



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

CERTIFICATE OF DESIGNATION

M/S UL INDIA PRIVATE LIMITED, BENGALURU

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

**30/A, I STAGE, VISHVESHWARYA INDUSTRIAL ESTATE, DODDANEKKUNDI,
INDUSTRIAL AREA, BENGALURU -560048**

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/59-III

Issue Date: 20/06/2025

Validity: 27/06/2025 to 26/06/2028

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

(To see the scope of designation of this laboratory, you may also visit TEC website www.tec.gov.in)

Signed for and on behalf of TEC

Digitally signed by
Sanjeev Kumar Arya
Date: 20-06-2025
16:00:45
Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC

**Certificate No: TEC/MRA/CAB/IND-D/59-III dated 20/06/2025 issued to
M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.**



Validity: - 27/06/2025 to 26/06/2028

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESSMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESSMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 3 NO. TEC 04019:2023.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

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

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

B. REFERENCE TO DESIGNATION STATUS

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

C. POST-DESIGNATION SURVEILLANCE

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

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

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

E. AMENDMENT TO THE SCHEME

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

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 1 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Feedback Device	Interface: LPWAN-LoRA	TX effective radiated power ETSI EN 300 220-2 V3.2.1 Clause- 4.3.1 Annexure-G5 TEC ER No. TEC23232408
			TX maximum e. r. p. spectral density ETSI EN 300 220-2 V3.2.1 Clause- 4.3.2 Annexure-G5 TEC ER No. TEC23232408
			TX Occupied bandwidth/Carrier bandwidth ETSI EN 300 220-2 V3.2.1 Clause- 4.3.4 Annexure-G5 TEC ER No. TEC23232408
			TX out of Band emissions ETSI EN 300 220-2 V3.2.1 Clause- 4.3.5 Annexure-G5 TEC ER No. TEC23232408
2.	Smart Camera	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017 TEC ER No. TEC28822407
			Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017 TEC ER No. TEC28822407

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 2 of 59

Validity: 27/06/2025 to 26/06/2028

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	Interface: GSM/ GPRS/ EDGE	Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017	TEC ER No. TEC28822407
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017	TEC ER No. TEC28822407
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017	TEC ER No. TEC28822407
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017	TEC ER No. TEC28822407

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Page 3 of 59

Validity: 27/06/2025 to 26/06/2028

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Camera	Interface: GSM/ GPRS/ EDGE	Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.38:2019

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 4 of 59

Validity: 27/06/2025 to 26/06/2028

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	Interface: GSM/ GPRS/ EDGE	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC28822407
		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. TEC28822407
			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. TEC28822407
			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. TEC28822407
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28822407

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 5 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Camera	Interface : WCDMA or HSPA	Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1
			Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6
			Receiver In-band blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR EN 301 908-2 (UMTS) Clause- 4.2.7
		Interface: LTE or LTE-A	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 OR EN 301 908-13 (LTE) Clause- 4.2.2.1

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 6 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	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. TEC28822407
			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. TEC28822407
			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. TEC28822407
			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. TEC28822407
			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. TEC28822407

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 7 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	Interface: LTE or LTE-A	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. TEC28822407
		Interface: NFC	Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G6 ETSI EN 300 220-1 V 3.1.1 Clause-5.1.2 Annexure-G 5	TEC ER No. TEC28822407
			Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6	TEC ER No. TEC28822407
			Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G6	TEC ER No. TEC28822407
			Transmitter radiated Spurious domain emission limits <30 MHz ETSI EN 300 330 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8 Annexure-G6	TEC ER No. TEC28822407

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 8 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Camera	Interface: NFC	Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure-G6
			Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6
3.	Smart Watch	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017
			Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017

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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 9 of 59

Validity: 27/06/2025 to 26/06/2028

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: GSM/ GPRS/ EDGE	Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017

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Page 10 of 59

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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 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.38:2019

