



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: 25/10/2024

Validity: 27/10/2024 to 26/10/2027

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/75 dated 25/10/2024 issued to M/s Bharat Test House, (Private) Limited, Sonipat 1474, HSIIDC Industrial Area, Rai, Sonipat -131 001, Haryana. ISO 9001:2015

Validity: -27/10/2024 to 26/10/2027

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 nonroutine 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.



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

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Bharat Test House, (Private) Limited, Sonipat 1474, HSIIDC Industrial Area, Rai, Sonipat -131001, Haryana.

Certificate Number: TEC/MRA/CAB/IND-D/75

Page 1 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

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 Test (Air and Contact Discharge) IEC 61000-4-2	TEC/SD/DD/EMC- 221/05/OCT-16 and ER Parameters TEC/SD/DD/EMC- 221/05/OCT-16 and ER Parameters TEC/SD/DD/EMC- 221/05/OCT-16 and ER Parameters TEC/SD/DD/EMC- 221/05/OCT-16 and ER Parameters
		Immunity to Fast Transients (Burst) IEC 61000-4-4	221/05/OCT-16 and ER
		High Energy/Telecom Surge Immunity Test IEC 61000-4-5	221/05/OCT-16 and ER
		Immunity to Voltage Dips and Short Interruptions IEC 61000-4-11	221/05/OCT-16 and ER
		Conducted Emission and Disturbance Power Measurement Test CISPR 14-1	TEC/SD/DD/EMC- 221/05/OCT-16 and ER Parameters
2.	Information Technology	Components Clause- 1.5	IEC 60950-1:2005 +A1:2009 +A2:2013
	Equipment - Safety Requirement	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 Shook 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



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

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Certificate Number: TEC/MRA/CAB/IND-D/75

Page 2 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/Product		Specification

Information	TNV Circuit	IEC 60950-1:2005
Technology	Clause- 2.3	+A1:2009 +A2:2013
Equipment - Safety	Limited Current Circuit	IEC 60950-1:2005
Requirement	Clause- 2.4	+A1:2009 +A2:2013
	Limited Power Source	IEC 60950-1:2005
	Clause- 2.5	+A1:2009 +A2:2013
	Provisions for Earthing and Bonding	IEC 60950-1:2005
	Clause- 2.6	+A1:2009 +A2:2013
	Over Current and Earth Fault Protection	IEC 60950-1:2005
	in Primary Circuits	+A1:2009 +A2:2013
	Clause- 2.7	
	Safety Interlocks	IEC 60950-1:2005
	Clause- 2.8	+A1:2009 +A2:2013
	Electrical Insulation	IEC 60950-1:2005
	Clause- 2.9	+A1:2009 +A2:2013
	Clearances and Creepage Distances	IEC 60950-1:2005
	and Distance through Insulation	+A1:2009 +A2:2013
	Clause- 2.10	
	Wiring, connections and supply-	IEC 60950-1:2005
	General	+A1:2009 +A2:2013
	Clause- 3.0	
	Connection to a Main Supply	IEC 60950-1:2005
	Clause- 3.2	+A1:2009 +A2:2013
	Wiring Terminals for Connection of	IEC 60950-1:2005
	External Conductors	+A1:2009 +A2:2013
	Clause- 3.3	IEC (0050 1.2005
	Disconnection for the Main Supply Clause- 3.4	IEC 60950-1:2005
		+A1:2009 +A2:2013
	Interconnection of Equipment	IEC 60950-1:2005
	Clause- 3.5	+A1:2009 +A2:2013



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

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Certificate Number: TEC/MRA/CAB/IND-D/75

Page 3 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/Product		Specification

Information Technology	Stability Clause- 4.1	IEC 60950-1:2005 +A1:2009 +A2:2013
Equipment - Safety Requirement	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 Enclosure 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	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
	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



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

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Laboratory Name: M/s Bharat Test House, (Private) Limited, Sonipat 1474, HSIIDC Industrial Area, Rai, Sonipat -131001, Haryana.

Certificate Number: TEC/MRA/CAB/IND-D/75

Page 4 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

		1	
Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/Product		Specification
[1	1	
	Information	Connection to Cable Distribution	IEC 60950-1:2005
	Technology	System	+A1:2009 +A2:2013
	Equipment - Safety	Clause- 7	
	Requirement		
3.	Safety Requirement	Testing in Single Fault Condition	IEC 60950-1:2005
	for Electrical	Clause- 4.4	+A1:2009 +A2:2013
	Equipment for	Marking and Documentation	IEC 60950-1:2005
	Measurement,	Clause- 5	+A1:2009 +A2:2013
	Control and	General	IEC 61010-1:2010
	Laboratory use-	Clause- 6.1	
	Part 1: General	Determination of Accessible Parts	IEC 61010-1:2010
	Requirements	Clause- 6.2	
		Limit Values for Accessible Parts	IEC 61010-1:2010
		Clause- 6.3	
		Primary Means of Protection	IEC 61010-1:2010
		Clause- 6.4	
		Additional Means of Protection in case	IEC 61010-1:2010
		of Single Fault Conditions	ILC 01010-1.2010
		Clause- 6.5	
		Connection to External Circuits	IEC 61010-1:2010
		Clause- 6.6	12.0 01010 1.2010
		Insulation Requirements	IEC 61010-1:2010
		Clause- 6.7	120 01010 1.2010
			IEC (1010 1 2010
		Procedure for Voltage Test	IEC 61010-1:2010
		Clause- 6.8	
		Constructional Requirements for	IEC 61010-1:2010
		Protection against Electric Shocks	12.0 01010 1.2010
		Clause- 6.9	



