



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 TUV INDIA PVT. LTD., BANGALORE

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

PLOT NO. 105, PEENYA 3RD PHASE, INDUSTRIAL AREA, SY.NO. 90, 92 and 93 PEENYA VILLAGE, YESHWANTHAPURA HOBLI, BENGALURU- 560 058

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/86

Issue Date: 28/11/2023 Validity: 28/11/2023 to 27/11/2026

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

Vijay Dixit Director (CA) For Designating Authority TEC 1/3 141143 Certificate No: TEC/MRA/CAB/IND-D/86 dated 28/11/2023 issued to M/S TUV India Pvt. Ltd., Bangalore

Plot No. 105, Peenya 3rd Phase Industrial area,

Sy.No. 90, 92 and 93 Peenya Village, Yeshwanthapura Hobli,



Bengaluru- 560058

Validity: - 28/11/2023 to 27/11/2026

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 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 TUV India Pvt. Ltd., Bangalore,

Plot No. 105, Peenya 3rd Phase, Industrial Area,

Sy. No. 90, 92 and 93 Peenya Village, Yeshwanthapura Hobli,

Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 1 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Secondary cell sand batteries	Insulation and wiring Clause- 5.2	IEC 62133-2
	(Lithium-ion system)-Safety Requirements	Charging procedures for test purposes (First procedure) Clause- 7.1.1	IEC 62133-2
		Charging procedures for test purposes (Second procedure) Clause- 7.1.2	IEC 62133-2
		Continuous charging at constant voltage (cells) Clause- 7.2.1	IEC 62133-2
		Case stress at high ambient temperature (battery) Clause- 7.2.2	IEC 62133-2
		External short-circuit (cell) Clause 7.3.1	IEC 62133-2
		External short-circuit (Battery) Clause- 7.3.2	IEC 62133-2
		Free fall Clause- 7.3.3	IEC 62133-2
		Thermal abuse (cells) Clause- 7.3.4	IEC 62133-2
		Crush (Cells) Clause- 7.3.5	IEC 62133-2
		Over-charging of battery Clause- 7.3.6	IEC 62133-2

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 2 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Secondary cell sand batteries (Lithium-ion system)-Safety Requirements	Vibration Test Clause- 7.3.8.1	IEC 62133-2
2.	Uninterruptible Power System	Protective Earthing and bonding Clause- 5.3	IEC 62040-1
	(UPS)-General and Safety Requirements	Clearance, Creepage Distance and Distance through Insulation Clause- 5.7	IEC 62040-1
		Connection to Telecommunication Networks Clause- 9	IEC 62040-1
		Electric Strength Clause- 8.2	IEC 62040-1
		General Provisions for Earth Leakage Clause- 8.1	IEC 62040-1
		Mechanical Strength Clause- 7.3	IEC 62040-1
		Over Current and Earth Fault Protection Clause- 5.5.1, 5.5.2	IEC 62040-1
		Power Interfaces Clause- 4.6	IEC 62040-1
		Protection for UPS intended to be used in Operator access areas Clause- 5.1.1	IEC 62040-1

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 3 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power System (UPS)-General and Safety	Protection for UPS intended to be used in Service access area Clause- 5.1.2 Protection for UPS intended to be used in	IEC 62040-1
	requirements	restricted access area Clause- 5.1.3 Backfeed Protection Clause-5.1.4	IEC 62040-1
		Resistance to Fire Clause- 7.5	IEC 62040-1
		Stability Clause- 7.2	IEC 62040-1
		Temperature Rise Clause- 7.7	IEC 62040-1
		Durability of marking Clause- 4.7.16	IEC 62040-1
		Abnormal Operating and Fault Conditions Clause- 8.3	IEC 62040-1
		Construction Details Clause- 7.4	IEC 62040-1
		General provisions for Connection to Power (Cord anchorage and Strain relief) Clause- 6.2.1	IEC 62040-1
		Wiring connections and Supply Clause 6.0	IEC 62040-1

