



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)

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.

A handwritten signature in black ink, appearing to be 'S. K. Singh'.

A handwritten signature in black ink, appearing to be 'J. Singh'.

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

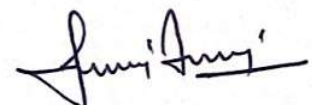
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

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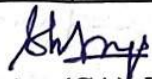
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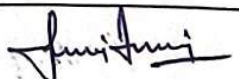
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Equipment Operating in 2.4 GHz, 5 GHz frequency bands	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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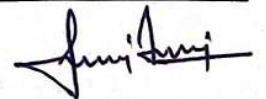
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Last Amended on: ____

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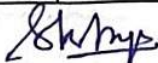
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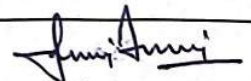
Validity: 05/04/2022 to 04/04/2025

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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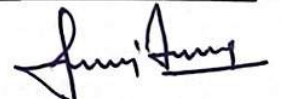
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment Operating in 2.4 GHz, 5 GHz frequency bands	Transmitter Power Control (TPC) Clause- 4.2.4	ETSI EN 302 502 v2.1.1
		Receiver Spurious Emission Clause- 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.	EMI/EMC testing of Telecom Products	Voltage Dips, short interruption and Voltage variations immunity Test on DC input power port immunity test	IEC 61000-4-29



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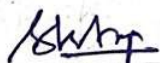
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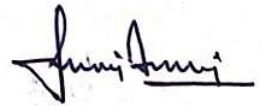
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
3.	Mobile User Equipment	Parameters Linked with Product Variant	Mobile Device Indian Language Support IS 16333 (Part 3) Inputting of Text Clause 5/5.1 Marking 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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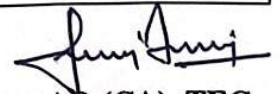
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Validity: 05/04/2022 to 04/04/2025

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	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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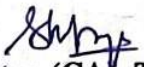
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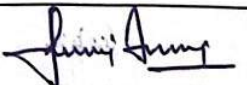
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: GSM/GPRS / EDGE	Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 (GSM) Clause- 4.2.10	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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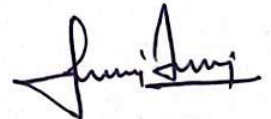
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: GSM/GPRS / EDGE	Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 12.1.1 or EN 301 511 (GSM) Clause- 4.2.12	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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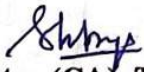
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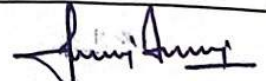
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface: GSM/GPRS / EDGE Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511(GSM) Clause- 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



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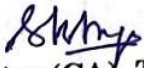
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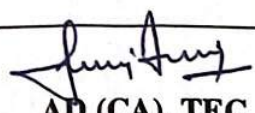
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Validity: 05/04/2022 to 04/04/2025

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: GSM/GPRS / EDGE	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC47722105
		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. 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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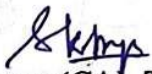
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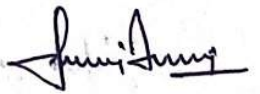
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : WCDMA or HSPA	Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC47722105
		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. TEC47722105	
		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. TEC47722105	


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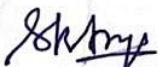
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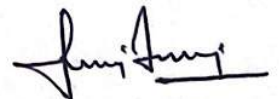
Last Amended on: ____

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

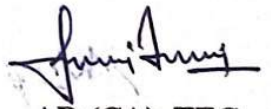
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Validity: 05/04/2022 to 04/04/2025

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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(ANNEXURE)

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

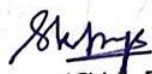
Certificate Number: TEC/MRA/CAB/IND-D/63-II


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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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SCOPE OF DESIGNATION
(ANNEXURE)

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

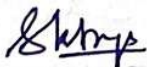
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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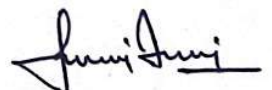
Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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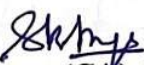
Certificate Number: TEC/MRA/CAB/IND-D/63-II


