



सत्यमेव जयते



**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 SGS India Private Limited, Bengaluru
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

**No. 38/1 and 38/2, New BBMP, No. 88/45/45, Beretena Agrahara Begur Hobli,
Hosur Main road, Bengaluru-560 100**

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/31-II

Issue Date: 06/04/2022

Valid Until: 05/04/2025

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

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

Signed for and on behalf of TEC

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

Certificate No: TEC/MRA/CAB/IND-D/31-II dated 06/04/2022 issued to
M/s SGS India Private Limited, Bengaluru
No. 38/1 and 38/2, New BBMP, No. 88/45/45, Beretena Agrahara Begur Hobli,
Hosur Main road, Bengaluru-560 100

Validity: -06/04/2022 to 05/04/2025

Terms & Conditions

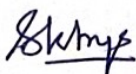
This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

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



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

B. REFERENCE TO DESIGNATION STATUS

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

C. POST-DESIGNATION SURVEILLANCE

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

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

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

E. AMENDMENT TO THE SCHEME

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



SCOPE OF DESIGNATION
(ANNEXURE)

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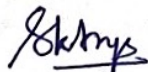
Certificate Number: TEC/MRA/CAB/IND-D/31-II

Page 1 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	EMI/EMC Testing for Telecom Equipment	Conducted Emission Test CISPR 11 (Edition 6.1) 2015 + AMD1	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emissions Test CISPR 22 (Edition 6.0)	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emissions Test CISPR 32 (Edition 2.0)	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic Discharge (ESD) Test IEC 61000-4-2:2008	TEC/SD/DD/EMC-221/05/OCT-16
		Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line) IEC 61000-4-4 (Edition 3.0)	TEC/SD/DD/EMC-221/05/OCT-16
		Surge Test IEC 61000-4-5:2014: 1(Edition3.1)	TEC/SD/DD/EMC-221/05/OCT-16



Director (CA), TEC



AD (CA), TEC

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Page 2 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	EMI/EMC Testing for Telecom Equipment	Conducted disturbances, induced by radio-frequency fields Immunity Test IEC 61000-4-6 (Edition 4.0)	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage dips, short interruptions and voltage variations on a.c input power port immunity test IEC 61000-4-11: 2004+A1 (Edition 2.0)	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage dips, short interruptions and voltage variations on d.c. input power port immunity test IEC 61000-4-29	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters
2.	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Fixing Conductor Clause-4.6	IEC 62368-1:2018 (Ed 3.0)


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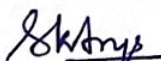
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Page 3 of 15

Validity: 06/04/2022 to 05/04/2025


Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Equipment for direct insertion in to mains socket-outlets (Socket -outlet test) Clause-4.7	IEC 62368-1:2018 (Ed 3.0)
		Stress Relief Test for equipment containing coin / button cell batteries Clause- 4.8.4.2	IEC 62368-1:2018 (Ed 3.0)
		Battery Replacement Test for equipment containing coin / button cell batteries Clause- 4.8.4.3	IEC 62368-1:2018 (Ed 3.0)
		Drop Test for equipment containing coin / button cell batteries Clause- 4.8.4.4	IEC 62368-1:2018 (Ed 3.0)
		Impact Test for equipment containing coin / button cell batteries Clause- 4.8.4.5	IEC 62368-1:2018 (Ed 3.0)



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Certificate Number: TEC/MRA/CAB/IND-D/31-II

Page 4 of 15

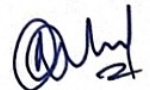
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Crush test for Equipment Containing coin / button cell batteries Clause- 4.8.4.6	IEC 62368-1:2018 (Ed 3.0)
		Compliance Criteria (Force Test) Clause- 4.8.5	IEC 62368-1:2018 (Ed 3.0)
		Classification and limits of electrical energy sources (Measurement of Steady state voltage and current limits, Capacitance limits) Clause- 5.2	IEC 62368-1:2018 (Ed 3.0)
		Accessibility to Electrical Energy Sources and Safeguards Clause- 5.3.2	IEC 62368-1:2018 (Ed 3.0)
		Terminals for Connecting Stripped wires Clause- 5.3.2.4	IEC 62368-1:2018 (Ed 3.0)



