



**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 SWASTIK ELECTRONICS TESTING CENTRE (OPC)
PRIVATE LIMITED**

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

**PLOT NO-16, MAINAPUR INDUSTRIAL AREA, Uttar Pradesh,
GHAZIABAD - 201 003**

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/103

Issue Date: 02/12/2024

Validity: 02/12/2024 to 01/12/2027

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**

**Certificate No: TEC/MRA/CAB/IND-D/103 dated 02/12/2024 issued to
M/s Swastik Electronics Testing Centre (OPC)
Private Limited, Ghaziabad
Plot No-16, Mainapur Industrial Area, Uttar Pradesh,
Ghaziabad - 201 003**



Validity: 02/12/2024 to 01/12/2027

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

SCOPE OF DESIGNATION

(ANNEXURE)

Laboratory Name: M/s Swastik Electronics Testing Centre (OPC)
Private Limited, Ghaziabad
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Validity: 02/12/2024 to 01/12/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
1.	Information Technology Equipment-Safety Requirements	Power Interface Clause-1.6	IEC 60950-1
		Marking and Instructions Clause- 1.7	IEC 60950-1
		Protection from Electric Shock and Energy Hazards Clause-2.1	IEC 60950-1
		Protection in Operator Access areas Clause- 2.1.1	IEC 60950-1
		Access to Energized Parts Clause-2.1.1.1	IEC 60950-1
		Battery Compartments Clause-2.1.1.2	IEC 60950-1
		Access to ELV Wiring Clause-2.1.1.3	IEC 60950-1
		Access to Hazardous Voltage Circuit Wiring Clause-2.1.1.4	IEC 60950-1
		Energy Hazards Clause-2.1.1.5	IEC 60950-1
		Manual Controls Clause-2.1.1.6	IEC 60950-1
		Discharge of Capacitors in Equipment Clause- 2.1.1.7	IEC 60950-1
		Energy Hazards-d. c. main Supplies Clause- 2.1.1.8	IEC 60950-1
		Audio Amplifiers in Information Technology Equipment Clause-2.1.1.9	IEC 60950-1
		Protection in Service Access Areas Clause- 2.1.2	IEC 60950-1

***The validity of Certificate is up to 01/12/2027 or the continued validity of NABL Accreditation, whichever is earlier.**