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 4 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power System (UPS)-General	Guidance on Protection against ingress of water and foreign objects Annex- H	IEC 62040-1
	and Safety requirements	Limited Power Source Clause- 5.2.5	IEC 62040-1
		Limited Current Circuits Clause- 5.2.3	IEC 62040-1
		Motor tests under abnormal conditions Annex- B	IEC 62040-1
		Safety extra low voltage-SELV circuit Clause- 5.2.1	IEC 62040-1
		Telephone network voltage circuits-TNV circuit Clause- 5.2.2	IEC 62040-1
		Transformer Annex- C	IEC 62040-1
		Ventilation Clause- 7.6.7	IEC 62040-1
		Wiring terminals for external Power Cond uctors Clause- 6.3	IEC 62040-1
3.	Information Technology	Abnormal Operating and Fault conditions Clause-5.3	IEC 60950-1:2005 +A1:2009+A2:2013
	Equipment	Abrasion Test Clause-2.10.8.4	IEC 60950-1:2005 +A1:2009 +A2:2013

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 5 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Safety Requirement Information Technology Equipment Safety Requirement	Clearance, Creepage distances and distances through insulation Clause-2.10 Design and Construction Clause-4.3 Discharge of Capacitor in Equipment's Clause-2.1.1.7 Drop Test	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005
		Clause-4.2.6 Electric Strength Clause-5.2 Electrical requirements and simulated abnormal conditions Clause-5.1	+A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Materials Clause-4.7.3 Humidity Conditioning Clause-2.9.2 Impulse Test Clause-7.4.3	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Limited Current Circuits Clause- 2.4 Limited Power Sources Clause -2.5 Non- separable thin sheet material (Mandrel Test) Clause-2.10.5.8	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 6 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment Safety Requirement	Marking & Instruction Clause-1.7 Measurement of transient voltage Clause-2.10.3.9 Mechanical Strength Clause-4.2.2	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005
		Mechanical Strength Clause-4.2.3 Mechanical strength Clause-4.2.4	+A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Over-Current and Earth fault Protection in Primary Circuits Clause-2.7 Physical Requirements Stability Clause- 4.1	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Protection against Hazardous Moving Parts Clause-4.4	IEC 60950-1:2005 +A1:2009 +A2:2013
		Protection of equipment users from Over Voltages on Telecommunication networks Clause-6.2 Protection of the Telecommunication Wiring System from overheating	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Clause-6.3 Provision for Earthing and Bonding Clause-2.6	IEC 60950-1:2005 +A1:2009 +A2:2013

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 7 of 23

No. E	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
Te Ec Sa	nformation dechnology equipment afety dequirement	Resistance to Abnormal Heat Clause-4.5.5 Resistance to Fire Clause-4.7 Power Interface Clause-1.6.2 SELV Circuits Clause-2.2 Stress Relief Test Clause-4.2.7 Termination of Conductors Clause-3.1.9 Thermal Requirements Clause-4.5 TNV Circuits Clause-2.3 Voltage Surge Test Clause-7.4.2 Protection From Hazards Clause-2.1 Wiring terminals for Connection of External Conductors Clause-3.3 Interconnection of Equipment Clause-3.5 Electrical requirements and simulated abnormal conditions	IEC 60950-1:2005 +A1:2009 +A2:2013
		Clause- 2.1 Wiring terminals for Connection of External Conductors Clause-3.3 Interconnection of Equipment Clause-3.5 Electrical requirements and simulated	+A1:2009 +A2 IEC 60950-1:2 +A1:2009 +A2 IEC 60950-1:2 +A1:2009 +A2 IEC 60950-1:2

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 8 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment Safety Requirement	Physical Requirements Stability Clause-4.0 Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment Clause-6.1	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Wiring Connection and Supply Clause-3.0 Opening in Enclosure Clause-4.6 Connection to an a. c. mains Supply Clause-3.2.1.1 Connection to a d. c. mains Supply Clause-3.2.1.2	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013
		Appliance Inlets Clause-3.2.4 Safety Interlocks Clause-2.8 Disconnection from the Mains Supply Clause-3.4 Grade of Insulation Clause- 2.9.3 Impact Test Clause-4.2.5 Interconnected Equipment Clause-3.4.10	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 9 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
No.		Multiple Power Sources Clause-3.4.11 Number of Poles - Single-Phase and d. c. Equipment Clause-3.4.6 Number of Poles Three-Phase Equipment Clause-3.4.7 Parts which remain energized Clause-3.4.4 Permanently Connected Equipment Clause-3.4.3 Plugs as Disconnect Devices Clause-3.4.9 Properties of Insulating Materials	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005
		Clause-2.9.1 Connection to Cable Distribution Systems Clause-7 Wall or Ceiling mounted Equipment Clause-4.2.10 Connection to Telecommunication Networks Clause- 6 Electrical Insulation Clause-2.9 Mechanical Strength Clause-4.2 Cord anchorages and Strain Relief Clause-3.2.6	+A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013

