



सत्यमेव जयते



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

CERTIFICATE OF DESIGNATION

M/s Bharat Test House, (Private) Limited, Sonipat
has been assessed and designated as Conformity Assessment Body (CAB)

for its facilities at

1474, HSIIDC Industrial Area, Rai, Sonipat- 131 001, Haryana

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/75

Issue Date: 27/10/2021

Valid Until: 26/10/2024

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 (MRA)
For Designating Authority
TEC**

Certificate No: TEC/MRA/CAB/IND-D/75 dated 27/10/2021 issued to
M/s Bharat Test House, (Private) Limited
1474, HSIIDC Industrial Area, Rai, Sonipat -131 001, Haryana

Validity: 27/10/2021 to 26/10/2024

Terms & Conditions

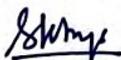
This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

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



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

B. REFERENCE TO DESIGNATION STATUS

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

C. POST-DESIGNATION SURVEILLANCE

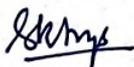
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

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

E. AMENDMENT TO THE SCHEME

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





SCOPE OF DESIGNATION
(ANNEXURE)

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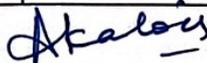
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Validity: 27/10/2021 to 26/10/2024

Last Amended on: 28/01/2022

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	EMI/EMC Testing for Telecom Equipment	Conducted Emission (CISPR 22, CISPR 32)	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters
		Electrostatic Discharge (Air and contact discharge) (IEC 61000-4-2)	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters
		Immunity to Fast transients (Burst) (IEC 61000-4-4)	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters
		High Energy/Telecom Surge Immunity Test (IEC 61000-4-5)	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters
		Immunity to Voltage dips and short interruptions (IEC 61000-4-11)	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters
		Conducted emission and disturbance power measurement test (CISPR 14-1)	TEC/SD/DD/EMC-221/05/OCT-16 and ER Parameters


Director (CA), TEC


AD (CA), TEC

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Last Amended on: 28/01/2022

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
2.	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 Markings and instructions (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
		TNV Circuit (Clause 2.3)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Limited Current Circuit (Clause 2.4)	IEC 60950-1:2005 +A1:2009 +A2:2013


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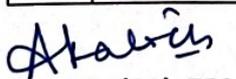
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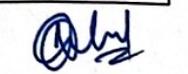
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment - Safety Requirement	Limited Power Source (Clause 2.5)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Provisions for earthing and bonding (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
		Electrical Insulation (Clause 2.9)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Clearances and Creepage distances and distance through insulation (Clause 2.10)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Wiring, connections and supply-General (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 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
		Physical requirements (Clause 4.0)	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



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment - Safety Requirement	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 enclosure (Clause 4.6)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Materials (Clause 4.7)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Electrical requirements and simulated abnormal conditions (Clause 5)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Touch current and protective conductor current (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 telecommunication network (Clause 6)	IEC 60950-1:2005 +A1:2009 +A2:2013
		Connection to cable distribution system (Clause 7)	IEC 60950-1:2005 +A1:2009 +A2:2013
3.	Safety Requirement for electrical equipment for measurement, control and laboratory use- Part 1: General Requirements	Testing in single fault condition (Clause 4.4)	IEC 61010-1:2010
		Marking and documentation (Clause 5)	IEC 61010-1:2010
		General (Clause 6.1)	IEC 61010-1:2010
		Determination of Accessible Parts (Clause 6.2)	IEC 61010-1:2010


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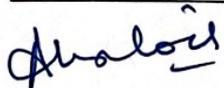
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Safety Requirement for electrical equipment for measurement, control and laboratory use- Part 1: General Requirements	Limit values for Accessible Parts (Clause 6.3)	IEC 61010-1:2010
		Primary means of Protection (Clause 6.4)	IEC 61010-1:2010
		Additional means of Protection in case of single fault conditions (Clause 6.5)	IEC 61010-1:2010
		Connection to external circuits (Clause 6.6)	IEC 61010-1:2010
		Insulation requirements (Clause 6.7)	IEC 61010-1:2010
		Procedure for voltage test (Clause 6.8)	IEC 61010-1:2010
		Constructional requirements for protection against electric shocks (Clause 6.9)	IEC 61010-1:2010



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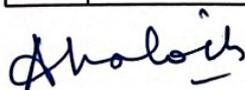
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Safety Requirement for electrical equipment for measurement, control and laboratory use- Part 1: General Requirements	Connection to the MAINS supply source and connection between parts of equipment (Clause 6.10)	IEC 61010-1:2010
		Disconnection from Supply source (Clause 6.11)	IEC 61010-1:2010
		Protection against Mechanical hazards (Clause 7)	IEC 61010-1:2010
		Resistance to Mechanical stresses (Clause 8)	IEC 61010-1:2010
		Protection against the spread of fire (Clause 9)	IEC 61010-1:2010
		Equipment temperature limits and resistance to heat (Clause 10)	IEC 61010-1:2010
		Protection against hazards from fluids (Clause 11)	IEC 61010-1:2010