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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Protection in Restricted Access Locations Clause-2.1.3	IEC 60950-1
		SELV Circuit Clause- 2.2	IEC 60950-1
		Voltage under Normal Conditions Clause-2.2.2	IEC 60950-1
		Voltage under Fault Conditions Clause- 2.2.3	IEC 60950-1
		Connection of SELV Circuits to Other Circuits Clause-2.2.4	IEC 60950-1
		TNV Circuit Clause- 2.3	IEC 60950-1
		Limits Clause-2.3.1	IEC 60950-1
		Separation of TNV Circuits from Other Circuits and from Accessible Parts Clause-2.3.2	IEC 60950-1
		Protection by Basic Insulation Clause- 2.3.2.2	IEC 60950-1
		Protection by Earthing Clause-2.3.2.3	IEC 60950-1
		Protection by Other Constructions Clause- 2.3.2.4	IEC 60950-1
		Separation from Hazardous Voltages Clause-2.3.3	IEC 60950-1
		Connection of TNV circuits to Other Circuits Clause-2.3.4	IEC 60950-1
		Test for Operating Voltages generated Externally Clause-2.3.5	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Limited Currents Clause-2.4	IEC 60950-1
		Limit Values Clause- 2.4.2	IEC 60950-1
		Connection of Limited Current Circuits to Other Circuits Clause-2.4.3	IEC 60950-1
		Limited Power Sources Clause-2.5	IEC 60950-1
		Provisions for Earthing and Bonding Clause-2.6	IEC 60950-1
		Protective Earthing Clause-2.6.1	IEC 60950-1
		Functional Earthing Clause-2.6.2	IEC 60950-1
		Protective Earthing Conductors and Protective Bonding Conductors Clause- 2.6.3	IEC 60950-1
		Size of Protective Earthing Conductors Clause-2.6.3.2	IEC 60950-1
		Size of Protective Bonding Conductors Clause-2.6.3.3	IEC 60950-1
		Resistance of Earthing Conductors and their Terminations Clause- 2.6.3.4	IEC 60950-1
		Colour of Insulation Clause- 2.6.3.5	IEC 60950-1
		Terminals Clause- 2.6.4	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Protective Earthing and Bonding Terminals Clause-2.6.4.2	IEC 60950-1
		Separation of the Protective Earthing Conductor from Protective Bonding Conductors Clause-2.6.4.3	IEC 60950-1
		Integrity of Protective Earthing Clause-2.6.5	IEC 60950-1
		Interconnection of Equipment Clause-2.6.5.1	IEC 60950-1
		Components in Protective Earthing Conductors and Protective Bonding Conductors Clause- 2.6.5.2	IEC 60950-1
		Disconnection of Protective Earth Clause-2.6.5.3	IEC 60950-1
		Parts that can be removed by an Operator Clause- 2.6.5.4	IEC 60950-1
		Parts removed during Servicing Clause- 2.6.5.5	IEC 60950-1
		Corrosion Resistance Clause-2.6.5.6	IEC 60950-1
		Screws for Protective Bonding Clause-2.6.5.7	IEC 60950-1
		Reliance on Telecommunication Network or Cable Distribution System Clause-2.6.5.8	IEC 60950-1
		Over Current and Earth Fault Protection in Primary Circuits Clause-2.7	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Basic Requirements Clause-2.7.1	IEC 60950-1
		Short-Circuit Backup Protection Clause-2.7.3	IEC 60950-1
		Number and Location of Protective Devices Clause-2.7.4	IEC 60950-1
		Protection by Several Devices Clause-2.7.5	IEC 60950-1
		Warning to Service Persons Clause-2.7.6	IEC 60950-1
		Safety Interlocks Clause-2.8	IEC 60950-1
		General Principles Clause-2.8.1	IEC 60950-1
		Protection Requirements Clause- 2.8.2	IEC 60950-1
		Inadvertent Reactivation Clause- 2.8.3	IEC 60950-1
		Fail-Safe Operation Clause-2.8.4	IEC 60950-1
		Overriding Clause- 2.8.6	IEC 60950-1
		Mechanical Actuators Clause-2.8.8	IEC 60950-1
		Electrical Insulation Clause-2.9	IEC 60950-1
		Properties of Insulating Materials Clause-2.9.1	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Humidity Conditioning Clause-2.9.2	IEC 60950-1
		Grade of Insulation Clause-2.9.3	IEC 60950-1
		Separation from Hazardous Voltages Clause-2.9.4	IEC 60950-1
		Clearances, Creepage Distances and Distances through Insulation Clause-2.10	IEC 60950-1
		Frequency Clause- 2.10.1.1	IEC 60950-1
		Pollution Degrees Clause-2.10.1.2	IEC 60950-1
		Reduced Values for Functional Insulation Clause-2.10.1.3	IEC 60950-1
		Intervening Unconnected Conductive Parts Clause-2.10.1.4	IEC 60950-1
		Insulation with Varying Dimensions Clause-2.10.1.5	IEC 60950-1
		Special Separation Requirements Clause- 2.10.1.6	IEC 60950-1
		Insulation in Circuits generating Starting Pulses Clause- 2.10.1.7	IEC 60950-1
		Determination of Working Voltage Clause-2.10.2	IEC 60950-1
		RMS Working Voltage Clause-2.10.2.2	IEC 60950-1
		Peak Working Voltage Clause-2.10.2.3	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Clearances Clause- 2.10.3	IEC 60950-1
		Mains Transient Voltages Clause- 2.10.3.2	IEC 60950-1
		Clearances in Primary Circuits Clause- 2.10.3.3	IEC 60950-1
		Clearances in Secondary Circuits Clause-2.10.3.4	IEC 60950-1
		Clearances in Circuits having Starting Pulses Clause-2.10.3.5	IEC 60950-1
		Transients from an a.c. mains supply Clause-2.10.3.6	IEC 60950-1
		Transients from a d.c. mains Supply Clause- 2.10.3.7	IEC 60950-1
		Transients from Telecommunication Networks and Cable Distribution Systems Clause-2.10.3.8	IEC 60950-1
		Measurement of Transient Voltages Clause-2.10.3.9	IEC 60950-1
		Creepage Distances Clause-2.10.4	IEC 60950-1
		Material Group and Comparative Tracking Index Clause-2.10.4.2	IEC 60950-1
		Minimum Creepage Distances Clause- 2.10.4.3	IEC 60950-1
