



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 Sunren Telecom Laboratory, Mumbai

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

**C-475, TTC Industrial Area, MIDC Pawane, Navi Mumbai,
Maharashtra-400 705**

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/68-III

Issue Date: 17/01/2023

Validity: 17/01/2023 to 16/01/2026

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

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

Signed for and on behalf of TEC

Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Sunren Telecom Laboratory,
C-475, TTC Industrial Area, MIDC Pawane, Navi Mumbai,
Maharashtra-400 705.

Certificate Number: TEC/MRA/CAB/IND-D/68-III

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Validity: 17/01/2023 to 16/01/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
1.	Smart Camera	Parameters link with Product Variant	IPV4 Parameters RFC 791. Annex-P6	TEC ER No. TEC28822301
			IPV6 Parameters RFC 2460 / 8200. Annex-P7	TEC ER No. TEC28822301
			IoT Dev - Non-0 IMEI or MEID or Unique MAC. Annex-M	TEC ER No. TEC28822301
2.	Smart Watch	Parameters link with Product Variant	IPV4 Parameters RFC 791. Annex-P6	TEC ER No. TEC28982301
			IPV6 Parameters RFC 2460 / 8200. Annex-P7	TEC ER No. TEC28982301
			IoT Dev - Non-0 IMEI or MEID or Unique MAC. Annex-M	TEC ER No. TEC28982301
			GPS Compliance	TEC ER No. TEC28982301



AD (CA), TEC

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
3.	Smart Electricity Meter	Parameters link with Product Variant	IPV4 Parameters RFC 791. Annex-P6 TEC ER No. TEC28362211
			IPV6 Parameters RFC 2460 / 8200. Annex-P7 TEC ER No. TEC28362211
			IoT Dev - Non-0 IMEI or MEID or Unique MAC. Annex-M TEC ER No. TEC28362211
4.	Tracking Device	Parameters link with Product Variant	IPV6 Extn. Header Parameters RFC 2460, RFC 800 TEC ER No. TEC28732301
			IPV6 Header Parameters RFC 2460, RFC 800 TEC ER No. TEC28732301
			IoT Dev - Non-0 IMEI or MEID or Unique MAC. Annex-M TEC ER No. TEC28732301
			GPS Compliance TEC ER No. TEC28732301


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
5.	IoT Gateway	Parameters link with Product Variant	IPV4 Parameters RFC 791. Annex-P6	TEC ER No. TEC24492301
			IPV6 Parameters RFC 2460 / 8200. Annex-P7	TEC ER No. TEC24492301
			IoT Dev - Non-0 IMEI or MEID or Unique MAC. Annex-M	TEC ER No. TEC24492301
			GPS Compliance	TEC ER No. TEC24492301
		Interface: Bluetooth Low Energy (BLE)/ ZigBee/ 6LowPAN	Frequency of Operation	TEC ER No. TEC24492301
			Peak Power / EIRP / ERP/ Output Power/ Maximum Transmit Power (Conducted) ETSI EN 300 328 V2.2.2 Clause 5.4.2.2	TEC ER No. TEC24492301
			Power Spectral Density ETSI EN 300 328 V2.2.2 Clause 5.4.3	TEC ER No. TEC24492301


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Duty cycle, Tx-Sequence, Tx-gap ETSI EN 300 328 V2.2.2 Clause 5.4.2	TEC ER No. TEC24492301
		Accumulated Transmit Time, Frequency occupation and Hopping sequence / TX FHSS ETSI EN 300 328 V2.2.2 Clause 5.4.4	TEC ER No. TEC24492301
		Hopping Frequency Separation ETSI EN 300 328 V2.2.2 Clause 5.4.5	TEC ER No. TEC24492301
		Medium utilization Factor ETSI EN 300 328 V2.2.2 Clause 5.4.2	TEC ER No. TEC24492301
		Adaptivity ETSI EN 300 328 V2.2.2 Clause 5.4.6	TEC ER No. TEC24492301


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Validity: 17/01/2023 to 16/01/2026