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Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		
	Information	Protection against Mechanical Damage	IEC 60950-1:2005
	Technology	Clause-3.2.7	+A1:2009 +A2:2013
	Equipment	Cord Guards	IEC 60950-1:2005
	Safety	Clause-3.2.8	+A1:2009 +A2:2013
	Requirement	AC Power Supply Cords	IEC 60950-1:2005
		Clause-3.2.5.1	+A1:2009 +A2:2013
		DC power Supply Cords	IEC 60950-1:2005
		Clause-3.2.5.2	+A1:2009 +A2:2013
		Doors or Covers in Fire Enclosures	IEC 60950-1:2005
		Clause-4.6.3	+A1:2009 +A2:2013
		Evaluation measures for larger Openings	IEC 60950-1:2005
		Clause-4.6.4.2	+A1:2009 +A2:2013
		Grade of Insulation	IEC 60950-1:2005
		Clause- 2.9.3	+A1:2009 +A2:2013
		Inadvertent Reactivation	IEC 60950-1:2005
		Clause-2.8.3	+A1:2009 +A2:2013
		Openings in Transportable Equipment	IEC 60950-1:2005
		Clause-4.6.4	+A1:2009 +A2:2013
		Permanently Connected Equipment	IEC 60950-1:2005
		Clause-3.2.3	+A1:2009 +A2:2013
		Switches and Relays	IEC 60950-1:2005
		Clause-2.8.7	+A1:2009 +A2:2013
		Separation from Hazardous Voltages	IEC 60950-1:2005
		Clause-2.9.4	+A1:2009 +A2:2013
		Supply Wiring Space	IEC 60950-1:2005
		Clause-3.2.9	+A1:2009 +A2:2013

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment Safety Requirement	Switches in Flexible Cords Clause-3.4.5 Use of Metallized Parts Clause-4.6.4.3 Top and Side Openings Clause-4.6.1 Switches as Disconnect Devices Clause-3.4.8 Multiple Supply Connections Clause-3.2.2 Mechanical Actuators Clause-2.8.8 Power Supply Cords	IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 IEC 60950-1:2005
4.	Standard for Environmental Testing of Telecommunicati on Equipment	Clause-3.2.5 Low Temperature (Cold) Test (Test No. 1) High Temperature (Dry Heat) (Test No. 2) Tropical Exposure (Damp Heat Cyclic) Test (Test No. 3) Rapid Temperature Cycling Test (Test No. 4) Damp Heat (Steady State) Test (Test No. 5)	+A1:2009 +A2:2013 QM-333 Issue March 2010

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 12 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		Vibration Test (Test No. 6)	QM-333 Issue March 2010
5.	Audio/Video, Information and Communication	Accessibility to Electrical Energy Sources and Safeguards (Measurement of air gap) Clause-5.3.2	IEC 62368-1
	Technology Equipment- Safety	Antenna Terminal insulation (High voltage test / Insulation Resistance Test) Clause-5.4.5.3	IEC 62368-1
	Requirements	Antenna Terminal insulation (Antenna Surge Test) Clause-5.4.5	IEC 62368-1
		Ball Pressure Test Clause-5.4.1.10.3	IEC 62368-1
		Battery replacement Test (Torque Test) Clause-4.8.4.3	IEC 62368-1
		Capacitance Limits (Verification Test) Clause-5.2.2.3	IEC 62368-1
		Capacitor discharge after disconnection of a Connector Cl ause-5.5.2.2	IEC 62368-1
		Cart, Stand or Carrier Impact Test (Impact test) Clause-8.10.4	IEC 62368-1
		Carts, Stands and Similar Carriers (Force Test) Clause-8.10.3	IEC 62368-1
		Classification of Potential ignition Sources Clause-6.2.3	IEC 62368-1

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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 TUV India Pvt. Ltd., Bangalore,