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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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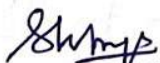
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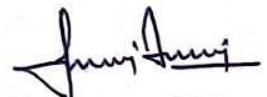
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface: Wi-Fi	Medium Utilization ETSI EN 300 328 V 2.2.2 Clause 4.3.1.6, 4.3.2.5 & 5.3.2	TEC ER No. TEC47722105
		Adaptivity ETSI 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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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 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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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
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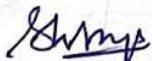
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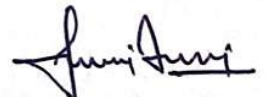
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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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	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	


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SCOPE OF DESIGNATION
(ANNEXURE)

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

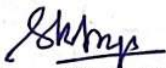
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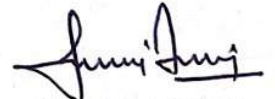
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
4.	Smart Watch	Interface: GSM/GPRS / EDGE	Transmitter Maximum Output Power for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 (GSM) Clause- 4.2.5	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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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

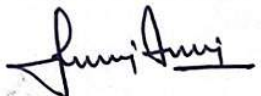
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

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

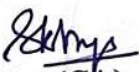
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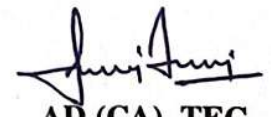
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: GSM/GPRS / EDGE	Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 (GSM) Clause- 4.2.1 TEC ER No. TEC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


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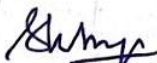
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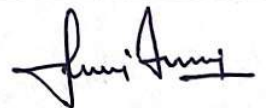
Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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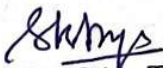
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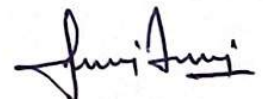
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : WCDMA or HSPA	Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC 28982106
		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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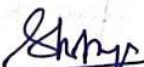
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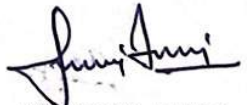
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : WCDMA or HSPA	Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC 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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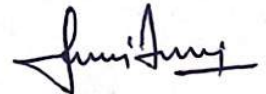
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : WCDMA or HSPA	Receiver In-band blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC 28982106
		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 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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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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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	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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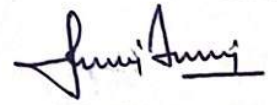
Validity: 05/04/2022 to 04/04/2025

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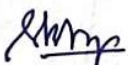
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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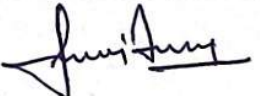
Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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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	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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Certificate Number: TEC/MRA/CAB/IND-D/63-II

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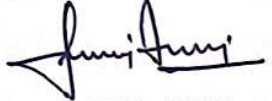
Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: 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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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	
	Smart Watch	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 28982106
		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 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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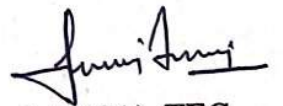
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Validity: 05/04/2022 to 04/04/2025

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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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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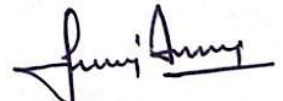
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Last Amended on: _____

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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Gurugram-122 016, Haryana

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

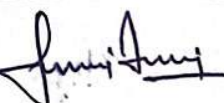
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

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

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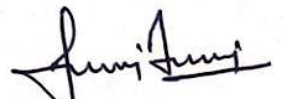
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: RFID	Transmitter RF Carrier Current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC 28982106
		Transmitter Radiated E-field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC 28982106	
		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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SCOPE OF DESIGNATION
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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
Gurugram-122 016, Haryana