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

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Certificate Number: TEC/MRA/CAB/IND-D/75

Page 5 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

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SI.	Telecom	Test Parameter or Type of Testing	Standard/	
0.	Equipment/Product		Specification	
	Safety Requirement	Connection to the MAINS Supply	IEC 61010-1:2010	
	for Electrical	Source and Connection between Parts		
	Equipment for	of Equipment		
	Measurement,	Clause- 6.10		
	Control and	Disconnection from Supply Source	IEC 61010-1:2010	
	Laboratory use-	Clause- 6.11		
	Part 1: General	Protection against Mechanical Hazards	IEC 61010-1:2010	
	Requirements	Clause- 7		
		Resistance to Mechanical Stresses	IEC 61010-1:2010	
		Clause- 8		
		Protection against the Spread of Fire	IEC 61010-1:2010	
		Clause- 9		
		Equipment Temperature Limits and	IEC 61010-1:2010	
		Resistance to Heat		
		Clause-10		
		Protection against Hazards from Fluids	IEC 61010-1:2010	
		Clause- 11		
		Protection against Radiation, including	IEC 61010-1:2010	
		Laser Source & against Sonic and		
		Pressure		
		Clause- 12 except Clause 12.2 and		
		12.5.2	IEC (1010 1.2010	
		Protection against Liberated Gases and	IEC 61010-1:2010	
		Substances, Explosion and Implosion Clause- 13		
			IEC (1010 1.2010	
		Component and Sub-assemblies Clause- 14	IEC 61010-1:2010	
		Protection by Interlocks	IEC 61010-1:2010	
		Clause- 15		
		Hazards Resulting from Application	IEC 61010-1:2010	

*The validity of Certificate is up to 26/10/2027 or the continued validity of NABL Accreditation, whichever is earlier.

Clause-16



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

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Certificate Number: TEC/MRA/CAB/IND-D/75

Page 6 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/Product		Specification

	Safety Requirement for Electrical Equipment for Measurement, Control and Laboratory use- Part 1: General Requirements	Risk Assessment Clause- 17	IEC 61010-1:2010
4.	Environment Testing	Dry Heat and Cold Test	QM 333 Issue,
	for Telecom Equipment	Damp Heat (Cyclic) Test	March 2010 QM 333 Issue, March 2010
		Change of Temperature Test	QM 333 Issue, March 2010
		Damp Heat Test	QM 333 Issue, March 2010
		Vibration Test	QM 333 Issue, March 2010
		Low Air Pressure Test	QM 333 Issue, March 2010
		Water Immersion Test	QM 333 Issue, March 2010
		Salt Test	QM 333 Issue, March 2010
		Impact/Bump/Shock Test	QM 333 Issue, March 2010
		Rain Test	QM 333 Issue, March 2010
		Dust & Moisture Test	QM 333 Issue, March 2010



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

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Laboratory Name: M/s Bharat Test House, (Private) Limited, Sonipat 1474, HSIIDC Industrial Area, Rai, Sonipat -131001, Haryana.

Certificate Number: TEC/MRA/CAB/IND-D/75

Page 7 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/Product		Specification

5.	Uninterrupted Power Supply-Part-1:	Components Clause- 4.5	IEC 62040-1:2008
	General and Safety requirement for UPS	Power Interface Clause- 4.6	IEC 62040-1:2008
		Marking & Instructions Claus-e 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
		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



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

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Certificate Number: TEC/MRA/CAB/IND-D/75

Page 8 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

Sl.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/Product		Specification

Uninterrupted Power Supply-Part-1: General and Safety	Wiring Terminal for External Power Conductor Clause- 6.3	IEC 62040-1:2008
requirement for UPS	Enclosure Clause- 7.1	IEC 62040-1:2008
	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
	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



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

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Bharat Test House, (Private) Limited, Sonipat 1474, HSIIDC Industrial Area, Rai, Sonipat -131001, Haryana.

Certificate Number: TEC/MRA/CAB/IND-D/75

Page 9 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

No.	Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment/11ouuet	1	Specification
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
		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



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

SCOPE OF DESIGNATION (ANNEXURE)

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Certificate Number: TEC/MRA/CAB/IND-D/75

Page 10 of 10

Validity: 27/10/2024 to 26/10/2027

Last Amended on: ----

SI. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
			_
7.	Specific Absorption	All type of testing covered in TEC	TEC 13010:2009

7.	Specific Absorption	All type of testing covered in TEC	TEC 13010:2009	
	Rate (SAR) Testing	13010:2009	(Old GR No.	
		(Old GR No. TEC/GR/SAR/001/01.	TEC/GR/SAR/001/01.	
		MAR-09)	MAR-09)	
		IEC 62209-1:2016	IEC 62209-1:2016	
		IEC 62209-2:2010	IEC 62209-2:2010	

AD (CA), TEC