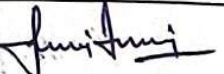
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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

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

  
Director (CA), TEC

  
AD (CA), TEC

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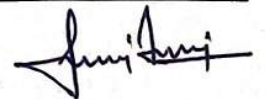
**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Equipment Operating in 2.4 GHz, 5 GHz frequency bands</b>	Transmitter Unwanted emissions in OOB Domain Clause- 4.3.1.9, 4.3.2.8 & 5.3.9	ETSI EN 300 328 V 2.2.2
		Transmitter unwanted emissions in the spurious domain Clause- 4.3.1.10, 4.3.2.9 & 5.3.10	ETSI EN 300 328 V 2.2.2
		Receiver Spurious Emission Clause 4.3.1.11, 4.3.2.10 & 5.3.11	ETSI EN 300 328 V 2.2.2
		Receiver Blocking Clause- 4.3.1.12, 4.3.2.11 & 5.3.7	ETSI EN 300 328 V 2.2.2
		Carrier Frequencies Clause- 4.2.1	ETSI EN 301 893 V2.1.1
		Nominal and Occupied Channel Bandwidth Clause- 4.2.2	ETSI EN 301 893 V2.1.1
		RF Output Power, Transmit Power Control (TPC), Power Density Clause- 4.2.3	ETSI EN 301 893 V2.1.1
		Transmitter unwanted Emissions outside the 5 GHz RLAN Bands Clause- 4.2.4.1	ETSI EN 301 893 V2.1.1



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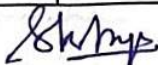
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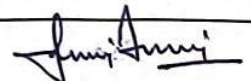
Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

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 within the 5 GHz RLAN Bands Clause- 4.2.4.2	ETSI EN 301 893 V2.1.1
		Receiver Spurious Emission Clause- 4.2.5	ETSI EN 301 893 V2.1.1
		Geo Location Capability Clause- 4.2.10	ETSI EN 301 893 V2.1.1
		Dynamic Frequency Selection (DFS) Clause- 4.2.6.2	ETSI EN 301 893 V2.1.1
		Adaptivity Clause- 4.2.7	ETSI EN 301 893 V2.1.1
		Receiver Blocking Clause- 4.2.8	ETSI EN 301 893 V2.1.1
		Designation of Centre Frequencies and Frequency error Clause- 4.2.1	ETSI EN 302 502 V2.1.1
		Transmitter RF Output Power, EIRP and EIRP Spectral Density Clause- 4.2.2, 5.4.3	ETSI EN 302 502 V2.1.1
		Transmitter Unwanted Emission Clause- 4.2.3, 5.4.4	ETSI EN 302 502 V2.1.1



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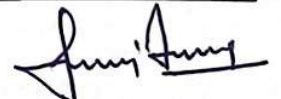
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Equipment Operating in 2.4 GHz, 5 GHz frequency bands</b>	Transmitter Power Control (TPC) Clause- 4.2.4	ETSI EN 302 502 v2.1.1
		Receiver Spurious Emission Clause- 4.2.5, 5.4.5	ETSI EN 302 502 v2.1.1
		Dynamic Frequency Selection (DFS) Clause- 4.2.6, 5.4.6	ETSI EN 302 502 v2.1.1
		Receiver Blocking Clause- 4.2.7, 5.4.7	ETSI EN 302 502 v2.1.1
		Frequency Error Clause- 5.4.2	ETSI EN 302 502 v2.1.1
2.	<b>EMI/EMC testing of Telecom Products</b>	Voltage Dips, short interruption and Voltage variations immunity Test on DC input power port immunity test	IEC 61000-4-29



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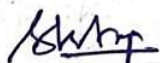
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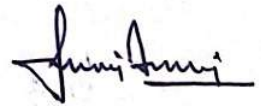
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**Validity:** 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
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 No. TEC47722105
			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 No. TEC47722105

  
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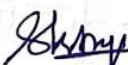
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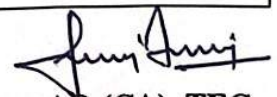
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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Parameters Linked with Product Variant	Mobile Emergency Support - GPS Location G.S.R. No. 1441 (E) TEC ER No. TEC47722105
			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. TEC47722105
		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 TEC ER No. TEC47722105

  
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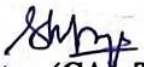
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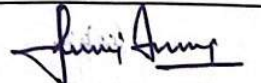
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**Validity:** 05/04/2022 to 04/04/2025

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: GSM/GPRS / EDGE	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. TEC47722105
		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. TEC47722105	
		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. TEC47722105	

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

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**Validity:** 05/04/2022 to 04/04/2025

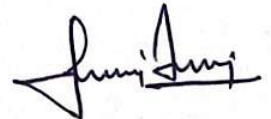
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: GSM/GPRS / EDGE	Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 12.1.1 or EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC47722105
			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. TEC47722105
			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. TEC47722105



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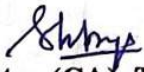
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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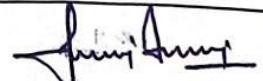
Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface: GSM/GPRS / EDGE 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. TEC47722105
		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. TEC47722105
		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. TEC47722105