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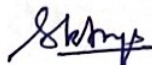
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Page 5 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Maximum operating Temperature. (Temperature Measurement Test) Clause- 5.4.1.4	IEC 62368-1:2018 (Ed 3.0)
		Test for pollution degree 1 environment and for insulating compound (Thermal Cycling Test, Electric strength test) Clause- 5.4.1.5.2	IEC 62368-1:2018 (Ed 3.0)
		Measurement of working voltage Clause- 5.4.1.8	IEC 62368-1:2018 (Ed 3.0)
		Vicat Test Clause- 5.4.1.10.2	IEC 62368-1:2018 (Ed 3.0)
		Ball Pressure Test Clause- 5.4.1.10.3	IEC 62368-1:2018 (Ed 3.0)
		Measurement of Clearance & Creepage distances Clause- 5.4.2 & 5.4.3	IEC 62368-1:2018 (Ed 3.0)



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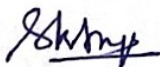
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Page 6 of 15

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Solid insulation (Measurement of distance through insulation, electric strength test) Clause- 5.4.4	IEC 62368-1:2018 (Ed 3.0)
		Standard test procedure for non-separable thin sheet material (Electric strength test) Clause- 5.4.4.6.4	IEC 62368-1:2018 (Ed 3.0)
		Mandrel Test Clause- 5.4.4.6.5	IEC 62368-1:2018 (Ed 3.0)
		Antenna terminal insulation (Surge, Insulation resistance test) Clause- 5.4.5	IEC 62368-1:2018 (Ed 3.0)
		Humidity conditioning Clause- 5.4.8	IEC 62368-1:2018 (Ed 3.0)
		Test for Separation between external circuits and earth Clause- 5.4.11	IEC 62368-1:2018 (Ed 3.0)



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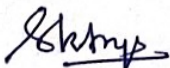
Certificate Number: TEC/MRA/CAB/IND-D/31-II

Page 7 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Capacitor discharge after disconnection of connector (Capacitor discharge test) Clause- 5.5.2.2	IEC 62368-1:2018 (Ed 3.0)
		Insulation between the mains and an external circuit consisting of a coaxial cable. (Voltage surge, Impulse, IR test) Clause- 5.5.8	IEC 62368-1:2018 (Ed 3.0)
		Resistance of the Protective Bonding System (Earth bond test) Clause- 5.6.6	IEC 62368-1:2018 (Ed 3.0)
		Prospective touch voltage, touch current and protective conductor current (Measurement of touch current and protective conductor current) Clause- 5.7	IEC 62368-1:2018 (Ed 3.0)



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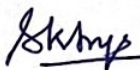
Certificate Number: TEC/MRA/CAB/IND-D/31-II

Page 8 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Classification of power sources(PS) and potential ignition sources (PIS) (Measurement of power in output circuits) Clause-6.2	IEC 62368-1:2018 (Ed 3.0)
		Safeguard against fire under normal operating conditions and abnormal conditions (Glow wire test) Clause-6.3	IEC 62368-1:2018 (Ed 3.0)
		Measurement of Bottom openings (Needle flame test) Clause-6.4.8.3.4	IEC 62368-1:2018 (Ed 3.0)
		Separation of a PIS from a fire enclosure and a fire barrier (Needle flame test) Clause-6.4.8.4	IEC 62368-1:2018 (Ed 3.0)



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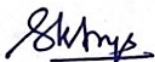
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Page 9 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Requirements for interconnection to building wiring (Limited power source test) Clause-6.5.2	IEC 62368-1:2018 (Ed 3.0)
		Equipment having an electromechanical device for destruction of media (Force test) Clause-8.5.4.3	IEC 62368-1:2018 (Ed 3.0)
		Static Stability Test Clause-8.6.2.2	IEC 62368-1:2018 (Ed 3.0)
		Downward Force Test Clause-8.6.2.3	IEC 62368-1:2018 (Ed 3.0)
		Relocation Stability Clause-8.6.3	IEC 62368-1:2018 (Ed 3.0)
		Glass slide test Clause-8.6.4	IEC 62368-1:2018 (Ed 3.0)



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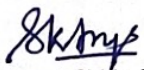
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Page 10 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Horizontal force test and compliance criteria (Stability and Force test) Clause-8.6.5	IEC 62368-1:2018 (Ed 3.0)
		Equipment mounted to wall, ceiling or other structure (Wall or ceiling mount test) Clause-8.7	IEC 62368-1:2018 (Ed 3.0)
		Handle Strength test Clause-8.8	IEC 62368-1:2018 (Ed 3.0)
		Wheels or casters attachment requirement (Pull force test) Clause-8.9	IEC 62368-1:2018 (Ed 3.0)
		Cart, Stand or carrier loading test and compliance criteria (Force test) Clause-8.10.3	IEC 62368-1:2018 (Ed 3.0)
		Cart, stand and carrier impact test (Impact test) Clause-8.10.4	IEC 62368-1:2018 (Ed 3.0)