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Occupied bandwidth / Carrier Bandwidth ETSI EN 300 328 V2.2.2 Clause 5.4.7	TEC ER No. TEC24492301
		Transmitter unwanted emission in the OOB domain (Conducted) ETSI EN 300 328 V2.2.2 Clause 5.4.8	TEC ER No. TEC24492301
		Transmitter unwanted emissions in the spurious domain (Conducted) ETSI EN 300 328 V2.2.2 Clause 5.4.9	TEC ER No. TEC24492301
		Receiver spurious emissions (Conducted) ETSI EN 300 328 V2.2.2 Clause 5.4.10	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Receiver Blocking ETSI EN 300 328 V2.2.2 Clause 5.4.11.2	TEC ER No. TEC24492301	
		Geo location Capability ETSI EN 300 328 V2.2.2 Clause 4.3.1.13 or 4.3.2.12	TEC ER No. TEC24492301	
		Interface: LPWAN- LoRa / LPWAN- SigFox	Operating Frequency	TEC ER No. TEC24492301
			EIRP / Maximum Transmit Power ETSI EN 300 220-1 V3.1.1 Clause 5.2.2	TEC ER No. TEC24492301
			Transmitter Unwanted emissions in the spurious domain (Conducted) ETSI EN 300 220-1 V3.1.1 Clause 5.9.3	TEC ER No. TEC24492301


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	TX maximum e.r.p spectral Density ETSI EN 300 220-1 V3.1.1 Clause 5.3.2	TEC ER No. TEC24492301
		Tx Duty Cycle ETSI EN 300 220-1 V3.1.1 Clause 5.5.2	TEC ER No. TEC24492301
		TX Occupied bandwidth / Carrier bandwidth ETSI EN 300 220-1 V3.1.1 Clause 5.6.3	TEC ER No. TEC24492301
		Out of Band / Spurious Emissions (Conducted) ETSI EN 300 220-1 V3.1.1 Clause 5.8.3	TEC ER No. TEC24492301
		TX Transient ETSI EN 300 220-1 V3.1.1 Clause 5.10.3	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	TX Adjacent channel power / TX Adaptive power control ETSI EN 300 220-1 V3.1.1 Clause 5.11.3	TEC ER No. TEC24492301
		TX behaviour under low voltage conditions / TX Short term behavior ETSI EN 300 220-1 V3.1.1 Clause 5.12.3	TEC ER No. TEC24492301
		TX Adjacent channel power / TX Adaptive power control ETSI EN 300 220-1 V3.1.1 Clause 5.13.3	TEC ER No. TEC24492301
		TX FHSS ETSI EN 300 220-2 V3.1.1 Clause 4.3.10.3	TEC ER No. TEC24492301


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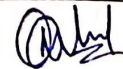
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	IoT Gateway	TX behaviour under low voltage conditions / TX Short term behavior ETSI EN 300 220-1 Clause 5.5.2	TEC ER No. TEC24492301
		RX sensitivity ETSI EN 300 220-1 Clause 5.14.3	TEC ER No. TEC24492301
		Clear channel assessment threshold & ETSI EN 300 220-1 V3.1.1 Clause 5.21.2.3	TEC ER No. TEC24492301
		Polite spectrum access timing parameters ETSI EN 300 220-1 V3.1.1 Clause 5.21.3.2	TEC ER No. TEC24492301
		Interface: GSM or	Frequency of Operation Latest NFAP issued by WPC



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	GPRS or EDGE	Transmitter Maximum output power for GSM 3GPP TS 51 010-1 Clause 13.3 EN 301 511 (GSM) Clause 4.2.5	TEC ER No. TEC24492301
			Transmitter Maximum output power for GPRS/EDGE 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC24492301
			Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC24492301
		Spurious emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause 12.1.1 EN 301 511 (GSM) Clause 4.2.12	TEC ER No. TEC24492301
		Spurious emission (MS in idle mode) 3GPP TS 51 010-1 Clause 12.1.2 EN 301 511 (GSM) Clause 4.2.13	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Frequency Error and Phase error for GSM 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC24492301
		Frequency Error and Phase error for GPRS/EDGE 3GPP TS 51 010-1 Clause 13.16.1 EN 301 511 (GSM) Clause 4.2.4	TEC ER No. TEC24492301
		Reference sensitivity level (speech channels) 3GPP TS 51 010-1 Clause 14.2.1 EN 301 511 (GSM) Clause 4.2.42	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Adjacent Channel Rejection (speech channels) 3GPP TS 51 010-1 Clause 14.5.1 EN 301 511 (GSM) Clause 4.2.38	TEC ER No. TEC24492301	
		Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC24492301	
		Interface : LTE or LTE-A	Frequency of Operation Latest NFAP issued by WPC	TEC ER No. TEC24492301
		Maximum output power 3GPP TS 36.521-1 Clause 6.2.2 EN 301 908-13 (LTE) Clause 4.2.2.1	TEC ER No. TEC24492301	