		Solid Insulation Clause-2.10.5	IEC 60950-1
		Distances through Insulation Clause-2.10.5.2	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Insulating Compound as Solid Insulation Clause-2.10.5.3	IEC 60950-1
		Semiconductor Devices Clause-2.10.5.4	IEC 60950-1
		Cemented Joints Clause-2.10.5.5	IEC 60950-1
		Thin Sheet Material- General Clause-2.10.5.6	IEC 60950-1
		Separable Thin Sheet Material Clause- 2.10.5.7	IEC 60950-1
		Non-Separable Thin Sheet Material Clause-2.10.5.8	IEC 60950-1
		Thin Sheet Material- Standard Test Procedure Clause- 2.10.5.9	IEC 60950-1
		Thin Sheet Material- Alternative Test Procedure Clause- 2.10.5.10	IEC 60950-1
		Insulation in Wound Components Clause- 2.10.5.11	IEC 60950-1
		Wire in Wound Components Clause-2.10.5.12	IEC 60950-1
		Additional Insulation in Wound Components Clause-2.10.5.14	IEC 60950-1
		Construction of Printed Boards Clause-2.10.6	IEC 60950-1
		Uncoated Printed Boards Clause- 2.10.6.1	IEC 60950-1
		Coated Printed Boards Clause-2.10.6.2	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Insulation between Conductors on the Same Inner Surface of a Printed Board Clause- 2.10.6.3	IEC 60950-1
		Insulation between Conductors on different Surfaces of a Printed Board Clause-2.10.6.4	IEC 60950-1
		Component External Terminations Clause- 2.10.7	IEC 60950-1
		Tests on Coated Printed Boards and Coated Components Clause-2.10.8	IEC 60950-1
		Sample Preparation and Preliminary Inspection Clause-2.10.8.1	IEC 60950-1
		Thermal Conditioning Clause-2.10.8.2	IEC 60950-1
		Electric Strength Test Clause-2.10.8.3	IEC 60950-1
		Abrasion Resistance Test Clause-2.10.8.4	IEC 60950-1
		Thermal Cycling Clause-2.10.9	IEC 60950-1
		Test for Pollution Degree I Environment and for Insulating Compound Clause- 2.10.10	IEC 60950-1
		Tests for Semi Conductor Devices and for Cemented Joints Clause-2.10.11	IEC 60950-1
		Enclosed and Sealed Parts Clause-2.10.12	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Wiring, Connections and Supply Clause-3	IEC 60950-1
		Current Rating and Over Current Protection Clause-3.1.1	IEC 60950-1
		Protection against Mechanical Damage Clause-3.1.2	IEC 60950-1
		Securing of Internal Wiring Clause-3.1.3	IEC 60950-1
		Insulation of Conductors Clause-3.1.4	IEC 60950-1
		Beads and Ceramic Insulators Clause- 3.1.5	IEC 60950-1
		Screws for Electrical Contact Pressure Clause-3.1.6	IEC 60950-1
		Insulating Materials in Electrical Connections Clause-3.1.7	IEC 60950-1
		Self-Tapping and Spaced Thread Screws Clause-3.1.8	IEC 60950-1
		Termination of Conductors Clause-3.1.9	IEC 60950-1
		Sleeving on Wiring Clause-3.1.10	IEC 60950-1
		Connection to a Mains Supply Clause-3.2	IEC 60950-1
		Connection to an a.c. Mains Supply Clause-3.2.1.1	IEC 60950-1
		Connection to a d.c. Mains Supply Clause-3.2.1.2	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Multiple Supply Connections Clause- 3.2.2	IEC 60950-1
		Permanently Connected Equipment Clause-3.2.3	IEC 60950-1
		Appliance Inlets Clause-3.2.4	IEC 60950-1
		Power Supply Cords Clause-3.2.5	IEC 60950-1
		AC Power Supply Cords Clause-3.2.5.1	IEC 60950-1
		DC Power Supply Cords Clause-3.2.5.2	IEC 60950-1
		Cord Anchorages and Strain Relief Clause-3.2.6	IEC 60950-1
		Protection against Mechanical Damage Clause-3.2.7	IEC 60950-1
		Cord Guards Clause- 3.2.8	IEC 60950-1
		Supply Wiring Space Clause-3.2.9	IEC 60950-1
		Wiring Terminals for Connection of External Conductors Clause- 3.3	IEC 60950-1
		Wiring Terminals Clause-3.3.1	IEC 60950-1
		Connection of Non- detachable Power Supply Cords Clause-3.3.2	IEC 60950-1
		Screw Terminals Clause-3.3.3	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Conductor Sizes to be Connected Clause- 3.3.4	IEC 60950-1
		Wiring Terminal Sizes Clause-3.3.5	IEC 60950-1
		Wiring Terminal Design Clause-3.3.6	IEC 60950-1
		Grouping of Wiring Terminals Clause- 3.3.7	IEC 60950-1
		Stranded Wire Clause- 3.3.8	IEC 60950-1
		Disconnection from the Mains Supply Clause-3.4	IEC 60950-1
		Disconnect Devices Clause-3.4.2	IEC 60950-1
		Permanently Connected Equipment Clause-3.4.3	IEC 60950-1
		Parts which remain Energized Clause- 3.4.4	IEC 60950-1
		Switches in Flexible Cords Clause-3.4.5	IEC 60950-1
		Number of Poles -Single-Phase and d.c. Equipment Clause-3.4.6	IEC 60950-1
		Number of Poles- Three Phase Equipment Clause-3.4.7	IEC 60950-1
		Switches as Disconnect Devices Clause-3.4.8	IEC 60950-1
		Plugs as Disconnect Devices Clause-3.4.9	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Interconnected Equipment Clause-3.4.10	IEC 60950-1
		Multiple Power Sources Clause-3.4.11	IEC 60950-1
		Interconnection of Equipment Clause- 3.5	IEC 60950-1
		Types of Interconnection Circuits Clause-3.5.2	IEC 60950-1
		ELV Circuits as Interconnection Circuits Clause-3.5.3	IEC 60950-1
		Data Ports for Additional Equipment Clause-3.5.4	IEC 60950-1
		Stability Clause-4.1	IEC 60950-1
		Mechanical Strength Clause-4.2	IEC 60950-1
		Steady Force Test, 10N Clause-4.2.2	IEC 60950-1
		Steady Force Test, 30N Clause-4.2.3	IEC 60950-1
		Steady Force Test, 250 N Clause-4.2.4	IEC 60950-1
		Impact Test Clause- 4.2.5	IEC 60950-1
		Drop Test Clause- 4.2.6	IEC 60950-1
		Stress Relief Test Clause-4.2.7	IEC 60950-1