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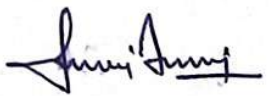
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: RFID	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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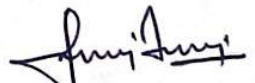
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: RFID	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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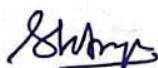
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: 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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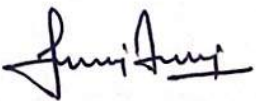
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: 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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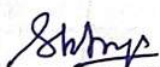
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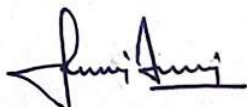
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: RFID	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
		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. 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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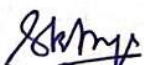
Certificate Number: TEC/MRA/CAB/IND-D/63-II


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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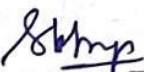
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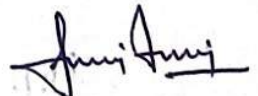
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

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

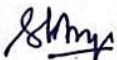
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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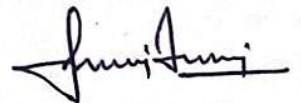
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	Transmitter Unwanted emissions in OOB Domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.9, 4.3.2.8 & 5.3.9	TEC ER No. TEC 28982106
		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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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	
	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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Gurugram-122 016, Haryana

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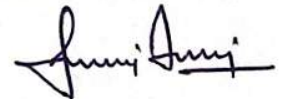
Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	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 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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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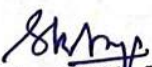
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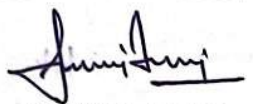
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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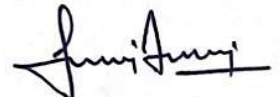
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: Wi-Fi	
		Transmitter RF Output Power,EIRP and EIRP Spectral Density ETSI 302 502 V 2.1.1 Clause 4.2	TEC ER No. TEC 28982106
		Transmitter 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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SCOPE OF DESIGNATION
(ANNEXURE)

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Gurugram-122 016, Haryana

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

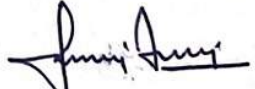
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: Wi-Fi	
		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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SCOPE OF DESIGNATION
(ANNEXURE)

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

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

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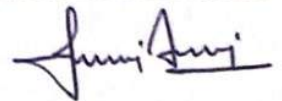
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
5	IoT Gateway	Interface: GSM/GPRS / EDGE	Transmitter Maximum Output Power for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. 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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SCOPE OF DESIGNATION
(ANNEXURE)

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

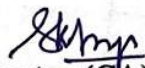
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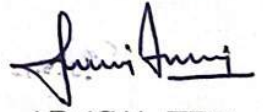
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Last Amended on: ____

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


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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

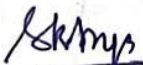
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

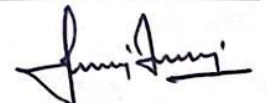
Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: GSM/GPRS / EDGE	Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC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

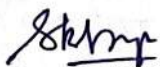
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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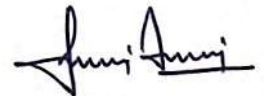
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: GSM/GPRS / EDGE	Adjacent channel rejection (Speech channels) 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 (GSM) Clause- 4.2.38
			Receiver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



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SCOPE OF DESIGNATION
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Plot No. 174, Udyog Vihar, Phase-4, Sector-18,
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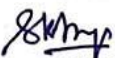
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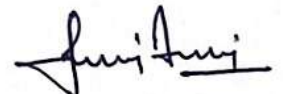
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Last Amended on: ____

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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SCOPE OF DESIGNATION
(ANNEXURE)

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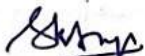
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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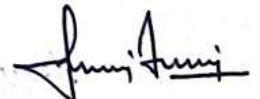
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : WCDMA or HSPA	Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC 24492106
		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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Certificate Number: TEC/MRA/CAB/IND-D/63-II

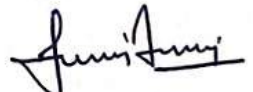
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : WCDMA or HSPA	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
Gurugram-122 016, Haryana

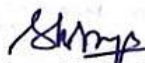
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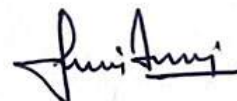
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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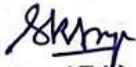
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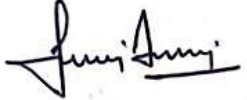
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 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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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
Gurugram-122 016, Haryana