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Page 11 of 59

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	Smart Watch	Interface: GSM/ GPRS/ EDGE	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC28982407
		Interface: WCDMA or HSPA	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 OR EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC28982407
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC28982407
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2 (UMTS) Clause- 4.2.4.1	TEC ER No. TEC28982407
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28982407

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Page 12 of 59

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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. TEC28982407
			Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28982407
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause- 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC28982407
			Receiver In-band blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC28982407
		Interface: LTE or LTE-A	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 OR EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC28982407

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Page 13 of 59

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	Smart Watch	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. TEC28982407
			Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1,6.6.3.2, 6.6.3.3 OR EN 301 908-13 (LTE) Clause- 4.2.4.1	TEC ER No. TEC28982407
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10.1	TEC ER No. TEC28982407
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause- 7.3 OR EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC28982407
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 36.521-1 Clause- 7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC28982407

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



SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 14 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	Interface: LTE or LTE-A	Receiver In-band blocking 3GPP TS 36.521-1 Clause-7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC28982407
		Interface: NFC	Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G6 ETSI EN 300 220-1 V 3.1.1 Clause-5.1.2 Annexure-G 5	TEC ER No. TEC28982407
			Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6	TEC ER No. TEC28982407
			Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G6	TEC ER No. TEC28982407
			Transmitter radiated Spurious domain emission limits <30 MHz ETSI EN 300 330 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8 Annexure-G6	TEC ER No. TEC28982407

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 15 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	Interface: NFC	Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure-G6	TEC ER No. TEC28982407
			Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6	TEC ER No. TEC28982407
		Interface: RFID	Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G6 ETSI EN 300 220-1 V 3.1.1 Clause-5.1.2 Annexure-G 5	TEC ER No. TEC28982407
			Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6	TEC ER No. TEC28982407
			Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G6	TEC ER No. TEC28982407

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 16 of 59

Validity: 27/06/2025 to 26/06/2028

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 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8 Annexure-G6
			Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure- G6
			Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6
			EIRP for Interface ETSI EN 300 220-1 V3.1.1 Clause- 5.2.2Annexure- G5
			Maximum Transmit Power ETSI EN 300 220-1 V3.1.1 Clause- 5.2.2 Annexure- G5

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 17 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
4.	Smart Electricity Meter	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017
			Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017
			Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 18 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Electricity Meter	Interface: GSM/ GPRS/ EDGE	Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017	TEC ER No. TEC28362408
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017	TEC ER No. TEC28362408
			Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017	TEC ER No. TEC28362408
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017	TEC ER No. TEC28362408

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SCOPE OF DESIGNATION
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Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 19 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Electricity Meter	Interface: GSM/ GPRS/ EDGE	Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019	TEC ER No. TEC28362408
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1(2017-03) (GSM) Clause- 4.2.38:2019	TEC ER No. TEC28362408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC28362408
		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. TEC28362408
			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. TEC28362408

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GOVERNMENT OF INDIA
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TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 20 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Electricity Meter	Interface: WCDMA or HSPA	
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2 (UMTS) Clause- 4.2.4.1	TEC ER No. TEC28362408
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28362408
		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. TEC28362408
		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. TEC28362408
		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. TEC28362408

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 21 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Electricity Meter	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. TEC28362408
			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. TEC28362408
		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. TEC28362408
			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. TEC28362408
			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. TEC28362408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 22 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Electricity Meter	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
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 36.521-1 Clause- 7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6.1
			Receiver In-band blocking 3GPP TS 36.521-1 Clause-7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1
5.	Tracking Device	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017
			Transmitter output power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 23 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Tracking Device	Interface: GSM/ GPRS/ EDGE	Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017

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SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 24 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Tracking Device	Interface: GSM/ GPRS/ EDGE	Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.42:2019
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.38:2019

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GOVERNMENT OF INDIA
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DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 25 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	Interface: GSM/ GPRS/ EDGE	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC28732408
			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. TEC28732408
		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. TEC28732408
			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. TEC28732408
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28732408

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TELECOMMUNICATION ENGINEERING CENTRE
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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 26 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	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. TEC28732408
			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. TEC28732408
			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. TEC28732408
			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. TEC28732408
		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. TEC28732408