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SCOPE OF DESIGNATION

(ANNEXURE)

Laboratory Name: M/s Swastik Electronics Testing Centre (OPC)
Private Limited, Ghaziabad
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Wall or Ceiling Mounted Equipment Clause-4.2.10	IEC 60950-1
		Design and Construction Clause- 4.3	IEC 60950-1
		Edges and Corners Clause-4.3.1	IEC 60950-1
		Handles and Manual Controls Clause-4.3.2	IEC 60950-1
		Adjustable Controls Clause-4.3.3	IEC 60950-1
		Securing of Parts Clause-4.3.4	IEC 60950-1
		Connection by Plugs and Sockets Clause- 4.3.5	IEC 60950-1
		Direct Plug-in Equipment Clause- 4.3.6	IEC 60950-1
		Heating Elements in Earthed Equipment Clause-4.3.7	IEC 60950-1
		Batteries Clause- 4.3.8	IEC 60950-1
		Flammable Liquids Clause-4.3.12	IEC 60950-1
		Other Types Clause- 4.3.13.6	IEC 60950-1
		Protection against Hazardous Moving Parts Clause-4.4	IEC 60950-1
		Protection in Operator Access Areas Clause-4.4.2	IEC 60950-1

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(ANNEXURE)

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Protection in Restricted Access locations Clause-4.4.3	IEC 60950-1
		Protection in Service Access Areas Clause-4.4.4	IEC 60950-1
		Thermal Requirements Clause-4.5	IEC 60950-1
		Temperature Tests Clause-4.5.2	IEC 60950-1
		Temperature Limits for Materials Clause-4.5.3	IEC 60950-1
		Touch Temperature Limits Clause-4.5.4	IEC 60950-1
		Resistance to Abnormal Heat Clause-4.5.5	IEC 60950-1
		Openings in Enclosures Clause-4.6	IEC 60950-1
		Top and Side Openings Clause-4.6.1	IEC 60950-1
		Bottoms of Fire Enclosures Clause- 4.6.2	IEC 60950-1
		Doors or Covers in Fire Enclosures Clause- 4.6.3	IEC 60950-1
		Openings in Transportable Equipment Clause- 4.6.4	IEC 60950-1
		Constructional Design Measures Clause- 4.6.4.1	IEC 60950-1
		Evaluation Measures for Larger Openings Clause-4.6.4.2	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Use of Metallized Parts Clause-4.6.4.3	IEC 60950-1
		Adhesives for Constructional Purposes Clause- 4.6.5	IEC 60950-1
		Resistance to Fire Clause-4.7	IEC 60950-1
		Reducing the Risk of Ignition and Spread of Flame Clause-4.7.1	IEC 60950-1
		Conditions for a Fire Enclosure Clause- 4.7.2	IEC 60950-1
		Parts requiring a Fire Enclosure Clause- 4.7.2.1	IEC 60950-1
		Parts not requiring a Fire Enclosure Clause-4.7.2.2	IEC 60950-1
		Materials Clause- 4.7.3	IEC 60950-1
		Materials for Fire Enclosure Clause- 4.7.3.2	IEC 60950-1
		Materials for Components and Other Parts outside Fire Enclosure Clause-4.7.3.3	IEC 60950-1
		Materials for Components and Other Parts inside Fire Enclosure Clause- 4.7.3.4	IEC 60950-1
		Materials for Air Filter Assemblies Clause-4.7.3.5	IEC 60950-1
		Materials used in High- Voltage Components Clause-4.7.3.6	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Touch Current and Protective Conductor Current Clause-5.1	IEC 60950-1
		Single Connection to an a.c. Mains Supply Clause-5.1.2.1	IEC 60950-1
		Simultaneous Multiple Connections to an a.c. Mains Supply Clause-5.1.2.3	IEC 60950-1
		Redundant Multiple Connections to an a.c. Mains Supply Clause-5.1.2.2	IEC 60950-1
		Test Circuit Clause- 5.1.3	IEC 60950-1
		Application of Measuring Instrument Clause-5.1.4	IEC 60950-1
		Test Procedure Clause-5.1.5	IEC 60950-1
		Test Measurements Clause-5.1.6	IEC 60950-1
		Equipment with Touch Current Exceeding 3.5 mA Clause-5.1.7	IEC 60950-1
		Simultaneous Multiple Connections to the Supply Clause-5.1.7.2	IEC 60950-1
		Touch Currents to Telecommunication Networks and Cable Distribution Systems and from Telecommunication Networks Clause-5.1.8	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Limitation of the Touch Current to a Telecommunication Network or to a Cable Distribution System Clause-5.1.8.1	IEC 60950-1
		Summation of Touch Currents from Telecommunication Networks Clause-5.1.8.2	IEC 60950-1
		Electric Strength Clause-5.2	IEC 60950-1
		Test Procedure Clause-5.2.2	IEC 60950-1
		Abnormal Operating and Fault Conditions Clause-5.3	IEC 60950-1
		Protection against Overload and Abnormal Operation Clause-5.3.1	IEC 60950-1
		Motors Clause-5.3.2	IEC 60950-1
		Transformers Clause- 5.3.3	IEC 60950-1
		Functional Insulation Clause-5.3.4	IEC 60950-1
		Electromechanical Components Clause- 5.3.5	IEC 60950-1
		Audio Amplifiers in Information Technology Equipment Clause-5.3.6	IEC 60950-1
		Simulation of Faults Clause-5.3.7	IEC 60950-1
		Compliance Criteria for Abnormal Operating and Fault Conditions Clause- 5.3.9	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	During the Tests Clause-5.3.9.1	IEC 60950-1
		After the Tests Clause- 5.3.9.2	IEC 60950-1
		Connection to Telecommunication Networks Clause-6	IEC 60950-1
		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
		Protection from Hazardous Voltages Clause-6.1.1	IEC 60950-1
		Separation of the Telecommunication Network from Earth Clause-6.1.2	IEC 60950-1
		Exclusions Clause- 6.1.2.2	IEC 60950-1
		Protection of Equipment Users from Over Voltages on Telecommunication Networks Clause-6.2	IEC 60950-1
		Separation Requirements Clause-6.2.1	IEC 60950-1
		Electric Strength Test Procedure Clause- 6.2.2	IEC 60950-1
		Impulse Test Clause- 6.2.2.1	IEC 60950-1
		Steady-State Test Clause-6.2.2.2	IEC 60950-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Information Technology Equipment-Safety Requirements	Compliance Criteria Clause-6.2.2.3	IEC 60950-1
		Protection of the Telecommunication Wiring System from Overheating Clause-6.3	IEC 60950-1
		Connection to Cable Distribution Systems Clause-7	IEC 60950-1
		Protection of Cable Distribution System, Service Persons and Users of Other Equipment Connected to the System, from Hazardous Voltages in the Equipment Clause- 7.2	IEC 60950-1
		Protection of Equipment Users from Over Voltages on the Cable Distribution System Clause-7.3	IEC 60950-1
		Insulation between Primary Circuits and Cable Distribution Systems Clause-7.4	IEC 60950-1
		Voltage Surge Test Clause-7.4.2	IEC 60950-1
		Impulse Test Clause- 7.4.3	IEC 60950-1
2.	Router	Interface: Wi-Fi	
		RF Output Power (Conductive only) ETSI EN 300 328 Clause-4.3.1.2, 4.3.2.2 & 5.4.2	TEC ER No. TEC37682410
		Power Spectral Density (Conductive only) ETSI EN 300 328 Clause-4.3.2.3 & 5.4.3	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Router	Interface: Wi-Fi	Duty Cycle, Tx Sequence, Tx-gap (Conductive only) ETSI EN 300 328 Clause-4.3.1.3, 4.3.2.4 & 5.4.2	TEC ER No. TEC37682410
			Accumulated Transmit Time, Frequency Occupation and Hopping Sequence (Conductive only) ETSI EN 300 328 Clause- 4.3.1.4 & 5.4.4	TEC ER No. TEC37682410
			Hopping Frequency Separation (Conductive only) ETSI EN 300 328 Clause- 4.3.1.5 & 5.4.5	TEC ER No. TEC37682410
			Hopping Sequence (Conductive only) ETSI EN 300 328 Clause-4.3.1.4&5.4.4	TEC ER No. TEC37682410
			Medium Utilization (Conductive only) ETSI EN 300 328 Clause-4.3.1.6,4.3.2.5 & 5.4.2	TEC ER No. TEC37682410
			Occupied Channel Bandwidth (Conductive only) ETSI EN 300 328 Clause- 4.3.1.8, 4.3.2.7 & 5.4.7	TEC ER No. TEC37682410
			Transmitter Unwanted Emission in OOB Domain (Conductive only) ETSI EN 300 328 Clause- 4.3.1.9, 4.3.2.8 & 5.4.8	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Router	Interface: Wi-Fi	Transmitter Unwanted Emissions in the Spurious Domain (Conductive only) ETSI EN 300 328 Clause-4.3.1.10, 4.3.2.9 & 5.4.9	TEC ER No. TEC37682410
			Receiver Spurious Emission (Conductive only) ETSI EN 300 328 Clause- 4.3.1.11, 4.3.2.10 & 5.4.10	TEC ER No. TEC37682410
			Receiver Blocking (Conductive only) ETSI EN 300 328 Clause-4.3.1.12, 4.3.2.11 & .4.11	TEC ER No. TEC37682410
			Carrier Frequencies (Conductive only) ETSI EN 301 893 Clause-4.2.1 & 5.4.2	TEC ER No. TEC37682410
			Nominal and Occupied Channel Bandwidth (Conductive only) ETSI EN 301 893 Clause-4.2.2 & 5.4.3	TEC ER No. TEC37682410
			RF Output Power, Transmit Power Control (TPC), Power Density (Conductive only) ETSI EN 301 893 Clause-4.2.3 & 5.4.4	TEC ER No. TEC37682410
			Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands (Conductive only) ETSI EN 301 893 Clause-4.2.4.1 & 5.4.5	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Router	Interface: Wi-Fi	Transmitter Unwanted Emissions within the 5 GHz RLAN Bands (Conductive only) ETSI EN 301 893 Clause-4.2.4.2	TEC ER No. TEC37682410
			Receiver Spurious Emissions (Conductive only) ETSI EN 301 893 Clause- 4.2.5 & 5.4.7	TEC ER No. TEC37682410
			Receiver Blocking (Conductive only) ETSI EN 301 893 Clause-4.2.8 & 5.4.10	TEC ER No. TEC37682410
			Designation of Centre Frequencies and Frequency Error (Conductive only) ETSI EN 302 502 Clause-4.2.1 & 5.4.2	TEC ER No. TEC37682410
			Transmitter RF Output Power (Conductive only) ETSI EN 302 502 Clause-4.2.2 & 5.4.3	TEC ER No. TEC37682410
			EIRP Spectral Density (Conductive only) ETSI EN 302 502 Clause-4.2.2 & 5.4.3	TEC ER No. TEC37682410
			EIRP (Conductive only) ETSI EN 302 502 Clause-4.2.2 & 5.4.3	TEC ER No. TEC37682410