Director (CA), TEC



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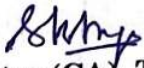
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	<b>Interface: GSM/GPRS / EDGE</b>	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC47722105
		<b>Interface : WCDMA or HSPA</b>	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. TEC47722105
			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. TEC47722105
			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. TEC47722105

  
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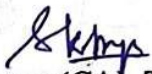
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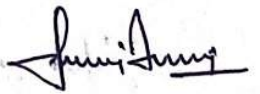
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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface : WCDMA or HSPA	Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 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
			Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13

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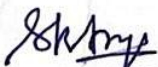
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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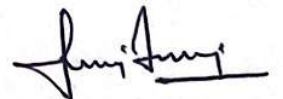
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : WCDMA or HSPA	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. TEC47722105
			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. TEC47722105
		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. TEC47722105



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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

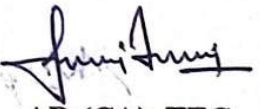
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_

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. TEC47722105
		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. TEC47722105	
		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. TEC47722105	

  
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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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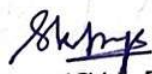
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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: LTE or LTE-A	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. TEC47722105
		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. TEC47722105	
		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. TEC47722105	

  
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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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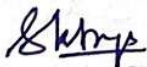
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**Validity:** 05/04/2022 to 04/04/2025

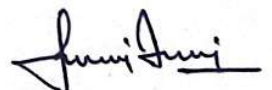
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	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. TEC47722105
		Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause 4.3.2 & 5.3.3	TEC ER No. TEC47722105	
		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. TEC47722105	



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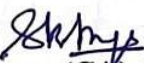
Certificate Number: TEC/MRA/CAB/IND-D/63-II


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13, 4.3.2.12	TEC ER No. TEC47722105
		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. TEC47722105	
		Hopping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause 4.3.1.5 & 5.3.5	TEC ER No. TEC47722105	

  
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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
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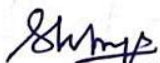
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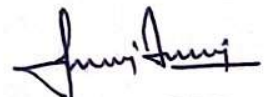
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	Medium Utilization ETSI EN 300 328 V 2.2.2 Clause 4.3.1.6, 4.3.2.5 & 5.3.2	TEC ER No. TEC47722105
		Adaptivity ETSI EN 300 328 V 2.2.2 Clause 4.3.1.7 or 4.3.2.6 & 5.3.7	TEC ER No. TEC47722105	
		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. TEC47722105	

  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	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. TEC47722105
		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. TEC47722105	
		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. TEC47722105	



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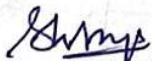
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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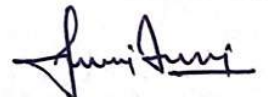
Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	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. TEC47722105
		Carrier Frequencies ETSI EN 301 893 V 2.1.1 Clause 4.2.1	TEC ER No. TEC47722105	
		Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V 2.1.1 Clause 4.2.2	TEC ER No. TEC47722105	
		RF Output Power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V 2.1.1 Clause 4.2.3	TEC ER No. TEC47722105	



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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	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. TEC47722105
		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. TEC47722105	
		Receiver Spurious Emission ETSI EN 301 893 V 2.1.1 Clause 4.2.5	TEC ER No. TEC47722105	

  
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Gurugram-122 016, Haryana

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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	Geo Location Capability ETSI EN 301 893 V 2.1.1 Clause 4.2.10	TEC ER No. TEC47722105
		Dynamic Frequency Selection (DFS) ETSI EN 301 893 V 2.1.1 Clause 4.2.6.2	TEC ER No. TEC47722105	
		Adaptivity ETSI EN 301 893 V 2.1.1 Clause 4.2.7	TEC ER No. TEC47722105	
		Receiver Blocking ETSI EN 301 893 V 2.1.1 Clause 4.2.8	TEC ER No. TEC47722105	

  
Director (CA), TEC

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

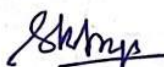
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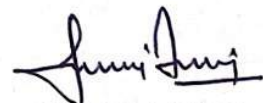
**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
4.	Smart Watch	<b>Interface:</b> 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	TEC ER No. TEC 28982106
			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 28982106
			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 28982106



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

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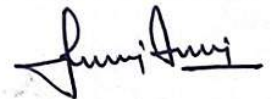
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> GSM/GPRS / EDGE	Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC 28982106
			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 28982106
			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. TEC 28982106



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**SCOPE OF DESIGNATION**  
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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
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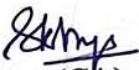
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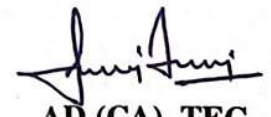
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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	<b>Interface:</b> GSM/GPRS / EDGE	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 28982106
			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 28982106
			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 28982106

  
Director (CA), TEC

  
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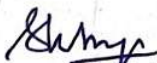
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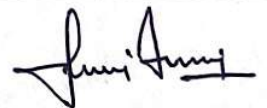
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: GSM/GPRS / EDGE	Adjacent Channel Rejection (Speech channels) 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC 28982106
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC 28982106
		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. TEC 28982106



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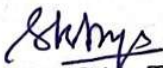
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Last Amended on: \_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	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. TEC 28982106
		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. TEC 28982106	
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC 28982106	