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GOVERNMENT OF INDIA
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TELECOMMUNICATION ENGINEERING CENTRE
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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 27 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Tracking Device	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
			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
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10.1
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause- 7.3 OR EN 301 908-13 (LTE) Clause- 4.2.12
			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. TEC28732408
			TEC ER No. TEC28732408
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GOVERNMENT OF INDIA
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DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 28 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Tracking Device	Interface: LTE or LTE-A	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. TEC28732408
6.	IoT Gateway	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017	TEC ER No. TEC24492408
			Transmitter output power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017	TEC ER No. TEC24492408
			Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017	TEC ER No. TEC24492408

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 29 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: GSM/ GPRS/ EDGE	Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017 TEC ER No. TEC24492408
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017 TEC ER No. TEC24492408
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017 TEC ER No. TEC24492408
			Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017 TEC ER No. TEC24492408

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 30 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	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 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1(2017-03) (GSM) Clause- 4.2.38:2019
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017

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TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 31 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

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

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



SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 32 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	Interface: WCDMA or HSPA	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. TEC24492408
			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. TEC24492408
			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. TEC24492408
		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. TEC24492408
			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. TEC24492408

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



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 33 of 59

Validity: 27/06/2025 to 26/06/2028

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 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. TEC24492408
			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. TEC24492408
			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. TEC24492408
			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. TEC24492408
			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. TEC24492408

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



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 34 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	Interface: NFC	Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G6 ETSI EN 300 220-1 V 3.1.1 Clause-5.1.2 Annexure-G 5	TEC ER No. TEC24492408
			Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6	TEC ER No. TEC24492408
			Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G6	TEC ER No. TEC24492408
			Transmitter radiated Spurious domain emission limits <30 MHz ETSI EN 300 330 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8, Annexure-G6	TEC ER No. TEC24492408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 35 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	Interface: NFC	Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure-G6	TEC ER No. TEC24492408
			Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6	TEC ER No. TEC24492408
		Interface: LPWAN- LoRA	TX effective radiated power ETSI EN 300 220-2 V3.2.1 Clause- 4.3.1 Annexure-G5	TEC ER No. TEC24492408
			TX maximum e. r. p. spectral density ETSI EN 300 220-2 V3.2.1 Clause- 4.3.2 Annexure-G5	TEC ER No. TEC24492408
			TX Occupied bandwidth/Carrier bandwidth ETSI EN 300 220-2 V3.2.1 Clause- 4.3.4 Annexure-G5	TEC ER No. TEC24492408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 36 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN- LoRA	TX out of Band emissions ETSI EN 300 220-2 V3.2.1 Clause- 4.3.5 Annexure-G5
			TEC ER No. TEC24492408
			Frequency of Operation ETSI EN 300 220-1 V3.1.1 Clause- 5.1.2 Annexure-G5
			TEC ER No. TEC24492408
			EIRP for Interface ETSI EN 300 220-2 V3.1.1 Clause- 5.2.2 Annexure-G5
			TEC ER No. TEC24492408
			Maximum Transmit Power ETSI EN 300 220-2 V3.1.1 Clause- 5.2.2 Annexure-G5
			TEC ER No. TEC24492408
			Unwanted Emissions in the Spurious domain ETSI EN 300 220-2 V3.1.1 Clause- 5.9.3 Annexure-G5
			TEC ER No. TEC24492408
			TX Transient ETSI EN 300 220-2 V3.1.1 Clause- 4.3.6 Annexure-G5
			TEC ER No. TEC24492408
			TX Adjacent channel Power ETSI EN 300 220-2 V3.1.1 Clause- 4.3.7 Annexure-G5
			TEC ER No. TEC24492408
			TX behaviour under low voltage conditions ETSI EN 300 220-2 V3.1.1 Clause- 4.3.8 Annexure-G5
			TEC ER No. TEC24492408