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Spectrum emissions mask 3GPP TS 36.521-1 Clause 6.6.2.1 EN 301 908-13 (LTE) Clause 4.2.3.1	TEC ER No. TEC24492301
		Spurious emissions 3GPP TS 36.521-1 Clauses 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause 4.2.4.1	TEC ER No. TEC24492301
		Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC24492301
		Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC24492301


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause 7.5 EN 301 908-13 (LTE) Clause 4.2.6.1	TEC ER No. TEC24492301
		Receiver In-band blocking 3GPP TS 36.521-1 Clause 7.6.1 EN 301 908-13 (LTE) Clause 4.2.7.1	TEC ER No. TEC24492301
		Interface: WCDMA or HSPA Frequency of Operation Latest NFAP issued by WPC	TEC ER No. TEC24492301
		Transmitter Maximum output power 3GPP TS 34.121-1 Clause 5.2 EN 301 908-2 (UMTS) Clause 4.2.2.1	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Transmitter Spectrum emissions mask 3GPP TS 34.121-1 Clause 5.9 EN 301 908-2 (UMTS) Clause 4.2.3.1	TEC ER No. TEC24492301
		Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4.1	TEC ER No. TEC24492301
		Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC24492301
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause 5.4.3 EN 301 908-2 (UMTS) Clause 4.2.5.1	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC24492301
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause 6.4 EN 301 908-2 (UMTS) Clause 4.2.6	TEC ER No. TEC24492301
		Receiver In-band blocking 3GPP TS 34.121-1 Clause 6.5.2.1 EN 301 908-2 (UMTS) Clause 4.2.7	TEC ER No. TEC24492301
		Interface: NFC Frequency of Operation of interface ETSI EN 300 330 V2.1.1 Clause 6.2.2	TEC ER No. TEC24492301


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Permitted Frequency Range ETSI EN 300 330 V2.1.1 Clause 4.3.1	TEC ER No. TEC24492301
		Modulation bandwidth ETSI EN 300 330 V2.1.1 Clause 6.2.3	TEC ER No. TEC24492301
		Transmitter H-field ETSI EN 300 330 V2.1.1 Clause 6.2.4	TEC ER No. TEC24492301
		Transmitter conducted spurious emissions ETSI EN 300 330 V2.1.1 Clause 6.2.7	TEC ER No. TEC24492301
		Transmitter radiated spurious domain emission limits < 30 MHz ETSI EN 300 330 V2.1.1 Clause 6.2.8	TEC ER No. TEC24492301



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Transmitter radiated spurious domain emission limits >30 MHz ETSI EN 300 330 V2.1.1 Clause 6.2.9	TEC ER No. TEC24492301
		Transmitter Frequency stability ETSI EN 300 330 V2.1.1 Clause 6.2.10	TEC ER No. TEC24492301
		Receiver spurious Emission ETSI EN 300 330 V2.1.1 Clause 6.3.1	TEC ER No. TEC24492301
		Adjacent channel selectivity ETSI EN 300 330 V2.1.1 Clause 6.3.2	TEC ER No. TEC24492301
		Receiver blocking ETSI EN 300 330 V2.1.1 Clause 6.3.3	TEC ER No. TEC24492301



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Validity: - 17/01/2023 to 16/01/2026

Terms & Conditions

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

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

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

A handwritten signature in black ink, appearing to be 'Ashish', located at the bottom right of the page.

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.