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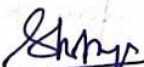
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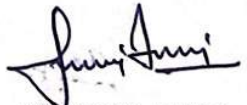
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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : WCDMA or HSPA	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. TEC 28982106
		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. TEC 28982106	
		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. TEC 28982106	

  
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**Validity:** 05/04/2022 to 04/04/2025

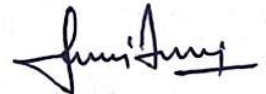
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface :</b> WCDMA or HSPA	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. TEC 28982106
		<b>Interface:</b> 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. TEC 28982106
			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. TEC 28982106



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**AD (CA), TEC**

**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: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: LTE or LTE-A	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. TEC 28982106
		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 28982106	
		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 28982106	

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

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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: 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. TEC 28982106
			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 28982106
		Interface: BLE	Frequency of Operation for BLE Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER No. TEC 28982106

  
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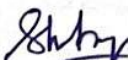
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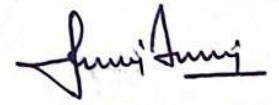
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: BLE	Maximum Transmit Power for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 28982106
		EIRP for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 28982106	
		Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC 28982106	
		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 28982106	

  
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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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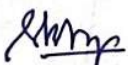
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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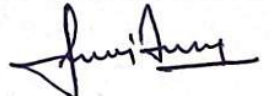
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: BLE	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 28982106
		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 28982106	
		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 28982106	

  
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Last Amended on: \_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	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. TEC 28982106
			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 28982106
			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 28982106

  
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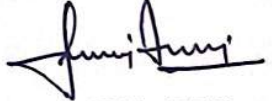
Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	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 ER No. TEC 28982106
		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 28982106	
		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 28982106	

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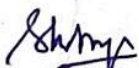
**Certificate Number:** TEC/MRA/CAB/IND-D/63-II

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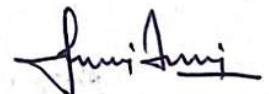
**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> BLE	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. TEC 28982106
		<b>Interface:</b> NFC	Frequency of Operation for NFC Interface ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2	TEC ER No. TEC 28982106
		Permitted Range of Operating Frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC 28982106	



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

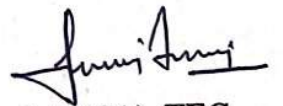
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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: NFC	Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC 28982106
		Transmitter H-Field Requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 28982106	
		Transmitter RF Carrier Current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC 28982106	
		Transmitter Radiated E- Field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC 28982106	

  
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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	
		Interface: NFC	Transmitter Conducted Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.7	TEC ER No. TEC 28982106
			Transmitter Radiated Spurious domain Emission Limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC 28982106
			Transmitter Radiated Spurious domain Emission Limits >30MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.9	TEC ER No. TEC 28982106



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Gurugram-122 016, Haryana

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

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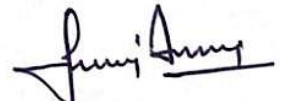
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Last Amended on: \_\_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: NFC	
		Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 28982106
		Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC 28982106
		Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC 28982106
		Receiver Blocking or desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4	TEC ER No. TEC 28982106

  
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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	<b>Interface: RFID</b>	
		Frequency of Operation for RFID Int. ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2	TEC ER No. TEC 28982106
		Permitted Range of Operating Frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC 28982106
		Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC 28982106
		Transmitter H-Field Requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 28982106

  
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**Validity:** 05/04/2022 to 04/04/2025

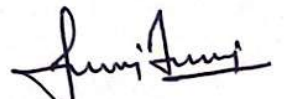
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: RFID	Transmitter RF Carrier Current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5
		Transmitter Radiated E-field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC 28982106
		Transmitter Conducted Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.7	TEC ER No. TEC 28982106
		Transmitter Radiated Spurious domain Emission Limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC 28982106



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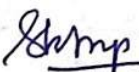
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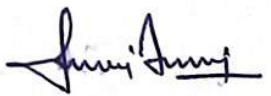
**Page 41 of 95**

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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> <b>RFID</b>	Transmitter Radiated Spurious domain Emission Limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.9	TEC ER No. TEC 28982106
		Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.10	TEC ER No. TEC 28982106	
		Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC 28982106	

  
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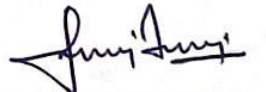
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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> <b>RFID</b>	Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC 28982106
		Receiver Blocking or desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4	TEC ER No. TEC 28982106	
		Unwanted Emissions in the Spurious domain ETSI EN 300 220-1 V 3.1.1 Clause 5.9.3	TEC ER No. TEC 28982106	
		TX Maximum e.r.p Spectral density ETSI EN 300 220-1 V 3.1.1 Clause 5.3.2	TEC ER No. TEC 28982106	

  
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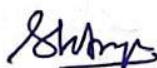
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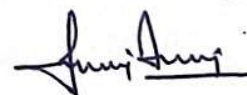
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: RFID	TX Duty Cycle ETSI EN 300 220-1 V 3.1.1 Clause 5.5.2	TEC ER No. TEC 28982106
		Occupied Bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC 28982106	
		TX Out of Band Emissions ETSI EN 300 220-1 V 3.1.1 Clause 5.8.3	TEC ER No. TEC 28982106	
		Transient Power ETSI EN 300 220-1 V 3.1.1 Clause 5.10.3	TEC ER No. TEC 28982106	