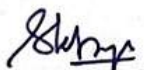
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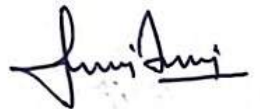
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Validity: 05/04/2022 to 04/04/2025

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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SCOPE OF DESIGNATION
(ANNEXURE)

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

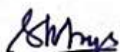
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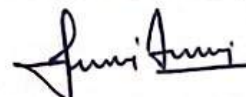
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: BLE	Accumulated Transmit time, Frequency Occupation & Hopping Sequence ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.4 & 5.4.4	TEC ER No. TEC 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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SCOPE OF DESIGNATION
(ANNEXURE)

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Plot N0. 174, Udyog Vihar, Phase-4, Sector-18,
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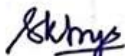
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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

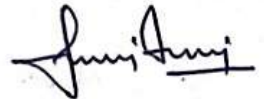
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: BLE	Adaptivity ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.7 or 4.3.2.6 & 5.4.6	TEC ER No. TEC 24492106
		Occupied Channel Bandwidth	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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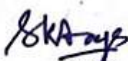
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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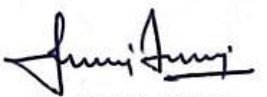
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: BLE	Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.10 or 4.3.2.9 & 5.4.9	TEC ER 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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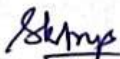
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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Last Amended on: ____

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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(ANNEXURE)

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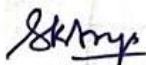
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Validity: 05/04/2022 to 04/04/2025

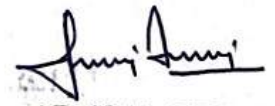
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: NFC	Transmitter radiated spurious domain emission limits ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC 24492106
		Transmitter 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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SCOPE OF DESIGNATION
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Certificate Number: TEC/MRA/CAB/IND-D/63-II

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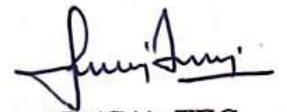
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: NFC	Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.2	TEC ER No. TEC 24492106
		Adjacent Channel Selectivity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

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

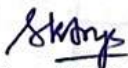
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ___

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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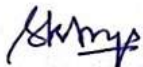
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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

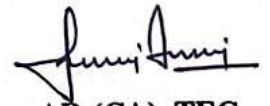
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	Geo Location Capability ETSI EN 300 328 V 2.2.2 Clause 4.3.1.13,4.3.2.12	TEC ER No. TEC 24492106
		Accumulated Transmit Time, 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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Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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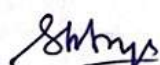
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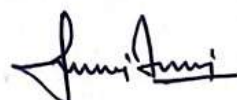
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ___

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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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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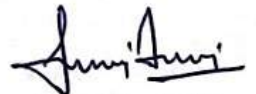
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	Transmitter Unwanted emissions in OOB Domain ETSI EN 300 328 V 2.2.2 Clause 4.3.1.9,4.3.2.8 & 5.3.9	TEC ER No. TEC 24492106
		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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Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18,
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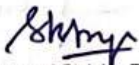
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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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: 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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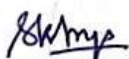
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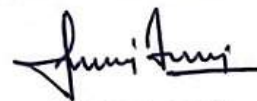
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	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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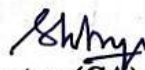
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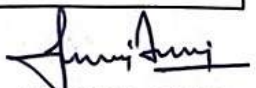
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 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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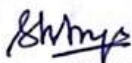
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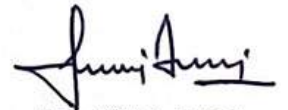
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Wi-Fi	Transmitter unwanted emission ETSI 302 502 V 2.1.1 Clause 4.3, 5.4.4	TEC ER No. TEC 24492106
		Transmitter Power Control ETSI 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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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