Plot No. 105, Peenya 3rd Phase, Industrial Area,

Sy. No. 90, 92 and 93 Peenya Village, Yeshwanthapura Hobli,

Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 13 of 23

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		1
	1		l
	Audio/Video,	Cord Anchorage & Strain relief for non -	IEC 62368-1
	Information and	detachable Power Supply cord	
	Communication	Clause-Annex G.7.3	
	Technology	Clearance, Creepage distances and	IEC 62368-1
	Equipment-	distances through insulation	
	Safety	Clause-5.4.3	
	Requirements	Criteria for telephone ringing signals (TNV Circuit Test)	IEC 62368-1
		Clause-Annex-H	WG (22 (0.1
		Crush Test (Force Test)	IEC 62368-1
		Clause-4.8.4.6	WG (22 (0.1
		Determination of transient voltage level by	IEC 62368-1
		measurements (Impulse test)	
		Clause-5.4.2.3.2.5	WG (22 (0.1
		Drop Test	IEC 62368-1
		Clause-4.4.3.3	WG (22 (0.1
		Drop Test	IEC 62368-1
		Clause-4.8.4.4	WG (226) 1
		Electric Strength Test	IEC 62368-1
		Clause-5.4.9	WG (22 (0.1
		Equipment containing Coin/button cell	IEC 62368-1
		batteries	
		Clause-4.8	IEC (22(0.1
		Equipment for direct insertion into mains socket-outlets (Plug & socket test) Clause-4.7	IEC 62368-1
		Fixing of conductors (Steady Force Test) Clause-4.6	IEC 62368-1

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 14 of 23

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		
		1	
	Audio/Video,	Glass fragmentation Test	IEC 62368-1
	Information and	Clause-Annex T.10	
	Communication	Glass Impact Test	IEC 62368-1
	Technology	Clause-4.4.3.6	
	Equipment-	Glass Slide Test (Stability Test)	IEC 62368-1
	Safety	Clause-8.6.4	
	Requirements	Handle Strength	IEC 62368-1
		Clause-8.8	
		Horizontal Force test and Compliance	IEC 62368-1
		Criteria (Stability Test)	
		Clause-8.6.5	
		Humidity Conditioning	IEC 62368-1
		Clause-5.4.8	
		IC that includes a capacitor discharge	IEC 62368-1
		function (ICX)	
		(Humidity Test, Impulse Test)	
		Clause-Annex G.16	
		Impact test	IEC 62368-1
		Clause-4.4.3.4	
		Impact Test	IEC 62368-1
		Clause-4.8.4.5	
		Impact Test	IEC 62368-1
		Clause-Annex T.6	
		Impulse Test	IEC 62368-1
		Clause-Annex G.10.5	
		Impulse Test	IEC 62368-1
		Clause-5.4.10.2.2	

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Laboratory Name: M/s TUV India Pvt. Ltd., Bangalore,

Plot No. 105, Peenya 3rd Phase, Industrial Area,

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 15 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
		T	
	Audio/Video,	Impulse Test generator	IEC 62368-1
	Information and	Clause-Annex D.1	
	Communication	Input Test	IEC 62368-1
	Technology	Clause-Annex B.2.5	
	Equipment-	Insulation in circuits generating starting	IEC 62368-1
	Safety	pulses (Clearance & Creepage test)	
	Requirements	Clause-5.4.1.7	
		Insulation of internal wire as a part of a supplementary safeguard (Compliance by High voltage Test) Clause-5.4.6	IEC 62368-1
		Internal accessible safeguard test (Steady	IEC 62368-1
		Force Test of 30 N)	IEC 02308-1
		Clause-4.4.3.5	
		Internal accessible safeguard test (Steady Force Test of 30 N) Clause-Annex T.3	IEC 62368-1
		Limits of repetitive Pulse (Touch Current) Clause-5.2.2.5	IEC 62368-1
		Maximum operating temperatures for Materials, Components and Systems (Heating Test) Clause-5.4.1.4	IEC 62368-1
		Mounting means for Slide-rail mounting equipment (SMRE) (Mounting withstand Test) Clause-8.11	IEC 62368-1

