



**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 REACT COMPLIANCE & TESTING LABORATORIES LLP,
BENGALURU**

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

3411, 3rd Floor, Service Road Vijaya Nagar, Bangalore-560040

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/77

Issue Date: 06/12/2024

Validity: 06/12/2024 to 28/09/2027

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. This Certificate is issued on account of Conversion of “REACT LABORATORIES” to “REACT COMPLIANCE & TESTING LABORATORIES LLP”.

(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/77 dated 06/12/2024 issued to
M/s REACT COMPLIANCE & TESTING
LABORATORIES LLP, BENGALURU
3411, 3rd Floor, Service Road, Vijayanagar, Bengaluru-560 040**



Validity: -06/12/2024 to 28/09/2027

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 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.

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ISO 9001: 2015

SCOPE OF DESIGNATION
(ANNEXURE)

**Laboratory Name: M/s REACT COMPLIANCE & TESTING
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Validity: 06/12/2024 to 28/09/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
1	Uninterruptible Power System (UPS)-Part 1: General and Safety requirements for UPS	Power Interface Clause- 4.6	IEC 62040-1
		Marking & Instruction Clause- 4.7	IEC 62040-1
		Durability of Marking Clause- 4.7.16	IEC 62040-1
		Battery Clause- 4.7.20	IEC 62040-1
		Protection for UPS intended to be used in Operator Access Area Clause- 5.1.1	IEC 62040-1
		Protection for UPS intended to be used in Service Access Area Clause- 5.1.2	IEC 62040-1
		Protection for UPS intended to be used in Restricted Access Area Clause- 5.1.3	IEC 62040-1
		Back feed Protection Clause-5.1.4	IEC 62040-1
		Safety extra low voltage –SELV Circuit Clause- 5.2.1	IEC 62040-1
		Telephone network voltage circuits –TNV Circuit Clause- 5.2.2	IEC 62040-1
		Limited Current circuits Clause- 5.2.3	IEC 62040-1
		External Signalling Circuit Clause- 5.2.4	IEC 62040-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/ Specification
	Uninterruptible Power System (UPS)-Part 1: General and Safety requirements for UPS	Limited Power Source Clause- 5.2.5	IEC 62040-1
		Protective Earthling and Protective Bonding - General Clause-5.3.1	IEC 62040-1
		Protective Earthling Clause- 5.3.2	IEC 62040-1
		Protective Bonding Clause- 5.3.3	IEC 62040-1
		AC and DC Power Isolation Clause- 5.4	IEC 62040-1
		Over Current and Earth fault Protection Clause- 5.5	IEC 62040-1
		Protection of Personnel –Safety interlocks Clause-5.6	IEC 62040-1
		Clearance, Creepage Distance and Distance Through Insulation Clause- 5.7	IEC 62040-1
		Wiring connection and Supply –General Clause- 6.1	IEC 62040-1
		General Provision for Connection to Power Clause- 6.2.1	IEC 62040-1
		Wiring terminals for External Power Conductor Clause- 6.3	IEC 62040-1
		Stability Clause- 7.2	IEC 62040-1

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/Specification
	Uninterruptible Power System (UPS)-Part 1: General and Safety requirements for UPS	Mechanical Strength Clause- 7.3	IEC 62040-1
		Construction Details –Introduction Clause- 7.4.1	IEC 62040-1
		Construction Details –openings Clause- 7.4.2	IEC 62040-1
		Equipment Movement Clause- 7.4.4	IEC 62040-1
		Case Insulation Clause- 7.6.4	IEC 62040-1
		Temperature Rise Clause- 7.7	IEC 62040-1
		General Provision for Earth Leakage Clause- 8.1	IEC 62040-1
		Electric Strength Clause- 8.2	IEC 62040-1
		Abnormal Operating and Fault Conditions Clause- 8.3,8.3.1,8.3.2,8.3.3	IEC 62040-1
		Connection to Telecommunication Networks Clause- 9	IEC 62040-1
2.	Safety Requirement for Radio Transmitting Equipment's	Creepage and Clearance Distances Annexure-A	IEC 60215 (Edition 4:2016)
		Fault Conditions Tests Clause- 5.3	IEC 60215 (Edition 4:2016)
		Resistance to Humidity Clause- 6.3.2	IEC 60215 (Edition 4:2016)
		Resistance to Ingress of Water Clause- 6.3.3	IEC 60215 (Edition 4:2016)