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Router	Interface: Wi-Fi	Transmitter Unwanted Emissions (Conductive only) ETSI EN 302 502 Clause- 4.2.3 & 5.4.4	TEC ER No. TEC37682410
			Transmitter Power Control (Conductive only) ETSI EN 302 502 Clause-4.2.4 & 5.4.3	TEC ER No. TEC37682410
			Receiver Spurious Emissions (Conductive only) ETSI EN 302 502 Clause- 4.2.5 & 5.4.5	TEC ER No. TEC37682410
			Receiver Blocking (Conductive only) ETSI EN 302 502 Clause-4.2.7 & 5.4.7	TEC ER No. TEC37682410
3.	Equipment's Operating in 2.4 GHz and 5 GHz Frequency Bands	Interface: Wi-Fi	RF Output Power (Conductive only) ETSI EN 300 328 Clause-4.3.1.2, 4.3.2.2 & 5.4.2	TEC ER No. TEC59432407
			Power Spectral Density (Conductive only) ETSI EN 300 328 Clause-4.3.2.3 & 5.4.3	TEC ER No. TEC59432407
			Duty Cycle, Tx Sequence, Tx-gap (Conductive only) ETSI EN 300 328 Clause-4.3.1.3, 4.3.2.4 & 5.4.2	TEC ER No. TEC59432407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Equipment's Operating in 2.4 GHz and 5 GHz Frequency Bands	Interface: Wi-Fi	Accumulated Transmit Time, Frequency Occupation and Hopping Sequence (Conductive only) ETSI EN 300 328 Clause- 4.3.1.4 & 5.4.4	TEC ER No. TEC59432407
		Hopping Frequency Separation (Conductive only) ETSI EN 300 328 Clause- 4.3.1.5 & 5.4.5	TEC ER No. TEC59432407	
		Hopping Sequence (Conductive only) ETSI EN 300 328 Clause-4.3.1.4&5.4.4	TEC ER No. TEC59432407	
		Medium Utilization (Conductive only) ETSI EN 300 328 Clause-4.3.1.6,4.3.2.5 & 5.4.2	TEC ER No. T EC59432407	
		Occupied Channel Bandwidth (Conductive only) ETSI EN 300 328 Clause- 4.3.1.8, 4.3.2.7 & 5.4.7	TEC ER No. T EC59432407	
		Transmitter Unwanted Emission in OOB Domain (Conductive only) ETSI EN 300 328 Clause- 4.3.1.9, 4.3.2.8 & 5.4.8	TEC ER No. TEC59432407	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Frequency Bands	Interface: Wi-Fi Transmitter Unwanted Emissions in the Spurious Domain (Conductive only) ETSI EN 300 328 Clause-4.3.1.10, 4.3.2.9 & 5.4.9	TEC ER No. TEC59432407
		Receiver Spurious Emission (Conductive only) ETSI EN 300 328 Clause- 4.3.1.11, 4.3.2.10 & 5.4.10	TEC ER No. TEC59432407
		Receiver Blocking (Conductive only) ETSI EN 300 328 Clause-4.3.1.12, 4.3.2.11 & 5.4.11	TEC ER No. TEC59432407
		Carrier Frequencies (Conductive only) ETSI EN 301 893 Clause-4.2.1 & 5.4.2	TEC ER No. TEC59432407
		Nominal and Occupied Channel Bandwidth (Conductive only) ETSI EN 301 893 Clause-4.2.2 & 5.4.3	TEC ER No. T EC59432407
		RF Output Power, Transmit Power Control (TPC), Power Density (Conductive only) ETSI EN 301 893 Clause-4.2.3 & 5.4.4	TEC ER No. T EC59432407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Equipment's Operating in 2.4 GHz and 5 GHz Frequency Bands	Interface: Wi-Fi	Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands (Conductive only) ETSI EN 301 893 Clause-4.2.4.1 & 5.4.5	TEC ER No. T EC59432407
		Transmitter Unwanted Emissions within the 5 GHz RLAN Bands (Conductive only) ETSI EN 301 893 Clause-4.2.4.2	TEC ER No. T EC59432407	
		Receiver Spurious Emissions (Conductive only) ETSI EN 301 893 Clause- 4.2.5 & 5.4.7	TEC ER No. T EC59432407	
		Receiver Blocking (Conductive only) ETSI EN 301 893 Clause-4.2.8 & 5.4.10	TEC ER No. T EC59432407	
		Designation of Centre Frequencies and Frequency Error (Conductive only) ETSI EN 302 502 Clause-4.2.1 & 5.4.2	TEC ER No. T EC59432407	
		Transmitter RF Output Power (Conductive only) ETSI EN 302 502 Clause-4.2.2 & 5.4.3	TEC ER No. T EC59432407	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Frequency Bands	Interface: Wi-Fi EIRP Spectral Density (Conductive only) ETSI EN 302 502 Clause-4.2.2 & 5.4.3	TEC ER No. T EC59432407
		EIRP (Conductive only) ETSI EN 302 502 Clause-4.2.2 & 5.4.3	TEC ER No. T EC59432407
		Transmitter Unwanted Emissions (Conductive only) ETSI EN 302 502 Clause- 4.2.3 & 5.4.4	TEC ER No. T EC59432407
		Transmitter Power Control (Conductive only) ETSI EN 302 502 Clause-4.2.4 & 5.4.3	TEC ER No. T EC59432407
		Receiver Spurious Emissions (Conductive only) ETSI EN 302 502 Clause- 4.2.5 & 5.4.5	TEC ER No. T EC59432407
		Receiver Blocking (Conductive only) ETSI EN 302 502 Clause-4.2.7 & 5.4.7	TEC ER No. T EC59432407