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**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: RFID	Adjacent Channel Power ETSI EN 300 220-1 V 3.1.1 Clause 5.11.3	TEC ER No. TEC 28982106
			TX behaviour under low Voltage Conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC 28982106
			Adaptive Power Control ETSI EN 300 220-1 V 3.1.1 Clause 5.13.3	TEC ER No. TEC 28982106
			RX Sensitivity ETSI EN 300 220-1 V 3.1.1 Clause 5.14.3	TEC ER No. TEC 28982106

  
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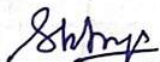
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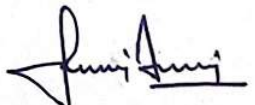
**Page 45 of 95**

**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface: RFID</b>	Polite Spectrum access ETSI EN 300 220-1 V 3.1.1 Clause 5.21.3.2	TEC ER No. TEC 28982106
			Blocking ETSI EN 300 220-1 V 3.1.1 Clause 5.18.6	TEC ER No. TEC 28982106
		<b>Interface: Wi-Fi</b>	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. TEC 28982106
			Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause 4.3.2 & 5.3.3	TEC ER No. TEC 28982106

  
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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

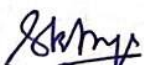
Certificate Number: TEC/MRA/CAB/IND-D/63-II


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Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	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 28982106
		Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13, 4.3.2.12	TEC ER No. TEC 28982106	
		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. TEC 28982106	

  
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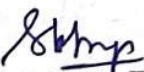
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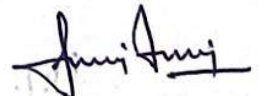
Page 47 of 95

Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	Hopping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause 4.3.1.5 & 5.3.5	TEC ER No. TEC 28982106
		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. TEC 28982106	
		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. TEC 28982106	
		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. TEC 28982106	

  
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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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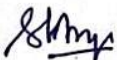
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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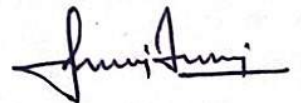
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	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 28982106
		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 28982106	
		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 28982106	



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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	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. TEC 28982106
		Carrier Frequencies ETSI EN 301 893 V 2.1.1 Clause 4.2.1	TEC ER No. TEC 28982106	
		Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V 2.1.1 Clause 4.2.2	TEC ER No. TEC 28982106	
		RF Output Power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V 2.1.1 Clause 4.2.3	TEC ER No. TEC 28982106	



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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-II

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**Validity:** 05/04/2022 to 04/04/2025

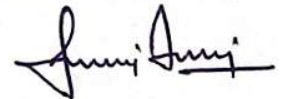
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> Wi-Fi	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. TEC 28982106
		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. TEC 28982106	
		Receiver Spurious Emission ETSI EN 301 893 V 2.1.1 Clause 4.2.5	TEC ER No. TEC 28982106	
		Geo Location Capability ETSI EN 301 893 V 2.1.1 Clause 4.2.10	TEC ER No. TEC 28982106	



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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

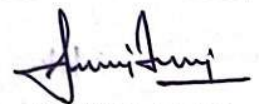
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	Dynamic Frequency Selection (DFS) ETSI EN 301 893 V 2.1.1 Clause 4.2.6.2	TEC ER No. TEC 28982106
		Adaptivity ETSI EN 301 893 V 2.1.1 Clause 4.2.7	TEC ER No. TEC 28982106	
		Receiver Blocking ETSI EN 301 893 V 2.1.1 Clause 4.2.8	TEC ER No. TEC 28982106	
		Designation of Centre Frequencies and Frequency Error ETSI 302 502 V 2.1.1 Clause 4.2.1	TEC ER No. TEC 28982106	

  
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**SCOPE OF DESIGNATION**  
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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
Gurugram-122 016, Haryana

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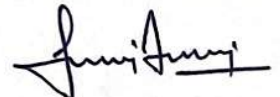
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> Wi-Fi	Transmitter RF Output Power,EIRP and EIRP Spectral Density ETSI 302 502 V 2.1.1 Clause 4.2	TEC ER No. TEC 28982106
		Transmitter Unwanted Emission ETSI 302 502 V 2.1.1 Clause 4.3, 5.4.4	TEC ER No. TEC 28982106	
		Transmitter Power Control ETSI 302 502 V 2.1.1 Clause 4.4	TEC ER No. TEC 28982106	
		Transmitter Power Control(TPC) ETSI 302 502 V 2.1.1 Clause 4.2.4	TEC ER No. TEC 28982106	
		Receiver Spurious Emissions ETSI 302 502 V 2.1.1 Clause 4.5	TEC ER No. TEC 28982106	



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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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Certificate Number: TEC/MRA/CAB/IND-D/63-II

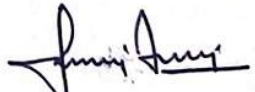
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: Wi-Fi	
		Dynamic Frequency Selection (DFS) ETSI 302 502 V 2.1.1 Clause 4.6, 4.2.6, 5.4.6	TEC ER No. TEC 28982106
		Frequency Error ETSI 302 502 v 2.1.1 Clause 5.4.2	TEC ER No. TEC 28982106
		Receiver Blocking ETSI 302 502 v 2.1.1 Clause 4.2.7, 5.4.7	TEC ER No. TEC 28982106
		Receiver Spurious Emission ETSI 302 502 v 2.1.1 Clause 4.2.5, 5.4.5	TEC ER No. TEC 28982106
		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. TEC 28982106