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 16 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment- Safety Requirements	Procedure 1 for Determine clearance (Clearance Test) Clause-5.4.2.2 Procedure 2 for Determine clearance (Clearance Test) Clause-5.4.2.3 Protective Source Circuit Classification	IEC 62368-1 IEC 62368-1
		(Limited Power Source Test) Clause-6.2.2 Resistance of the Protective bonding System (Protective bonding Test) Clause-5.6.6 Resistive PIS (Determination) Clause-6.2.3.2	IEC 62368-1
		Resistors conditioning (Damp Heat Test) Clause-Annex G.10.2 Safety Interlock Clause-4.4.5	IEC 62368-1 IEC 62368-1
		Single Pulse Limits (Verification only) Clause-5.2.2.4 Solid Insulation Clause-5.4.4	IEC 62368-1
		Steady Force Test Clause-Annex T.5 Steady State Voltage and Current Limits (Verification only) Clause-5.2.2.2	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 17 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and	Stress Relief Test Clause-Annex T.8	IEC 62368-1
	Communication Technology	Telescoping or rod antennas Clause-8.12, AnnexT.11	IEC 62368-1
	Equipment- Safety	Terminals for Connecting Stripped Wire (Verification)	IEC 62368-1
	Requirements	Clause-5.3.2.4 Test for Semiconductor Components and for Cementing Joints (Thermal Cycling Test) Clause-5.4.7	IEC 62368-1
		Test for Semiconductor Components and for Cementing Joints (Thermal Cycling Test) Clause-5.4.1.5.3	IEC 62368-1
		Tests on Coated Printed Boards (Test method & Compliance Criteria) Clause-Annex G.13.6	IEC 62368-1
		Thermal burn injury Clause-9	IEC 62368-1
		Thermoplastic Material Tests (Stress Relief Test) Clause-4.4.3.8	IEC 62368-1
		Thermoplastic Material Tests (Stress Relief Test) Clause-4.8.4.2	IEC 62368-1
		Thin Sheet Material (Mandrel Test) Clause-5.4.4.6	IEC 62368-1

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 18 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video,	Mandrel Test	IEC 62368-1
	Information and	Clause-5.4.4.6.5	
	Communication	Transformers (Thermal Cycling test &	IEC 62368-1
	Technology	Compliance)	
	Equipment-	Clause-5.5.3	
	Safety	Transformers with basic, Double &	IEC 62368-1
	Requirements	reinforced insulation	
		Clause-5.5.3	
		Transformers Overload Test	IEC 62368-1
		Clause-5.5.3	
		Transformers (Thermal Cycling Test &	IEC 62368-1
		Compliance)	
		Clause-Annex G.5.3.4.5	
		Transformers Overload Test	IEC 62368-1
		Clause-Annex G.5.3.3	
		Transformers with basic, Double &	IEC 62368-1
		reinforced insulation	
		Clause-Annex G.5.3.4.2	
		Transformers with basic, Double &	IEC 62368-1
		reinforced insulation	
		Clause-Annex G.5.3.4.3	
		Vicat Test	IEC 62368-1
		Clause-5.4.1.10.2	
		Voltage Surge Test	IEC 62368-1
		Clause-Annex G.10.4	
		Limited Power Source	IEC 62368-1
		Clause-Annex Q.1	

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 19 of 23

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/	- J. P. C S J. P. C S S S S S S S.	Specification
	Product		•
	1		1
	Audio/Video,	Clearance, Creepage distances and	IEC 62368-1
	Information and	distances through insulation	
	Communication	Clause-5.4.2	
	Technology	Accessibility to Electrical Energy Sources	IEC 62368-1
	Equipment-	and Safeguards	
	Safety	(Measurement of air gap)	
	Requirements	Clause- 5.3.2	
		Clearance, Creepage distances and	IEC 62368-1
		distances through insulation	
		Clause- 5.4.3	
		Clearance, Creepage distances and	IEC 62368-1
		distances through insulation	
		Clause- 5.4.4	
		Safeguard against Fire under Single Fault	IEC 62368-1
		Conditions (Verification)	
		Clause- 6.4	
		Protection From Hazards	IEC 62368-1
		Annex-V	
		Drop Test	IEC 62368-1
		Clause-Annex T.7	
		Electrically Caused Injury (Verification)	IEC 62368-1
		Clause-5	
		Glass Impact Test	IEC 62368-1
		Clause-Annex T.9	
		Marking & Instruction	IEC 62368-1
		Clause-8.10.2	
		Comparative Tracking Index	IEC 62368-1
		Clause-5.4.3.3	

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s TUV India Pvt. Ltd., Bangalore,

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 20 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication	Insulation materials and requirements (High Voltage Compliance Criteria) Clause-5.4.1.3	IEC 62368-1
	Technology Equipment- Safety	Internal & External Wiring (Verification of mains supply cords) Clause- 6.5	
	Requirements	Wiring Connection and Supply Clause-Annex G.7 Mechanically- caused injury (Verification)	IEC 62368-1 IEC 62368-1
		Clause-8 Prospective Touch Voltage, Touch Current and Protective Conductor Current (Touch Current Test) Clause-5.7	IEC 62368-1
		Accessibility to electrical Energy Sources and Safeguards (Measurement of air gap) Clause-5.3.2	IEC 62368-1
		Determination of working Voltages Clause-5.4.1.8	IEC 62368-1
		Separation between External Circuits and Earth Clause-5.4.11	IEC 62368-1
		Safeguard against Fire under normal Operating Conditions and abnormal Operating Conditions (Glow Wire Test) Clause-6.3.1	IEC 62368-1

