



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-II

Issue Date: 01/01/2026

Validity: 06/01/2026 to 05/01/2029

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: 01-01-2026
17:11:07
Sanjeev Kumar Arya
Director (CA)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/68-II dated 01/01/2026 issued to
M/s Sunren Telecom Laboratory, Mumbai
C-475, TTC Industrial Area, MIDC Pawane,
Navi Mumbai, Maharashtra-400 705



Validity: - 06/01/2026 to 05/01/2029

Terms & Conditions

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

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

1. It shall ensure that it maintains its accreditation status from any recognized 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 Organizational 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 Sunren Telecom Laboratory, Mumbai
C-475, TTC Industrial Area, MIDC Pawane, Navi Mumbai,
Maharashtra-400 705

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

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Validity: 06/01/2026 to 05/01/2029

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
1.	EMI/EMC testing of Telecom Products	Conducted Emission Test CISPR 32	TEC/SD/DD/EMC-221/OCT-16
2.	Audio, video and similar electronic apparatus – Safety requirements	Clearances and Creepage Distances Clause 13	IEC 60065:2014
		Components (Verification of reports as per relevant Standards) Clause 14	IEC 60065:2014
		Constructional Requirements with regard to the Protection against Electric Shock Clause 8	IEC 60065:2014
		Electric Shock hazard under normal Operating Condition Clause 9.1, 9.2	IEC 60065:2014
		Electrical Connection and Mechanical fixings Clause 17	IEC 60065:2014
		Fault Conditions Clause 11	IEC 60065:2014
		Heating under normal Operating Conditions- General Clause 7.1	IEC 60065:2014
		Heating under normal Operating Conditions Heat Resistance of insulating material Clause 7.2	IEC 60065:2014
		Input Rating Clause 4.2 & 5.1	IEC 60065:2014
		Insulation resistance and dielectric strength Clause 10.4	IEC 60065:2014

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Audio, video and similar electronic apparatus – Safety requirements	Marking & Instructions-Identification & supply rating Clause 5.1, 5.3, 5.4, 5.5		IEC 60065:2014
		Mechanical Strength Clause 12.6		IEC 60065:2014
		Stability and Mechanical hazards Clause 19		IEC 60065:2014
		Terminals Clause 15		IEC 60065:2014
3.	Equipment operating in 2.4 GHz, 5 GHz frequency bands	Parameters link with Product Variant	IPV6 Extn Header Parameters RFC 2460, RFC 8200	TEC ER No. TEC 59432407
			IPV6 Header Parameters RFC 2460, RFC 8200	TEC ER No. TEC 59432407
		Interface: Wi-Fi	EIRP (Conducted) ETSI EN 300 328	TEC ER No. TEC 59432407
			Frequency Range / Frequency Stability/ Frequency of Operation ETSI EN 300 328	TEC ER No. TEC 59432407
			6 dB & 20 dB Bandwidth/ TX Occupied bandwidth/ Carrier bandwidth ETSI EN 300 328	TEC ER No. TEC 59432407
			Accumulated Transmit Time, Frequency Operation and Hopping Sequence ETSI EN 300 328	TEC ER No. TEC 59432407

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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	Interface: Wi-Fi	Adaptivity ETSI EN 300 328	TEC ER No. TEC 59432407
			Duty Cycle, Tx sequence, Tx gap ETSI EN 300 328	TEC ER No. TEC 59432407
			Geolocation Capability ETSI EN 300 328	TEC ER No. TEC 59432407
			Hopping Frequency Separation ETSI EN 300 328	TEC ER No. TEC 59432407
			Medium Utilization Factor ETSI EN 300 328	TEC ER No. TEC 59432407
			Power Spectral Density ETSI EN 300 328	TEC ER No. TEC 59432407
			Receiver Blocking ETSI EN 300 328	TEC ER No. TEC 59432407
			Receiver Spurious Emission (Conducted) ETSI EN 300 328	TEC ER No. TEC 59432407
			Transmitted unwanted Emission in OOB Domain (Conducted) ETSI EN 300 328	TEC ER No. TEC 59432407
			Transmitted unwanted Emission in the spurious domain (Conducted) ETSI EN 300 328	TEC ER No. TEC 59432407
			EIRP (Conducted) ETSI EN 301 893	TEC ER No. TEC 59432407