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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
4.	Audio/Video, Information and Communication Technology Equipment: Safety Requirements	Energy Source Classifications Clause-4.2	IEC 62368-1
		Protection against Energy Sources Clause-4.3	IEC 62368-1
		Safeguards between a Class 1 Energy Source and an Ordinary Person Clause-4.3.2.1	IEC 62368-1
		Safeguards between a Class 2 Energy Source and an Ordinary Person Clause-4.3.2.2	IEC 62368-1
		Safeguards between a Class 2 Energy Source and an Ordinary Person during Ordinary Person Servicing Conditions Clause-4.3.2.3	IEC 62368-1
		Safeguards between a Class 3 Energy Source and an Ordinary Person Clause-4.3.2.4	IEC 62368-1
		Safeguards between a Class 1 Energy Source and an Instructed Person Clause-4.3.3.1	IEC 62368-1
		Safeguards between a Class 2 Energy Source and an Instructed Person Clause- 4.3.3.2	IEC 62368-1
		Safeguards between a Class 3 Energy Source and an Instructed Person Clause-4.3.3.3	IEC 62368-1
		Safeguards for Protection of a Skilled Person Clause-4.3.4	IEC 62368-1

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SCOPE OF DESIGNATION

(ANNEXURE)

Laboratory Name: M/s Swastik Electronics Testing Centre (OPC)
Private Limited, Ghaziabad
Plot No-16, Mainapur Industrial Area, Uttar Pradesh,
Ghaziabad - 201 003

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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	Safeguards between a Class 2 Energy Source and a Skilled Person Clause-4.3.4.2	IEC 62368-1
		Safeguards between a Class 3 Energy Source and a Skilled Person Clause-4.3.4.3	IEC 62368-1
		Fixing of Conductors Clause- 4.6	IEC 62368-1
		Equipment for Direct Insertion into Mains Socket-Outlets Clause-4.7	IEC 62368-1
		Compliance Criteria Clause-4.7.3	IEC 62368-1
		Stress Relief Test Clause-4.8.4.2	IEC 62368-1
		Battery Replacement Test Clause-4.8.4.3	IEC 62368-1
		Drop Test Clause- 4.8.4.4	IEC 62368-1
		Impact Test Clause- 4.8.4.5	IEC 62368-1
		Crush Test Clause- 4.8.4.6	IEC 62368-1
		Compliance Criteria Clause-4.8.5	IEC 62368-1
		Classification and Limits of Electrical Energy Sources Clause-5.2	IEC 62368-1

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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	ES1 Clause-5.2.1.1	IEC 62368-1
		ES2 Clause-5.2.1.2	IEC 62368-1
		ES3 Clause-5.2.1.3	IEC 62368-1
		Electrical Energy Source ES1 and ES2 Limits Clause-5.2.2	IEC 62368-1
		Steady State Voltage and Current Limits Clause-5.2.2.2	IEC 62368-1
		Capacitance Limits Clause-5.2.2.3	IEC 62368-1
		Limits for Repetitive Pulses Clause- 5.2.2.5	IEC 62368-1
		Ringing Signals Clause-5.2.2.6	IEC 62368-1
		Audio Signals Clause-5.2.2.7	IEC 62368-1
		Protection against Electrical Energy Sources Clause-5.3	IEC 62368-1
		Accessibility to Electrical Energy Sources and Safeguards Clause-5.3.2	IEC 62368-1
		Compliance Criteria Clause-5.3.2.3	IEC 62368-1
		Terminals for Connecting Stripped Wire Clause-5.3.2.4	IEC 62368-1

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MINISTRY OF COMMUNICATIONS
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TELECOMMUNICATION ENGINEERING CENTRE**