  
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**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:** 05/04/2022 to 04/04/2025

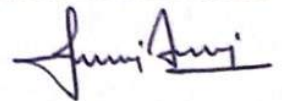
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
5	IoT Gateway	<b>Interface:</b> 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	TEC ER No. TEC 24492106
			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 24492106
			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 24492106



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**(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

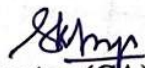
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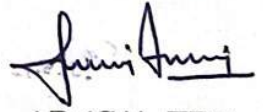
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	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. TEC 24492106
		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 24492106	
		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. TEC 24492106	

  
Director (CA), TEC

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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-II

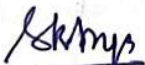
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**Validity:** 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

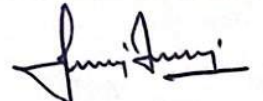
Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: GSM/GPRS / EDGE	Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC 24492106
			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 24492106
			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 24492106



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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
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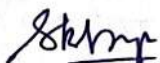
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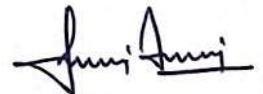
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	<b>Interface:</b> GSM/GPRS / EDGE	Adjacent channel rejection (Speech channels) 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 (GSM) Clause- 4.2.38
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 (GSM) Clause- 4.2.20
		<b>Interface :</b> 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



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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18,  
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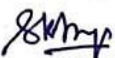
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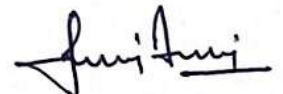
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	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. TEC 24492106
		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. TEC 24492106	
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC 24492106	

  
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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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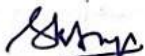
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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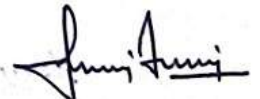
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface : WCDMA or HSPA	Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1
		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. TEC 24492106
		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. TEC 24492106



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : WCDMA or HSPA	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. TEC 24492106
		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. TEC 24492106
		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. TEC 24492106	

  
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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

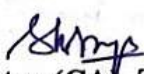
**Certificate Number:** TEC/MRA/CAB/IND-D/63-II

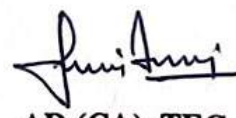
**Page 61 of 95**

**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LTE or LTE-A	Spurious Emissions 3GPP TS 36.521-1 Clause- 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. TEC 24492106
		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 24492106	
		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 24492106	

  
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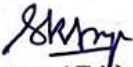
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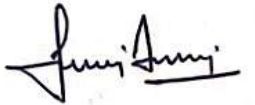
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 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. TEC 24492106
			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 24492106
		Interface: BLE	Frequency of Operation for BLE Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER No. TEC 24492106

  
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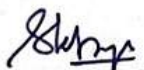
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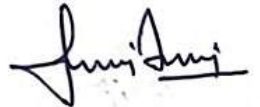
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: BLE	Maximum Transmit Power for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492106
		EIRP for BLE Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492106	
		Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC 24492106	
		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 24492106	

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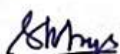
**Certificate Number:** TEC/MRA/CAB/IND-D/63-II

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**Validity:** 05/04/2022 to 04/04/2025

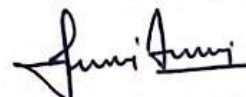
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	<b>Interface:</b> <b>BLE</b>	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 24492106
			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 24492106
			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 24492106



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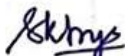
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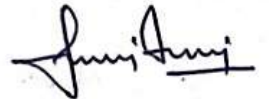
**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	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. TEC 24492106
		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 24492106
		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 24492106



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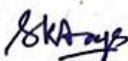
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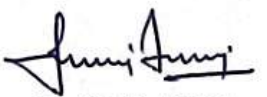
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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 ER No. TEC 24492106
		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 24492106	
		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 24492106	

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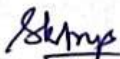
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: BLE	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. TEC 24492106
		Interface: NFC	Frequency of Operation for NFC Interface ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2	TEC ER No. TEC 24492106
			Permitted range of operating frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC 24492106
			Modulation bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC 24492106



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: NFC	Transmitter H-field requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 24492106
		Transmitter RF carrier current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC 24492106	
		Transmitter radiated E-field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC 24492106	
		Transmitter conducted spurious emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.7	TEC ER No. TEC 24492106	



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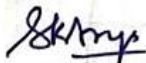
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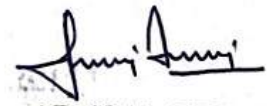
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: NFC	Transmitter radiated spurious domain emission limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC 24492106
			Transmitter radiated spurious domain emission limits >30MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.9	TEC ER No. TEC 24492106
			Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC 24492106



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Gurugram-122 016, Haryana

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

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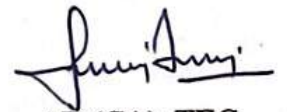
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: NFC	Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC 24492106
		Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC 24492106	
		Receiver blocking or desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4	TEC ER No. TEC 24492106	