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Safety Requirement for electrical equipment for measurement, control and laboratory use- Part 1: General Requirements	Protection against radiation, including laser source & against sonic and pressure (Clause 12 except clause 12.2 and 12.5.2)	IEC 61010-1:2010
		Protection against liberated gases and substances, explosion and implosion (Clause 13)	IEC 61010-1:2010
		Component and sub-assemblies (Clause 14)	IEC 61010-1:2010
		Protection by interlocks (Clause 15)	IEC 61010-1:2010
		Hazards resulting from application (Clause 16)	IEC 61010-1:2010
		Risk Assessment (Clause 17)	IEC 61010-1:2010

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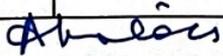
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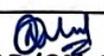
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Last Amended on: 28/01/2022

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
4.	Environment Testing for Telecom Equipment	Dry Heat and Cold test	QM 333 March 2010
		Damp Heat Cyclic Test	QM 333 March 2010
		Change of Temperature	QM 333 March 2010
		Damp Heat Test	QM 333 March 2010
		Vibration Test	QM 333 March 2010
		Low Air Pressure Test	QM 333 March 2010
		Water Immersion Test	QM 333 March 2010
		Salt Test	QM 333 March 2010
		Impact/Bump/Shock Test	QM 333 March 2010
		Rain Test	QM 333 March 2010
		Dust & Moisture Test	QM 333 March 2010


Director (CA), TEC -


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
5.	Uninterrupted Power Supply-Part-1: General and Safety requirement for UPS	Components (Clause 4.5)	IEC 62040-1:2008
		Power Interface (Clause 4.6)	IEC 62040-1:2008
		Marking & Instructions (Clause 4.7)	IEC 62040-1:2008
		Protection against Electric Shock and Energy Hazards (Clause 5.1)	IEC 62040-1:2008
		Requirements for Auxiliary Circuits (Clause 5.2)	IEC 62040-1:2008
		Protective Earthing and Bonding (Clause 5.3)	IEC 62040-1:2008
		AC and DC Power isolation (Clause 5.4)	IEC 62040-1:2008

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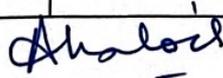
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterrupted Power Supply-Part-1: General and Safety requirement for UPS	Over Current and Earth Fault Protection (Clause 5.5)	IEC 62040-1:2008
		Protection of Personnel-Safety Interlocks (Clause 5.6)	IEC 62040-1:2008
		Clearance, Creepage Distance and distance through Insulation (Clause 5.7)	IEC 62040-1:2008
		Wiring connections and Supply (Clause 6)	IEC 62040-1:2008
		Connection to Power (Clause 6.2)	IEC 62040-1:2008
		Wiring terminal for External Power Conductor (Clause 6.3)	IEC 62040-1:2008
		Enclosure (Clause 7.1)	IEC 62040-1:2008


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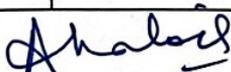
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	Uninterrupted Power Supply-Part-1: General and Safety requirement for UPS	Stability (Clause 7.2)	IEC 62040-1:2008
		Mechanical Strength (Clause 7.3)	IEC 62040-1:2008
		Construction Details (Clause 7.4)	IEC 62040-1:2008
		Resistance to Fire (Clause 7.5)	IEC 62040-1:2008
		Battery location (Clause 7.6)	IEC 62040-1:2008
		Temperature Rise (Clause 7.7)	IEC 62040-1:2008
		Electrical Requirements and Simulated abnormal condition (Clause 8)	IEC 62040-1:2008


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterrupted Power Supply-Part-1: General and Safety requirement for UPS	Electric Strength (Clause 8.2)	IEC 62040-1:2008
		Abnormal Operating and Fault Conditions (Clause 8.3)	IEC 62040-1:2008
		Connection to Telecommunication Networks (Clause 9)	IEC 62040-1:2008
6.	Lithium Ion Battery for Telecom Application- Safety	Continuous Charging at Constant Voltage (Cells) (Clause 7.2.1)	IEC 62133-2:2017
		External Short Circuit (Clause 7.3.1 & 7.3.2)	IEC 62133-2:2017
		Over-charging of battery (Clause 7.3.6)	IEC 62133-2:2017
		Forced discharge (Clause 7.3.7)	IEC 62133-2:2017
		Crush (Cells) (Clause 7.3.5)	IEC 62133-2:2017

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Validity: 27/10/2021 to 26/10/2024

Last Amended on: 28/01/2022

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Lithium Ion Battery for Telecom Application- Safety	Impact (Clause 38.3.4.6 of UN 38.3)	IEC 62133-2:2017
		Mechanical Shock (Clause 7.3.8.2)	IEC 62133-2:2017
		Vibration (Clause 7.3.8.1)	IEC 62133-2:2017
		Thermal Abuse (Cells) (Clause 7.3.4)	IEC 62133-2:2017
		Thermal Test (Clause 38.3.4.2 of UN 38.3)	IEC 62133-2:2017
		Altitude Simulated (Clause 38.3.4.1 of UN 38.3)	IEC 62133-2:2017
7.	Specific Absorption Rate (SAR) Testing	All type of testing covered in TEC/GR/SAR/001/01. MAR-09 IEC 62209-1:2016 IEC 62209-2:2010	TEC/GR/SAR/001/01. MAR-09 IEC 62209-1:2016 IEC 62209-2:2010


Director (CA), TEC


AD (CA), TEC

*The validity of Certificate is up to 26/10/2024 or the continued validity of NABL Accreditation, whichever is earlier.