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



SCOPE OF DESIGNATION
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Private Limited, Ghaziabad
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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	Test for Pollution Degree 1 Environment and for an Insulating Compound Clause- 5.4.1.5.2	IEC 62368-1
		Determination of Working Voltage Clause-5.4.1.8	IEC 62368-1
		RMS Working Voltage Clause- 5.4.1.8.2	IEC 62368-1
		Thermoplastic Parts on which Conductive Metallic Parts are directly Mounted Clause-5.4.1.10	IEC 62368-1
		Vicat Test Clause- 5.4.1.10.2	IEC 62368-1
		Ball Pressure Test Clause-5.4.1.10.3	IEC 62368-1
		Clearances Clause- 5.4.2	IEC 62368-1
		Determining Transient Voltages Clause-5.4.2.3.2	IEC 62368-1
		Determining AC Mains Transient Voltages Clause- 5.4.2.3.2.2	IEC 62368-1
		Determining DC Mains Transient Voltages Clause- 5.4.2.3.2.3	IEC 62368-1
		Determining External Circuit Transient Voltages Clause-5.4.2.3.2.4	IEC 62368-1
		Determining Transient Voltage levels by Measurement Clause-5.4.2.3.2.5	IEC 62368-1
		Determining Required Withstand Voltage Clause-5.4.2.3.3	IEC 62368-1

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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	Determining Clearances using Required Withstand Voltage Clause-5.4.2.3.4	IEC 62368-1
		Determining the adequacy of a Clearance using an Electric Strength Test Clause-5.4.2.4	IEC 62368-1
		Compliance Criteria Clause-5.4.2.6	IEC 62368-1
		Creepage Distances Clause-5.4.3	IEC 62368-1
		Antenna Terminal Insulation Clause-5.4.5	IEC 62368-1
		Antenna Terminal Insulation Test Method Clause-5.4.5.2	IEC 62368-1
		Antenna Terminal Insulation Compliance Criteria Clause-5.4.5.3	IEC 62368-1
		Insulation of Internal Wire as a Part of a Supplementary Safeguard Clause-5.4.6	IEC 62368-1
		Humidity Conditioning Clause-5.4.8	IEC 62368-1
		Electric Strength Test Clause-5.4.9	IEC 62368-1
		Test Procedure for Type Testing of Solid Insulation Clause- 5.4.9.1	IEC 62368-1
		Test Procedure for Routine Tests Clause-5.4.9.2	IEC 62368-1

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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	Impulse Test Clause-5.4.10.2.2	IEC 62368-1
		Steady State Test Clause-5.4.10.2.3	IEC 62368-1
		Compliance Criteria Clause-5.4.10.3	IEC 62368-1
		Test Method and Compliance Criteria for Separation between External Circuits and Earth Clause-5.4.11.3	IEC 62368-1
		Protective Conductor Clause- 5.6	IEC 62368-1
		Requirements for Protective Conductors Clause-5.6.2	IEC 62368-1
		Colour of Insulation Clause-5.6.2.2	IEC 62368-1
		Requirements for Protective Earthing Conductors Clause- 5.6.3	IEC 62368-1
		Requirements for Protective Bonding Conductors Clause-5.6.4	IEC 62368-1
		Determination of the Protective Current Rating Clause-5.6.4.2	IEC 62368-1
		Other than Mains Supply as the Source Clause- 5.6.4.2.2	IEC 62368-1
		Current Limiting and Over Current Protective Devices Clause-5.6.4.2.4	IEC 62368-1
		Terminals for Protective Conductors Clause- 5.6.5	IEC 62368-1

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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	Test Method for Resistance of the Protective Bonding System Clause- 5.6.6.2	IEC 62368-1
		Compliance Criteria for Resistance of the Protective Bonding System Clause- 5.6.6.3	IEC 62368-1
		Functional Earthing Clause-5.6.8	IEC 62368-1
		Prospective Touch Voltage, Touch Current and Protective Conductor Current Clause-5.7	IEC 62368-1
		Measuring Devices and Networks Clause-5.7.2	IEC 62368-1
		Measurement of Touch Current Clause-5.7.2.1	IEC 62368-1
		Measurement of Voltage Clause- 5.7.2.2	IEC 62368-1
		Equipment Set-up, Supply Connections and Earth Connections Clause-5.7.3	IEC 62368-1
		Earthed accessible Conductive Parts Clause-5.7.5	IEC 62368-1
		Requirements when Touch Current exceeds ES2 Limits Clause-5.7.6	IEC 62368-1
		Prospective Touch Voltage and Touch Current associated with External Circuits Clause-5.7.7	IEC 62368-1

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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	Touch Current from Coaxial Cables Clause-5.7.7.1	IEC 62368-1
		Prospective Touch Voltage and Touch Current associated with Paired Conductor Cables Clause-5.7.7.2	IEC 62368-1
		Classification of Power Sources (PS) and Potential Ignition Sources (PIS) Clause-6.2	IEC 62368-1
		Power Source Circuit Classifications Clause-6.2.2	IEC 62368-1
		PS1 Circuit Clause- 6.2.2.4	IEC 62368-1
		PS2 Circuit Clause- 6.2.2.5	IEC 62368-1
		PS3 Circuit Clause- 6.2.2.6	IEC 62368-1
		Classification of Potential Ignition Sources Clause-6.2.3	IEC 62368-1
		Arcing PIS Clause- 6.2.3.1	IEC 62368-1
		Resistive PIS Clause-6.2.3.2	IEC 62368-1
		Safeguards against Fire under Normal Operating Conditions and Abnormal Operating Conditions Clause- 6.3.2	IEC 62368-1
		Injury Caused by Hazardous Substances Clause- 7	IEC 62368-1