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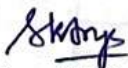
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Last Amended on: \_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	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 24492106
		Power Spectral Density (Conductive only) ETSI EN 300 328 V 2.2.2 Clause 4.3.2 & 5.3.3	TEC ER No. TEC 24492106	
		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 24492106	



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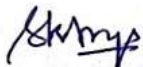
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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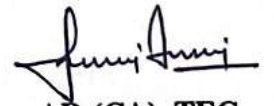
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13,4.3.2.12	TEC ER No. TEC 24492106
		Accumulated Transmit Time, Frequency Occupation and Hopping sequence ETSI EN 300 328 V 2.2.2 Clause 4.3.1.4&5.3.4	TEC ER No. TEC 24492106	
		Hoping Frequency Separation ETSI EN 300 328 V 2.2.2 Clause 4.3.1.5 & 5.3.5	TEC ER No. TEC 24492106	



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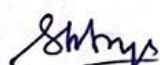
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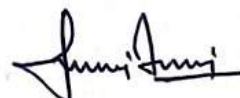
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	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. TEC 24492106
		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. TEC 24492106	
		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. TEC 24492106	

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

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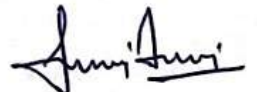
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	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 24492106
		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 24492106	
		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 24492106	



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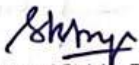
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Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	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 24492106
		Carrier Frequencies ETSI EN 301 893 V 2.1.1 Clause 4.2.1	TEC ER No. TEC 24492106	
		Nominal and Occupied Channel Bandwidth ETSI EN 301 893 V 2.1.1 Clause 4.2.2	TEC ER No. TEC 24492106	
		RF output power, Transmit Power Control (TPC), Power Density ETSI EN 301 893 V 2.1.1 Clause 4.2.3	TEC ER No. TEC 24492106	

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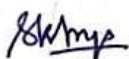
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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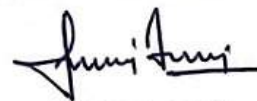
Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	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. TEC 24492106
		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. TEC 24492106	
		Receiver Spurious Emission ETSI EN 301 893 V 2.1.1 Clause 4.2.5	TEC ER No. TEC 24492106	
		Geo Location Capability ETSI EN 301 893 v 2.1.1 Clause 4.2.10	TEC ER No. TEC 24492106	



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**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

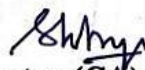
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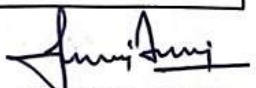
**Page 77 of 95**

**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	Dynamic Frequency Selection(DFS) ETSI EN 301 893 V 2.1.1 Clause 4.2.6.2	TEC ER No. TEC 24492106
		Adaptivity ETSI EN 301 893 V 2.1.1 Clause 4.2.7	TEC ER No. TEC 24492106	
		Receiver Blocking ETSI EN 301 893 V 2.1.1 Clause 4.2.8	TEC ER No. TEC 24492106	
		Designation of Centre Frequencies and Frequency error ETSI 302 502 V 2.1.1 Clause 4.2.1	TEC ER No. TEC 24492106	
		Transmitter RF output Power ,EIRP and EIRP Spectral Density ETSI 302 502 V 2.1.1 Clause 4.2	TEC ER No. TEC 24492106	

  
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**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
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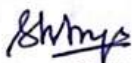
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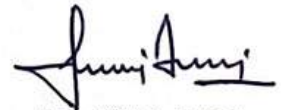
**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	<b>Interface:</b> Wi-Fi	Transmitter unwanted emission ETSI 302 502 V 2.1.1 Clause 4.3, 5.4.4	TEC ER No. TEC 24492106
		Transmitter Power Control ETSI 302 502 V 2.1.1 Clause 4.4	TEC ER No. TEC 24492106	
		Transmitter Power Control(TPC) ETSI 302 502 V 2.1.1 Clause 4.2.4	TEC ER No. TEC 24492106	
		Receiver Spurious Emissions ETSI 302 502 V 2.1.1 Clause 4.5	TEC ER No. TEC 24492106	
		Dynamic Frequency Selection (DFS) ETSI 302 502 V 2.1.1 Clause 4.6, 4.2.6, 5.4.6	TEC ER No. TEC 24492106	



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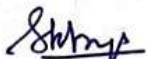
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**Validity:** 05/04/2022 to 04/04/2025

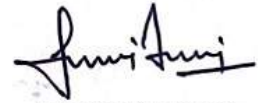
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	<b>Interface:</b> <b>Wi-Fi</b>	Frequency Error ETSI 302 502 V 2.1.1 Clause 5.4.2	TEC ER No. TEC 24492106
			Receiver Blocking ETSI 302 502 V 2.1.1 Clause 4.2.7, 5.4.7	TEC ER No. TEC 24492106
			Receiver Spurious Emission ETSI 302 502 V 2.1.1 Clause 4.2.5, 5.4.5	TEC ER No. TEC 24492106
			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. TEC 24492106
		<b>Interface:</b> <b>Zig Bee</b>	Frequency of Operation for Zig Bee Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER No. TEC 24492106