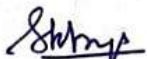
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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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: Wi-Fi	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
		Interface: Zig Bee	Frequency of Operation for Zig Bee Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER 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

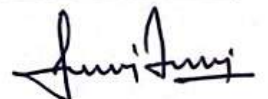
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: Zig Bee	Maximum Transmit Power for Zig Bee Interface ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2.2	TEC ER No. TEC 24492106
		EIRP 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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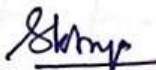
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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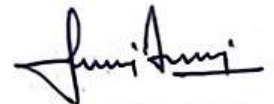
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Last Amended on: ___

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	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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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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Certificate Number: TEC/MRA/CAB/IND-D/63-II

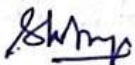
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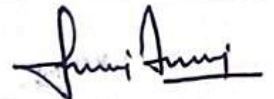
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: Zig Bee	Transmitter unwanted emissions in the spurious domain ETSI EN 300 328 V2.2.2 (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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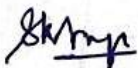
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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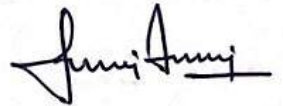
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 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
		Interface: 6 LoWPAN	Frequency of Operation for 6 LoWPAN Interface WPC GSR 45(E), ETSI EN 300 328 V2.2.2 (2019-07)	TEC ER No. TEC 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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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: 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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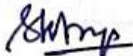
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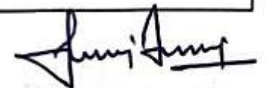
Validity: 05/04/2022 to 04/04/2025

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	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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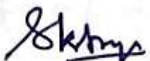
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Validity: 05/04/2022 to 04/04/2025

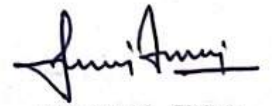
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 6 LoWPAN	Transmitter unwanted emission in the OOB domain ETSI EN 300 328 V2.2.2 (2019-07) Clause 4.3.1.9 or 4.3.2.8 & 5.4.8	TEC ER 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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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: 6 LoWPAN	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
		Interface: LPWAN- LoRa	Frequency of Operation for LoRa Interface WPC GSR 564(E), ETSI EN 300 220-1 V 3.1.1	TEC ER No. TEC 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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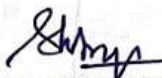
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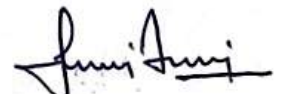
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LPWAN- LoRa	EIRP for LoRa Interface ETSI EN 300 220-1 V 3.1.1 Clause 5.2.2	TEC ER No. TEC 24492106
		Unwanted emissions in the Spurious 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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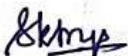
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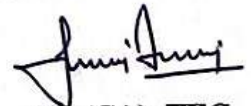
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LPWAN- LoRa	Occupied bandwidth ETSI EN 300 220-1 V 3.1.1 Clause 5.6.3	TEC ER No. TEC 24492106
		TX out of Band Emissions ETSI EN 300 220-1 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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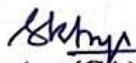
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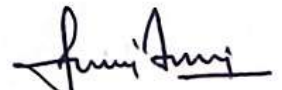
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN- LoRa	
		TX behaviour under low voltage conditions ETSI EN 300 220-1 V 3.1.1 Clause 5.12.3	TEC ER No. TEC 24492106
		Adaptive 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


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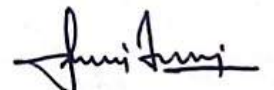
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface: LPWAN- SigFox	Frequency of Operation for SigFox Interface WPC GSR 564(E), ETSI 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



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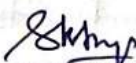
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Validity: 05/04/2022 to 04/04/2025

Last Amended on: ____

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


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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


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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

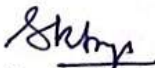
Certificate Number: TEC/MRA/CAB/IND-D/63-II

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

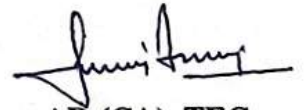
Last Amended on: ____

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

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



AD (CA), TEC