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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 Energy Source Classifications Clause-8.2	IEC 62368-1
		MS1 Clause- 8.2.2	IEC 62368-1
		MS2 Clause-8.2.3	IEC 62368-1
		MS3 Clause-8.2.4	IEC 62368-1
		Safeguards against Moving Parts Clause-8.5	IEC 62368-1
		Instructional Safeguard Requirements Clause-8.5.2	IEC 62368-1
		Compliance Criteria (Safeguards against Moving Parts) Clause-8.5.3	IEC 62368-1
		Special Categories of Equipment Containing Moving Parts Clause-8.5.4	IEC 62368-1
		Equipment Containing Work Cells with MS3 Parts Clause-8.5.4.2	IEC 62368-1
		Protection of Persons in the Work Cell Clause-8.5.4.2.1	IEC 62368-1
		Access Protection Override Clause-8.5.4.2.2	IEC 62368-1
		Visual Indicator Clause-8.5.4.2.2.2	IEC 62368-1
		Emergency Stop System Clause- 8.5.4.2	IEC 62368-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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Audio/Video, Information and Communication Technology Equipment: Safety Requirements	Endurance Requirements Clause-8.5.4.2.4	IEC 62368-1
	Equipment having an Electro Mechanical Device for Destruction of Media Clause- 8.5.4.3	IEC 62368-1
	Instructional Safeguards against Moving Parts Clause-8.5.4.3.2	IEC 62368-1
	Disconnection from the Supply Clause- 8.5.4.3.3	IEC 62368-1
	Test Method for High Pressure Lamps Clause- 8.5.5.2	IEC 62368-1
	Compliance Criteria for High Pressure Lamps Clause- 8.5.5.3	IEC 62368-1
	Stability of Equipment Clause- 8.6	IEC 62368-1
	Static Stability Clause-8.6.2	IEC 62368-1
	Test Setup for Static Stability Clause- 8.6.2.1	IEC 62368-1
	Static Stability Test Clause-8.6.2.2	IEC 62368-1
	Downward Force Test Clause-8.6.2.3	IEC 62368-1
	Compliance Criteria for Stability of Equipment Clause:8.6.2.4	IEC 62368-1
	Test Method and Compliance Criteria for Relocation Stability Clause- 8.6.3.2	IEC 62368-1

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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	Horizontal Force Test and Compliance Criteria Clause- 8.6.5	IEC 62368-1
		Equipment Mounted to a Wall, Ceiling or Other Structure Clause-8.7	IEC 62368-1
		Test Methods for Equipment Mounted to a Wall, Ceiling or Other Structure Clause- 8.7.2	IEC 62368-1
		Handle Strength Clause-8.8	IEC 62368-1
		Test Method (Handle Strength) Clause-8.8.2	IEC 62368-1
		Wheels or Casters Attachment Requirements Clause-8.9	IEC 62368-1
		Carts, Stands and Similar Carriers Clause-8.10	IEC 62368-1
		Cart, Stand or Carrier Loading Test and Compliance Criteria Clause-8.10.3	IEC 62368-1
		Cart, Stand or Carrier Impact Test Clause-8.10.4	IEC 62368-1
		Touch Temperature Limits Clause-9.3	IEC 62368-1
		Normal Operating Condition Tests, Abnormal Operating Condition Tests and Single Fault Condition Tests Clause-Annex B	IEC 62368-1

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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	Input Test Clause- Annex B.2.5	IEC 62368-1
		Operating Temperature Measurement Conditions Clause-Annex B.2.6	IEC 62368-1
		Simulated Abnormal Operating Conditions Clause- B.3	IEC 62368-1
		DC Mains Polarity Test Clause-Annex B.3.3	IEC 62368-1
		Setting of Voltage Selector Clause- Annex B.3.4	IEC 62368-1
		Maximum Load at Output Terminals Clause-Annex B.3.5	IEC 62368-1
		Reverse Battery Polarity Clause-AnnexB.3.6	IEC 62368-1
		Audio Amplifier Abnormal Operating Conditions Clause- Annex B.3.7	IEC 62368-1
		Compliance Criteria during and after Abnormal Operating Conditions Clause- Annex B.3.8	IEC 62368-1
		Simulated Single Fault Conditions Clause-Annex B.4	IEC 62368-1
		Temperature Controlling Device Clause-Annex B.4.2	IEC 62368-1
		Motor Tests Clause- Annex B.4.3	IEC 62368-1
		Functional Insulation Clause-Annex B.4.4	IEC 62368-1

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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	Clearances for Functional Insulation Clause-Annex B.4.4.1	IEC 62368-1
		Creepage Distances for Functional Insulation Clause-Annex B.4.4.2	IEC 62368-1
		Functional Insulation on Coated Printed Boards Clause-Annex B.4.4.3	IEC 62368-1
		Short-Circuit and Interruption of Electrodes in Tubes and Semiconductors Clause-Annex B.4.5	IEC 62368-1
		Short-Circuit or Disconnection of Passive Components Clause-Annex B.4.6	IEC 62368-1
		Continuous Operation of Components Clause-Annex B.4.7	IEC 62368-1
		Compliance Criteria during and after Single Fault Conditions Clause- Annex B.4.8	IEC 62368-1
		Battery Charging and Discharging under Single Fault Conditions Clause-Annex B.4.9	IEC 62368-1
5. Secondary Cells and Batteries (Lithium-ion System)- Safety Requirements	Charging Procedure for Test Purpose Clause- 7.1	IEC 62133-2	
	Continuous Charging at Constant Voltage (Cell) Clause- 7.2. 1	IEC 62133-2	
	Crush (Cells) Clause- 7.3.5	IEC 62133-2	
	External Short Circuit (Cell) Clause- 7.3.1	IEC 62133-2	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Secondary Cells and Batteries (Lithium-ion System)- Safety Requirements	Forced Discharge (Cells) Clause- 7.3.7	IEC 62133-2
		External Short Circuit (Battery) Clause- 7.3.2	IEC 62133-2
		Free Fall Clause- 7.3.3	IEC 62133-2
		Insulation Resistance Test Clause- 5.2	IEC 62133-2
		Mechanical Shock Clause- 7.3.8.2	IEC 62133-2
		Overcharging of Battery Clause- 7.3.6	IEC 62133-2
		Thermal Abuse (Cell) Clause- 7.3.4	IEC 62133-2
		Vibration Clause- 7.3.8.1	IEC 62133-2
		Case Stress at High Ambient Temperature Clause- 7.2.2	IEC 62133-2

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