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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited  
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,  
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Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Validity: 05/04/2022 to 04/04/2025

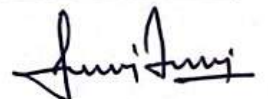
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	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 No. TEC 24492106
		EIRP for Zig Bee Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492106	
		Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC 24492106	
		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 24492106	



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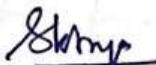
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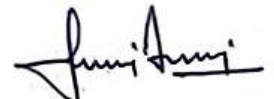
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Last Amended on: \_\_\_\_

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 24492106
		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 24492106	
		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 24492106	



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**(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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**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Zig Bee	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 24492106
		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 24492106
		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 24492106



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**SCOPE OF DESIGNATION**  
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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

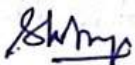
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Validity: 05/04/2022 to 04/04/2025

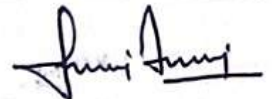
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: Zig Bee	Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.10 or 4.3.2.9 & 5.4.9	TEC ER No. TEC 24492106
			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 24492106
			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 24492106



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

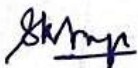
**Certificate Number:** TEC/MRA/CAB/IND-D/63-II

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**Validity:** 05/04/2022 to 04/04/2025

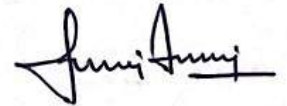
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	<b>Interface:</b> Zig Bee	Geo-location capability ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.13, 4.3.2.12(Only for equipment with geo- location capability)	TEC ER No. TEC 24492106
		<b>Interface:</b> 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 24492106
			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 24492106



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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:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 6 LoWPAN	EIRP for 6 LoWPAN Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492106
			Power Spectral Density ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.2.3 & 5.4.3	TEC ER No. TEC 24492106
			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 24492106
			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 24492106



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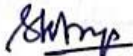
**Certificate Number:** TEC/MRA/CAB/IND-D/63-II

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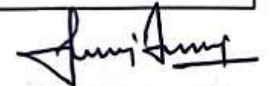
**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: 6 LoWPAN	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 24492106
		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 24492106	
		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 24492106	
		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 24492106	



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

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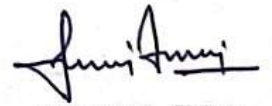
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 6 LoWPAN	Transmitter unwanted emission in the OOB domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.9 or 4.3.2.8 & 5.4.8	TEC ER No. TEC 24492106
			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 24492106
			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 24492106



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## SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited  
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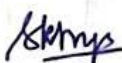
**Certificate Number:** TEC/MRA/CAB/IND-D/63-II

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**Validity:** 05/04/2022 to 04/04/2025

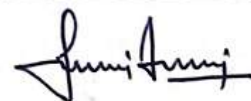
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	<b>Interface: 6 LoWPAN</b>	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 24492106
			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. TEC 24492106
		<b>Interface: LPWAN- LoRa</b>	Frequency of Operation for LoRa Interface WPC GSR 564(E), ETSI EN 300 220-1 V 3.1.1	TEC ER No. TEC 24492106
			Maximum Transmit Power for LoRa Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492106



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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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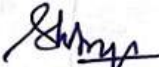
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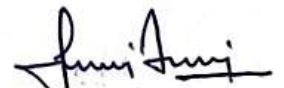
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LPWAN- LoRa	EIRP for LoRa Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492106
		Unwanted emissions in the Spurious domain ETSI EN 300 220-1 V 3.1.1 Clause 5.9.3	TEC ER No. TEC 24492106	
		TX Maximum e.r.p Spectral density ETSI EN 300 220-1 V 3.1.1 Clause 5.3.2	TEC ER No. TEC 24492106	
		TX Duty Cycle ETSI EN 300 220-1 V 3.1.1 Clause 5.5.2	TEC ER No. TEC 24492106	



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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited  
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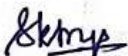
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Validity: 05/04/2022 to 04/04/2025

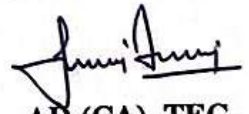
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LPWAN- LoRa	Occupied bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC 24492106
		TX out of Band Emissions ETSI EN 300 220-1 V 3.1.1 Clause 5.8.3	TEC ER No. TEC 24492106	
		Transient power ETSI EN 300 220-1 V 3.1.1 Clause 5.10.3	TEC ER No. TEC 24492106	
		Adjacent Channel Power ETSI EN 300 220-1 V 3.1.1 Clause 5.11.3	TEC ER No. TEC 24492106	



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AD (CA), TEC

**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

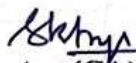
Certificate Number: TEC/MRA/CAB/IND-D/63-II

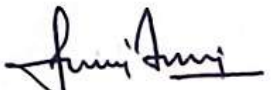
Page 91 of 95

Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN- LoRa	
		TX behaviour under low voltage conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC 24492106
		Adaptive Power Control ETSI EN 300 220-1 V 3.1.1 Clause 5.13.3	TEC ER No. TEC 24492106
		RX Sensitivity ETSI EN 300 220-1 V 3.1.1 Clause 5.14.3	TEC ER No. TEC 24492106
		Polite Spectrum access ETSI EN 300 220-1 V 3.1.1 Clause 5.21.3.2	TEC ER No. TEC 24492106
		Blocking ETSI EN 300 220-1 V 3.1.1 Clause 5.18.6	TEC ER No. TEC 24492106