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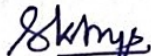
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Page 11 of 15

Validity: 06/04/2022 to 05/04/2025

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Mechanical Stability (Stability and force test) Clause-8.10.5	IEC 62368-1:2018 (Ed 3.0)
		Mounting means for slide-rail mounted equipment (SREM) (Downward force, lateral push force, integrity of slid rail end stop, force test) Clause-8.11	IEC 62368-1:2018 (Ed 3.0)
		Telescoping or rod antennas (Torque test) Clause-8.12	IEC 62368-1:2018 (Ed 3.0)
		Input test Annex B.2.5	IEC 62368-1:2018 (Ed 3.0)
		Simulated abnormal operating conditions (Abnormal Operation test) Annex B.3	IEC 62368-1:2018 (Ed 3.0)



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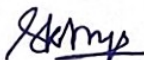
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Page 12 of 15

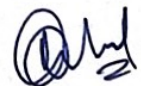
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Simulated single fault conditions test Annex B.4	IEC 62368-1:2018 (Ed 3.0)
		Durability, legibility and performance of marking (Marking durability test) Annex F.3.9	IEC 62368-1:2018 (Ed 3.0)
		Durability, legibility and performance of marking (Marking durability test) Annex F.3.9	IEC 62368-1:2018 (Ed 3.0)
		Motors (Motor overload, running overload, locked-rotor overload test, electric strength test) Annex G.5.4	IEC 62368-1:2018 (Ed 3.0)
		Cord Strain Relief Test Annex G.7.3.2	IEC 62368-1:2018 (Ed 3.0)



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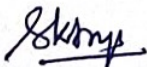
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Page 13 of 15

Validity: 06/04/2022 to 05/04/2025

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	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Non-detachable cord bend protection (Cord guard) Annex G.7.5	IEC 62368-1:2018 (Ed 3.0)
		Stranded wire (Visual inspection) Annex G.7.6.2	IEC 62368-1:2018 (Ed 3.0)
		Criteria for telephone ringing signals (TNV circuit test) Annex- H	IEC 62368-1:2018 (Ed 3.0)
		Limited Power Source test Annex- Q.1	IEC 62368-1:2018 (Ed 3.0)
		Tests for Resistance to heat and fire (Horizontal Vertical Flame test, Needle flame test) Annex- S	IEC 62368-1:2018 (Ed 3.0)
		Steady Force Test 10N Annex- T.2	IEC 62368-1:2018 (Ed 3.0)
		Steady Force Test 30N Annex- T.3	IEC 62368-1:2018 (Ed 3.0)



Director (CA), TEC



AD (CA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s SGS India Private Limited, Bengaluru
No. 38/1 and 38/2, New BBMP, No. 88/45/45,
Beretena Agrahara Begur Hobli, Hosur Main road,
Bengaluru-560 100

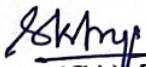
Certificate Number: TEC/MRA/CAB/IND-D/31-II

Page 14 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Steady Force Test 100N Annex- T.4	IEC 62368-1:2018 (Ed 3.0)
		Steady Force Test 250N Annex- T.5	IEC 62368-1:2018 (Ed 3.0)
		Enclosure impact test Annex- T.6	IEC 62368-1:2018 (Ed 3.0)
		Drop Test Annex- T.7	IEC 62368-1:2018 (Ed 3.0)
		Glass Impact test Annex- T.9	IEC 62368-1:2018 (Ed 3.0)
		Glass Fragmentation test Annex- T.10	IEC 62368-1:2018 (Ed 3.0)
		Telescoping or rod antennas (Torque test) Annex- T.11	IEC 62368-1:2018 (Ed 3.0)



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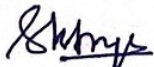
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Page 15 of 15

Validity: 06/04/2022 to 05/04/2025

Last Amended on: _____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Safety Requirements	Accessible part of equipment. Test Method 1-Surface and openings tested with jointed test probes Annex- V.1.2	IEC 62368-1:2018 (Ed 3.0)
		Test Method 2-Openings tested with straight unjointed test probes. Annex- V.1.3	IEC 62368-1:2018 (Ed 3.0)
		Test Method 3- Plugs, Jacks, Connectors Annex- V.1.4	IEC 62368-1:2018 (Ed 3.0)
		Test Method 4- Slot Openings Annex- V.1.5	IEC 62368-1:2018 (Ed 3.0)
		Test Method 5- Terminal intended to be used by an ordinary person Annex- V.1.6	IEC 62368-1:2018 (Ed 3.0)



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