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 21 of 23

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		•
	Audio/Video,	Safeguard against Fire under Single Fault	IEC 62368-1
	Information and	Conditions (Verification)	
	Communication	Clause-6.4	
	Technology	Protection against Hazardous Moving	IEC 62368-1
	Equipment-	Parts	
	Safety	Clause-8.5	
	Requirements	Impulse Test	IEC 62368-1
		Clause-5.4.10.2.2	
		Steady State Test	IEC 62368-1
		Clause-5.4.10.2.3	
		Safety Interlock	IEC 62368-1
		Clause-Annex K	
		Fire Enclosure and Fire barriers Test	IEC 62368-1
		Clause-6.4.8	
		Safeguard against Fire under Single Fault	IEC 62368-1
		Conditions (Verification)	
		(Clause- 6.4)	
		Abnormal Operating and Fault conditions	IEC 62368-1
		Clause- Annex B.3	
		Solid Insulation	IEC 62368-1
		(Clause-5.4.4)	
		Fixing of Conductors (Steady Force Test)	IEC 62368-1
		(Clause-Annex T.2)	
		Steady Force Test	IEC 62368-1
		(Clause-Annex T.4)	
		Cord Anchorage & Strain relief for non -	IEC 62368-1
		detachable Power Supply Cord	
		Clause- G.7.3	

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Bengaluru-560 058

Certificate Number: TEC/MRA/CAB/IND-D/86 Page 22 of 23

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		
		T.	
	Audio/Video,	Wiring terminals for connection of	IEC 62368-1
	Information and	External Conductors	
	Communication	Clause-Annex G.7.6	
	Technology	Abnormal Operating and Fault Conditions	IEC 62368-1
	Equipment-	Clause- B.4	
	Safety	Impulse Test Generator	IEC 62368-1
	Requirements	Annex- D.1	
	_	Wheel or Casters attachment requirements	IEC 62368-1
		Clause-8.9	
		Handle Strength	IEC 62368-1
		Clause-8.8	
		Relocation Stability (Stability Test)	IEC 62368-1
		Clause-8.6.3	
		Equipment mounting to a Wall, Ceiling or	IEC 62368-1
		Other Structure (Wall Mounting Test)	
		Clause-8.7	
		Static Stability (Stability Test)	IEC 62368-1
		Clause-8.6.2	
		Electric Strength Test	IEC 62368-1
		Clause- 5.4.9	
		Thermal Requirements	IEC 62368-1
		Clause-9.3	
		Special category of Equipment's	IEC 62368-1
		containing Moving Parts (Verification	
		only)	
		Clause-8.5.4	

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Certificate Number: TEC/MRA/CAB/IND-D/86 Page 23 of 23

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
6.	Electromagnetic Compatibility Standard for telecommunication	Conducted Emission Test CISPR 11 Conducted Emission Test CISPR 32	TEC/SD/DD/EMC- 221/05/OCT-16 TEC/SD/DD/EMC- 221/05/OCT-16
	Equipment	Conducted Emission Test- Electrical Appliances CISPR 14-1 Immunity to AC Voltage Dips and Short Interruptions	TEC/SD/DD/EMC- 221/05/OCT-16 TEC/SD/DD/EMC- 221/05/OCT-16
		IEC:61000-4-11 Immunity to DC Voltage Dips and Short Interruptions IEC:61000-4-29	TEC/SD/DD/EMC- 221/05/OCT-16
		Immunity to Electrostatic Discharge IEC:61000-4-2 Immunity to Fast Transients (Burst) IEC:61000-4-4	TEC/SD/DD/EMC- 221/05/OCT-16 TEC/SD/DD/EMC- 221/05/OCT-16
		Immunity to RF Field Induced Conducted Disturbance IEC:61000-4-6 Immunity to Surges IEC:61000-4-5	TEC/SD/DD/EMC- 221/05/OCT-16 TEC/SD/DD/EMC- 221/05/OCT-16

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