  
Director (CA), TEC

  
AD (CA), TEC

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

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

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

**Page 92 of 95**

**Validity:** 05/04/2022 to 04/04/2025

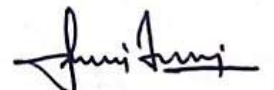
**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	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 24492106
			Maximum Transmit Power for SigFox Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492106
			EIRP for SigFox Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492106
			Unwanted Emissions in the Spurious domain ETSI EN 300 220-1 V 3.1.1 Clause 5.9.3	TEC ER No. TEC 24492106



**Director (CA), TEC**



**AD (CA), TEC**

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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-II

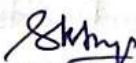
**Page 93 of 95**


**Validity:** 05/04/2022 to 04/04/2025

**Last Amended on:** \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	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 24492106
			TX Duty cycle ETSI EN 300 220-1 V 3.1.1 Clause 5.5.2	TEC ER No. TEC 24492106
			Occupied bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC 24492106
			TX out of band Emissions ETSI EN 300 220-1 V 3.1.1 Clause 5.8.3	TEC ER No. TEC 24492106
			Transient Power ETSI EN 300 220-1 V 3.1.1 Clause 5.10.3	TEC ER No. TEC 24492106

  
Director (CA), TEC

  
AD (CA), TEC

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**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

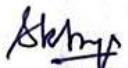
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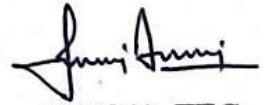
Page 94 of 95

Validity: 05/04/2022 to 04/04/2025

Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LPWAN- SigFox	Adjacent channel Power ETSI EN 300 220-1 V 3.1.1 Clause 5.11.3	TEC ER No. TEC 24492106
			TX behaviour under low voltage conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC 24492106
			Adaptive Power Control ETSI EN 300 220-1 V 3.1.1 Clause 5.13.3	TEC ER No. TEC 24492106
			RX Sensitivity ETSI EN 300 220-1 V 3.1.1 Clause 5.14.3	TEC ER No. TEC 24492106

  
Director (CA), TEC

  
AD (CA), TEC

\*The validity of Certificate is up to 04/04/2025 or the continued validity of NABL Accreditation, whichever is earlier.

**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

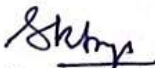
Certificate Number: TEC/MRA/CAB/IND-D/63-II

Page 95 of 95

Validity: 05/04/2022 to 04/04/2025

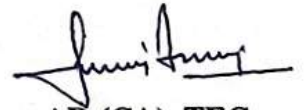
Last Amended on: \_\_\_\_

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN- SigFox	Polite Spectrum access ETSI EN 300 220-1 V 3.1.1 Clause 5.21.3.2
		Blocking ETSI EN 300 220-1 V 3.1.1 Clause 5.18.6	TEC ER No. TEC 24492106



Director (CA), TEC

\*The validity of Certificate is up to 04/04/2025 or the continued validity of NABL Accreditation, whichever is earlier.



AD (CA), TEC



**GOVERNMENT OF INDIA  
MINISTRY OF COMMUNICATIONS  
DEPARTMENT OF TELECOMMUNICATIONS  
TELECOMMUNICATION ENGINEERING CENTRE  
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001**

## **CERTIFICATE OF DESIGNATION**

**M/s AA Electro Magnetic Test Laboratory Private Limited,  
Gurugram**

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

**Plot NO. 174, 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](http://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.

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

## **B. REFERENCE TO DESIGNATION STATUS**

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

## **C. POST-DESIGNATION SURVEILLANCE**

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

## **D. SUSPENSION OR WITHDRAWAL OF DESIGNATION**

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

## **E. AMENDMENT TO THE SCHEME**

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

## SCOPE OF DESIGNATION

### (ANNEXURE)

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

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

**Page 1 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
<b>1.</b>	<b>Information Technology Equipment-Safety Requirement</b>	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.**

## 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
	<b>Information Technology Equipment-Safety Requirement</b>	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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## 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 3 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
	<b>Information Technology Equipment-Safety Requirement</b>	Connection to cable distribution networks (Clause 7.0)	IEC:60950-1: 2005+A1:2009+A2:2013
<b>2.</b>	<b>Audio/video, information and communication technology Equipment-Safety Requirements</b>	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**

**Page 4 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
	<b>Audio/video, information and communication technology Equipment-Safety Requirements</b>	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)

**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 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
<b>3.</b>	<b>EMI/EMC Testing for Telecom Equipment</b>	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,  
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**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
	<b>EMI/EMC Testing for Telecom Equipment</b>	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
<b>4.</b>	<b>Equipment operating in 2.4 GHz, 5Ghz, 5.8 GHz frequency bands</b>	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)

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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 7 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
	<b>Equipment operating in 2.4 GHz, 5GHz, 5.8 GHz frequency bands</b>	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)
<b>5. Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS</b>	<b>Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS</b>	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.**

## 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-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
	<b>Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS</b>	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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**Validity: 10/08/2023 to 09/08/2026**

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

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS</b>	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**

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