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 37 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface: LPWAN-LoRA	RX Sensitivity ETSI EN 300 220-2 V3.1.1 Clause- 4.4.1 Annexure-G5 TEC ER No. TEC24492408
			RX Blocking ETSI EN 300 220-2 V3.1.1 Clause- 5.18.6 Annexure-G5 TEC ER No. TEC24492408
7.	END Point Device for Environmental Monitoring	Interface: GSM/GPRS/EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017 TEC ER No. TEC23732408
			Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017 TEC ER No. TEC23732408
			Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017 TEC ER No. TEC23732408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 38 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	END Point Device for Environmental Monitoring	Interface: GSM/ GPRS/ EDGE	Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017 TEC ER No. TEC23732408
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017 TEC ER No. TEC23732408
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017 TEC ER No. TEC23732408
			Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017 TEC ER No. TEC23732408

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SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 39 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	END Point Device for Environmental Monitoring	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 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017 TEC ER No. TEC23732408
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019 TEC ER No. TEC23732408
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1(2017-03) (GSM) Clause- 4.2.38:2019 TEC ER No. TEC23732408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017 TEC ER No. TEC23732408

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 40 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	END Point Device for Environmental Monitoring	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
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1
			Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2(UMTS) Clause- 4.2.4.1
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1

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



SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 41 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	END Point Device for Environmental Monitoring	Interface : WCDMA or HSPA	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. TEC23732408
			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. TEC23732408
			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. TEC23732408
		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. TEC23732408
			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. TEC23732408

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



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 42 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	END Point Device for Environmental Monitoring	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. TEC23732408
			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. TEC23732408
			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. TEC23732408
			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. TEC23732408
			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. TEC23732408

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GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 43 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
8.	Mobile User Equipment	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017
			TEC ER No. TEC47722408
			Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017
			TEC ER No. TEC47722408
			Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017
			TEC ER No. TEC47722408
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017
			TEC ER No. TEC47722408

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 44 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

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- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017
			TEC ER No. TEC47722408
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017
			TEC ER No. TEC47722408
		Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017	TEC ER No. TEC47722408
		Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017	TEC ER No. TEC47722408

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GOVERNMENT OF INDIA
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
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Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 45 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	Interface: GSM/ GPRS/ EDGE	Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019	TEC ER No. TEC47722408
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1(2017-03) (GSM) Clause- 4.2.38:2019	TEC ER No. TEC47722408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017	TEC ER No. TEC47722408
		Interface : WCDMA or HSPA	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 OR EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC47722408
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC47722408

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GOVERNMENT OF INDIA
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SCOPE OF DESIGNATION
(ANNEXURE)

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 46 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface : WCDMA or HSPA	Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2(UMTS) Clause- 4.2.4.1
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10
			Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5.1
			Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6

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TELECOMMUNICATION ENGINEERING CENTRE
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 47 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	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
		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
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 OR EN 301 908-13 (LTE) Clause- 4.2.3.1
			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
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10.1

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



SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 48 of 59

Validity: 27/06/2025 to 26/06/2028

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
			Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 36.521-1 Clause- 7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6.1
			Receiver In-band blocking 3GPP TS 36.521-1 Clause- 7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1
9.	IP Multimedia Conferencing Equipment	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
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3.1

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



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 49 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IP Multimedia Conferencing Equipment	Interface: WCDMA or HSPA	Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2 (UMTS) Clause- 4.2.4.1
			TEC ER No. TEC34622401
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10
			TEC ER No. TEC34622401
			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. TEC34622401
			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. TEC34622401
		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. TEC34622401

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 50 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing Equipment	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. TEC34622401
			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. TEC34622401
		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. TEC34622401
			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. TEC34622401
			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. TEC34622401

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DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 51 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IP Multimedia Conferencing 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. TEC34622401
			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. TEC34622401
			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. TEC34622401
10.	Router	Interface: GSM/ GPRS/ EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.5:2017	TEC ER No. TEC37682410
			Transmitter output power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.10:2017	TEC ER No. TEC37682410

