

**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE**
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110001



SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s Electronics Regional Test Laboratory (North), New Delhi
S-Block, Okhla Industrial Area, Phase-II, New Delhi-110020

Certificate Number: TEC/MRA/CAB/IND-D/56

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Validity: 30/07/2025 to 29/07/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Information Technology-Equipment-Safety Requirement	Components Clause- 1.5	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Power Interface Clause- 1.6	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Verification of Marking and Instruction Clause- 1.7	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Protection from Electric Shock and Energy Hazards Clause- 2.1	IEC 60950-1: 2005+ A1:2009 + A2:2013
		SELV Circuits Clause- 2.2	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Limited Current Circuits Clause- 2.4	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Limited Power Source Clause- 2.5	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Provisions for Earthing and Bonding Clause- 2.6	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Over-Current and Earth Fault Protection in Primary Circuits Clause- 2.7	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Safety Interlocks Clause-2.8	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Electric Insulation Clause- 2.9	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Clearances and Creepage Distances and Distances through insulation Clause- 2.10	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Wiring, Connection and Supply Clause- 3.1	IEC 60950-1: 2005+ 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	Connection to a Main Supply Clause 3.2	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Wiring Terminals for Connection of External Conductors Clause- 3.3	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Disconnection from the Main Supply Clause- 3.4	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Interconnection of Equipment Clause- 3.5	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Stability Clause- 4.1	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Mechanical Strength Clause- 4.2	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Design and Construction Clause 4.3	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Protection against Hazardous Moving Parts Clause- 4.4	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Thermal Requirements Clause- 4.5	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Opening in Enclosures Clause- 4.6	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Resistance to Fire Clause- 4.7	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Electrical Requirements and Simulated Abnormal Conditions Clause- 5.1	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Electric Strength Clause- 5.2	IEC 60950-1: 2005+ 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	Abnormal Operating and Fault Conditions Clause- 5.3	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Connection to the Telecommunication Network Clause- 6.1 -6.3	IEC 60950-1: 2005+ A1:2009 + A2:2013
		Connection to Cable Distribution Systems (Clause 7 except 7.4.2)	IEC 60950-1: 2005+ A1:2009 + A2:2013
2.	EMI/EMC Testing	Conducted Emission CISPR 22	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission CISPR 11	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission CISPR 32	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 11	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 22	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 32	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic Discharge (ESD) IEC 61000-4-2	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic Fast Transient (EFT)/ Burst Immunity Test IEC 61000-4-4	TEC/SD/DD/EMC-221/05/OCT-16
		Surge Immunity Test IEC 61000-4-5	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Immunity Test IEC 61000-4-6	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage Dips & Interruption IEC 61000-4-11	TEC/SD/DD/EMC-221/05/OCT-16

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	EMI/EMC Testing	Voltage Dips & Interruption IEC 61000-4-29	TEC/SD/DD/EMC-221/05/OCT-16
		Telecom Surge ITU-T K.20	TEC/SD/DD/EMC-221/05/OCT-16
		Telecom Surge ITU-T K.21	TEC/SD/DD/EMC-221/05/OCT-16
		Telecom Surge ITU-T K.41	TEC/SD/DD/EMC-221/05/OCT-16
3.	Environmental Testing	Cold Test	QM-333 ISSUE MARCH 2010
		Dry heat Test	QM-333 ISSUE MARCH 2010
		Damp Heat Test (Cyclic)	QM-333 ISSUE MARCH 2010
		Temperature Cycling /Change of Temperature	QM-333 ISSUE MARCH 2010
		Damp Heat Test (Steady State)	QM-333 ISSUE MARCH 2010
		Vibration Test	QM-333 ISSUE MARCH 2010
		Salt Mist Test	QM-333 ISSUE MARCH 2010
		Bump Test	QM-333 ISSUE MARCH 2010

AD (CA-II), TEC

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