



सत्यमेव जयते



**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001**

CERTIFICATE OF DESIGNATION

M/s Electronics Regional Test Laboratory (North), New Delhi

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

S- Block, Okhla Industrial Area, Phase - II, New Delhi – 110 020

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/56

Issue Date: 01/08/2022

Valid Until: 29/07/2025

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/56 dated 01/08/2022 issued to
M/s Electronics Regional Test Laboratory (North), New Delhi
S- Block, Okhla Industrial Area,
Phase - II, New Delhi – 110 020



Validity: - 30/07/2022 to 29/07/2025

Terms & Conditions

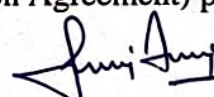
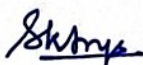
This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

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.

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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

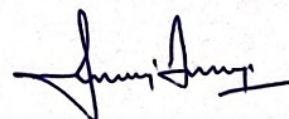
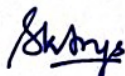
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

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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S- Block, Okhla Industrial Area,
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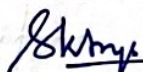
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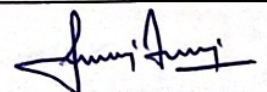
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Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Information Technology Equipment- Safety Requirements	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
		Verifications 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 Sources 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


Director (CA), TEC


AD (CA), TEC

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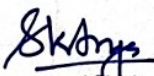
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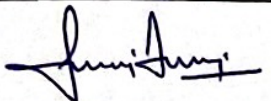
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Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment- Safety Requirements	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, Creepage Distances and Distances through Insulation Clause- 2.10	IEC 60950-1:2005 + A1: 2009 + A2: 2013
		Wiring, Connections and Supply Clause- 3.1	IEC 60950-1:2005 + A1: 2009 + A2: 2013
		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 for 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


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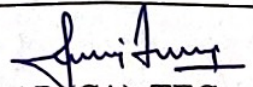
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Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment- Safety Requirements	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
		Abnormal Operation and Fault Conditions Clause- 5.3	IEC 60950-1:2005 + A1: 2009 + A2: 2013


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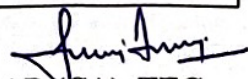
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment- Safety Requirements	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: 2008)	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission (CISPR 11: 2015)	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission (CISPR 32:2015)	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission (CISPR 22: 2008)	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission (CISPR 11: 2015)	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission (CISPR 32:2015)	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic Discharge (ESD) (IEC 61000-4-2: 2008)	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic Fast Transient (EFT)/ Burst Immunity Test (IEC 61000-4-4: 2012)	TEC/SD/DD/EMC-221/05/OCT-16


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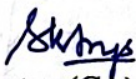
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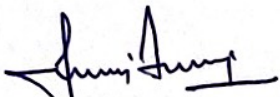
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Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	EMI/EMC Testing	Surge Immunity Test (IEC 61000-4-5: 2014)	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Immunity Test (IEC 61000-4-6: 2013)	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage Dips & Interruption (IEC 61000-4-11: 2004)	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage Dips & Interruption (IEC 61000-4-29: 2000)	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


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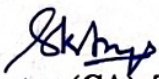
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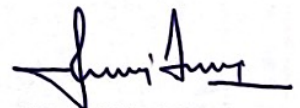
Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Environmental Testing	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
	Uninterruptible Power Supply (UPS) - Safety Requirement	Insulation Clause-3.6	
		Component Clause- 4.5	IEC62040-1:2008
		Power Interface Clause- 4.6	IEC62040-1:2008
		Power Rating Clause- 4.7.2	IEC62040-1:2008
		High Leakage Current Clause- 4.7.13	IEC62040-1:2008
		Durability of Marking- Petroleum Spirit (Clause 4.7.16)	IEC62040-1:2008


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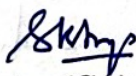
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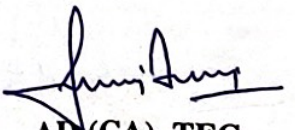
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Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS) - Safety Requirement	Battery-Variable Resistive Load(Clause 4.7.20)	IEC62040-1:2008
		Protection against Electric Shock and Energy Hazards Clause- 5.1	IEC62040-1:2008
		Limited Current Circuits Clause- 5.2.3	IEC62040-1:2008
		External Signaling Circuits Clause- 5.2.4	IEC62040-1:2008
		Limited Power Source Clause- 5.2.5	IEC62040-1:2008
		Protective Earthing Clause- 5.3.2	IEC62040-1:2008
		AC & DC Power Isolation Clause- 5.4	IEC62040-1:2008
		Overcurrent and Earth Fault Protection Clause- 5.5	IEC62040-1:2008


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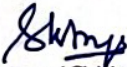
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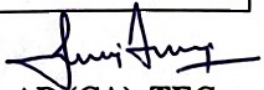
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Validity: 30/07/2022 to 29/07/2025

Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS) - Safety Requirement	Protection of Personnel-Safety Interlocks Clause- 5.6	IEC62040-1:2008
		Clearance, Creepage distance and distance through Insulation Clause- 5.7	IEC62040-1:2008
		Wiring, Connections and Supply-general Clause- 6.1	IEC62040-1:2008
		General Provision for connection to Power Clause- 6.2.1	IEC62040-1:2008
		Stability Clause- 7.2	IEC62040-1:2008
		Mechanical Strength Clause- 7.3	IEC62040-1:2008
		Construction details Clause- 7.4	IEC62040-1:2008
		Resistance to Fire Clause -7.5	IEC62040-1:2008


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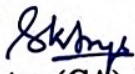
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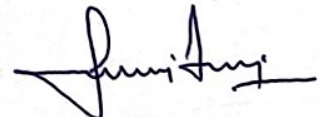
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Supply (UPS) - Safety Requirement	Temperature Rise Clause- 7.7	IEC62040-1:2008
		General Provision for Earth Leakage Clause- 8.1	IEC62040-1:2008
		Electric Strength Clause-8.2	IEC62040-1:2008
		Abnormal Operating and Fault Condition Clause- 8.3	IEC62040-1:2008
		Connection to Telecommunication Networks Clause- 9	IEC62040-1:2008


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