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 52 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Router	Interface: GSM/ GPRS/ EDGE	Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.6:2017 TEC ER No. TEC37682410
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.11:2017 TEC ER No. TEC37682410
			Spurious Emissions - MS allocated a channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.12:2017 TEC ER No. TEC37682410
			Spurious Emissions - MS in idle mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.13:2017 TEC ER No. TEC37682410

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SCOPE OF DESIGNATION
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 53 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Router	Interface: GSM/ GPRS/ EDGE	Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.1:2017
			Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.4:2017
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 V 12.5.1 (2017-03)(GSM) Clause- 4.2.42:2019
			Adjacent channel rejection - Speech channels 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.38:2019

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TELECOMMUNICATION ENGINEERING CENTRE
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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 54 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Router	Interface: GSM/ GPRS/ EDGE	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 V 12.5.1 (2017-03) (GSM) Clause- 4.2.20:2017 TEC ER No. TEC37682410
		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. TEC37682410
			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. TEC37682410
			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. TEC37682410
			Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10 TEC ER No. TEC37682410

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TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 55 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	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. TEC37682410
			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. TEC37682410
			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. TEC37682410
			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. TEC37682410
		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. TEC37682410

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GOVERNMENT OF INDIA
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DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 56 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Router	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. TEC37682410
			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. TEC37682410
			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. TEC37682410
			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. TEC37682410
			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. TEC37682410

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GOVERNMENT OF INDIA
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DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 57 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Router	Interface: LTE or LTE-A	Receiver In-band blocking 3GPP TS 36.521-1 Clause-7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7.1
11.	HF Radio	Interface: NFC	Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G6 ETSI EN 300 220-1 V 3.1.1 Clause-5.1.2 Annexure-G 5
			Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6
			Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G6
			Transmitter radiated Spurious domain emission limits <30 MHz ETSI EN 300 330 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8 Annexure-G6

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GOVERNMENT OF INDIA
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DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
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SCOPE OF DESIGNATION **(ANNEXURE)**

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30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 58 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	HF Radio	Interface: NFC	Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure-G6	TEC ER No. TEC54372501
			Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6	TEC ER No. TEC54372501
12.	VHF UHF Radio System Equipments	Interface: NFC	Frequency of Operation ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 6.2.2 Annexure-G6 ETSI EN 300 220-1 V 3.1.1 Clause-5.1.2 Annexure-G 5	TEC ER No. TEC58432407
			Permitted Range of Operating Frequencies ETSI EN 300 330 V 2.1.1 (2017-02) Clause- 4.3.1 Annexure-G6	TEC ER No. TEC58432407

***The validity of Certificate is up to 26/06/2028 or the continued validity of NABL Accreditation, whichever is earlier.**

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



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s UL India Private Limited, Bengaluru
30/A, I Stage, Vishveshwarya Industrial Estate, Doddanekkundi,
Industrial Area, Bengaluru -560048.

Certificate Number: TEC/MRA/CAB/IND-D/59-III

Page 59 of 59

Validity: 27/06/2025 to 26/06/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	VHF UHF Radio System Equipments	Interface: NFC	Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.3, Clause- 6.2.3 Annexure- G6
			TEC ER No. TEC58432407
			Transmitter radiated Spurious domain emission limits <30 MHz ETSI EN 300 330 V 2.1.1 (2017-02) Clause-4.3.8, 6.2.8 Annexure-G6
			TEC ER No. TEC58432407
			Transmitter Radiated Spurious domain Emission limits > 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.3.9 (For equipment under class 1, 2 and 4 in clause- 6.1.2), Clause- 6.2.9 Annexure-G6
			TEC ER No. TEC58432407
			Receiver Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause- 4.4.2, Clause- 6.3.1 Annexure- G6
			TEC ER No. TEC58432407

Digitally signed by
Rajeev Ranjan
Date: 2025.06.20
16:09:56

***The validity of Certificate is up to 26/06/2028 or the continued validity of NABL Accreditation, whichever is earlier.**