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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	Interface: Wi-Fi	Frequency Range / Frequency Stability/ Frequency of Operation ETSI EN 301 893
			6 dB & 20 dB Bandwidth/ TX Occupied bandwidth/ Carrier bandwidth ETSI EN 301 893
			Adaptivity ETSI EN 301 893
			Geolocation Capability ETSI EN 301 893
			Peak Power/ EIRP/ ERP/ Output Power/ Maximum Transmit Power (Conducted) ETSI EN 301 893
			Power Spectral Density ETSI EN 301 893
			Receiver Blocking ETSI EN 301 893
			Receiver Spurious Emission (Conducted) ETSI EN 301 893
			Carrier Frequencies ETSI EN 301 893
			Designation of Centre Frequencies and frequency error ETSI EN 301 893
			TEC ER No. TEC 59432407
			TEC ER No. TEC 59432407
			TEC ER No. TEC 59432407
			TEC ER No. TEC 59432407
			TEC ER No. TEC 59432407
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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	Interface: Wi-Fi	
		Dynamic Frequency Selection (DFS) ETSI EN 301 893	TEC ER No. TEC 59432407
		Nominal and occupied, channel bandwidth ETSI EN 301 893	TEC ER No. TEC 59432407
		RF output power, Transmit power control (TPC), Power Density ETSI EN 301 893	TEC ER No. TEC 59432407
		Transmitted unwanted Emission outside the 5 GHz RLAN bands (Conducted) ETSI EN 301 893	TEC ER No. TEC 59432407
		Transmitted unwanted Emission within the 5 GHz RLAN bands (Conducted) ETSI EN 301 893	TEC ER No. TEC 59432407
		EIRP (Conducted) ETSI EN 302 502	TEC ER No. TEC 59432407
		Frequency Range / Frequency Stability/ Frequency of Operation ETSI EN 302 502	TEC ER No. TEC 59432407
		6 dB & 20 dB Bandwidth/ TX Occupied bandwidth/ Carrier bandwidth ETSI EN 302 502	TEC ER No. TEC 59432407
		Adaptivity ETSI EN 302 502	TEC ER No. TEC 59432407

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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	Interface: Wi-Fi	Geolocation Capability ETSI EN 302 502	TEC ER No. TEC 59432407
			Peak Power/ EIRP/ ERP/ Output Power/ Maximum Transmit Power ETSI EN 302 502	TEC ER No. TEC 59432407
			Power Spectral Density ETSI EN 302 502	TEC ER No. TEC 59432407
			Receiver Blocking ETSI EN 302 502	TEC ER No. TEC 59432407
			Receiver Spurious Emission (Conducted) ETSI EN 302 502	TEC ER No. TEC 59432407
			Carrier Frequencies ETSI EN 302 502	TEC ER No. TEC 59432407
			Designation of Centre Frequencies and frequency error ETSI EN 302 502	TEC ER No. TEC 59432407
			Dynamic Frequency Selection (DFS) ETSI EN 302 502	TEC ER No. TEC 59432407
			Nominal and occupied, channel bandwidth ETSI EN 302 502	TEC ER No. TEC 59432407
			RF output power, Transmit power control (TPC), Power Density ETSI EN 302 502	TEC ER No. TEC 59432407

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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	Interface: Wi-Fi	Transmitted unwanted Emission outside the 5 GHz RLAN bands (Conducted) ETSI EN 302 502	TEC ER No. TEC 59432407
			Transmitted unwanted Emission within the 5 GHz RLAN bands (Conducted) ETSI EN 302 502	TEC ER No. TEC 59432407
4.	Point of Sale Devices	Interface: GSM or GPRS or EDGE	Frequency of Operation Latest NFAP issued by WPC	TEC ER No. TEC17672407
			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. TEC17672407
			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. TEC17672407
			Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Point of Sale Devices	Interface: GSM or GPRS or EDGE	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. TEC17672407
			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. TEC17672407
			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. TEC17672407
			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. TEC17672407
			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. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Point of Sale Devices	Interface: GSM or GPRS or EDGE	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. TEC17672407
			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. TEC17672407
		Interface : LTE or LTE-A	Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20
			TEC ER No. TEC17672407
			Frequency of Operation Latest NFAP issued by WPC
			TEC ER No. TEC17672407
			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. TEC17672407
			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. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Point of Sale Devices	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 EN 301 908-13 (LTE) Clause 4.2.4.1
			Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause 7.5 EN 301 908-13 (LTE) Clause 4.2.6.1
			Receiver In-band blocking 3GPP TS 36.521-1 Clause 7.6.1 EN 301 908-13 (LTE) Clause 4.2.7.1
		Interface: WCDMA or HSPA	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
	Point of Sale Devices	Interface: WCDMA or HSPA	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. TEC17672407
		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. TEC17672407
		Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4.1	TEC ER No. TEC17672407
		Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC17672407
		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. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Point of Sale Devices	Interface: WCDMA or HSPA	Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC17672407
			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. TEC17672407
			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. TEC17672407
5.	LAN Switch	Parameters link with Product Variant	Mac Learning and Packet Forwarding Annex-P11	TEC ER No. TEC37942410
			Manageability SNMP V2 or V3 RFC 3410 3416	TEC ER No. TEC37942410
			Spanning Tree Protocol IEEE 802.1d	TEC ER No. TEC37942410
			Dynamic Routing Annex-P11	TEC ER No. TEC37942410
			Static Routing Annex-P11	TEC ER No. TEC37942410

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	LAN Switch	Parameters link with Product Variant	IPV4 Parameters Set-D RFC 791, Annex-P11	TEC ER No. TEC37942410
			IPV6 as per RFC 2460 or RFC 8200, Annex-P11	TEC ER No. TEC37942410

Digitally signed by
Buddha Priya Rahul
Date: 01-01-2026
17:25:33
AD (CA-11), TEC

***The validity of Certificate is up to 05/01/2029 or the continued validity of NABL Accreditation, whichever is earlier.**