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/Specification
	Safety Requirement for Radio Transmitting Equipment's	Markings Relevant to Safety Clause- 6.4	IEC 60215 (Edition 4:2016)
		Protection against Harmful Electric Shock and Radio Frequency Skin Burns Clause- 7.1	IEC 60215 (Edition 4:2016)
		Earthing Clause- 7.2	IEC 60215 (Edition 4:2016)
		Enclosures Clause- 7.3	IEC 60215 (Edition 4:2016)
		Mechanical Considerations Concerning Safety Devices Clause- 7.4	IEC 60215 (Edition 4:2016)
		Wiring and Termination Clause- 7.5	IEC 60215 (Edition 4:2016)
		Insulation Clause- 7.6	IEC 60215 (Edition 4:2016)
		Voltage at the radio – Frequency Output Connection Clause- 7.7	IEC 60215 (Edition 4:2016)
		High Temperatures Clause-8.2	IEC 60215 (Edition 4:2016)
		Fire Clause-8.3	IEC 60215 (Edition 4:2016)
3.	Environmental Testing of Telecom Equipment	Damp Heat Cyclic Test	QM 333, Issue March 2010
		Damp Heat Steady State Test	QM 333, Issue March 2010
		Change of Temperature Test	QM 333, Issue March 2010

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/Specification
	Environmental Testing of Telecom Equipment	Cold (Low temperature) Test	QM 333, Issue March 2010
		Dry Heat (High temperature) Test	QM 333, Issue March 2010
4.	Audio/Video, Information and Communication Technology Equipment-Part 1: Safety Requirement	Energy Source Classifications Clause-4.2	IEC 62368-1
		Steady Force Tests Clause- 4.4.3.2, Annex- T3, T5	IEC 62368-1
		Drop Tests Clause- 4.4.3.3, Annex- T7	IEC 62368-1
		Impact Test Clause- 4.4.3.4, Annex- T6	IEC 62368-1
		Glass Impact Test Clause- 4.4.3.6, Annex- T9	IEC 62368-1
		Glass Fixation Test Clause- 4.4.3.7, Annex- T9	IEC 62368-1
		Thermoplastic Material Test Clause- 4.4.3.8, Annex- T8	IEC 62368-1
		Air comprising a Safeguard Clause- 4.4.3.9, Annex- T	IEC 62368-1
		Safety Interlocks Clause- 4.4.5, Annex- K	IEC 62368-1
		Fixing of Conductors Clause- 4.6	IEC 62368-1
		Equipment for Direct insertion in to Mains Socket-Outlets Clause- 4.7	IEC 62368-1
		Crush Test Clause- 4.8.4.6	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-Part 1: Safety Requirement	Compliance Criteria (Force Test) Clause- 4.8.5	IEC 62368-1
	Safeguards against Transient Voltages from External Circuits (Requirements) Clause- 5.4.10.1	IEC 62368-1
	Impulse Test Clause- 5.4.10.2.2	IEC 62368-1
	Steady-State Test (Electric Strength Test) Clause- 5.4.10.2.3	IEC 62368-1
	Compliance Criteria (IR Tester) Clause- 5.4.10.3	IEC 62368-1
	Insulating Compound forming cemented joints Clause- 5.4.4.5	IEC 62368-1
	Thin Sheet Material Clause-5.4.4.6.1, 5.4.4.6.2, 5.4.4.6.3, 5.4.4.6.4	IEC 62368-1
	Mandrel Test Clause- 5.4.4.6.5	IEC 62368-1
	Solid Insulation in Wound Components Clause- 5.4.4.7	IEC 62368-1
	Compliance Criteria Clause- 5.4.4.8	IEC 62368-1
	Antenna Terminal Insulation –Test Method Clause- 5.4.5.2	IEC 62368-1
	Insulation of Internal Wire Clause-5.4.6	IEC 62368-1
	Humidity Conditioning Clause-5.4.8	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-Part 1: Safety Requirement	Requirement for Protective Earthing Conductors Clause- 5.6.3	IEC 62368-1
		Resistance of the Protective Bonding System (Earth bond Test) Clause- 5.6.4, 5.6.6	IEC 62368-1
		Terminals for Protective Conductors Clause- 5.6.5	IEC 62368-1
		Reliable Connection of a Protective Earthing Conductor Clause- 5.6.7	IEC 62368-1
		Telescoping or Rod Antennas Clause- 8.12 & Annex- T.11	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
		Equipment Markings, Instructions and Instructional Safeguards Clause- Annex- F	IEC 62368-1
		Input Test Clause- Annex- B.2.5	IEC 62368-1
		Simulated Abnormal Operating Conditions Clause- Annex- B.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-Part 1: Safety Requirement	Simulated Single Fault Conditions Clause-Annex- B.4	IEC 62368-1
		Test Generator Clause- Annex- D	IEC 62368-1
		Criteria for Telephone Ringing Signals (TNV Circuit Test) Clause- Annex- H	IEC 62368-1
		Safety Interlocks Clause- Annex- K	IEC 62368-1
		Disconnect Devices Clause- Annex- L	IEC 62368-1
		Safeguards Against Conductive Object Clause- Annex- P	IEC 62368-1
		Circuit Intended for Interconnection with Building Wiring Clause-Annex- Q	IEC 62368-1
		Mechanical Strength Test Clause- Annex- T.1,T.2,T.3,T.4 & T.5	IEC 62368-1
		Glass Fragmentation Test Clause-Annex- T.10	IEC 62368-1
		Enclosure Impact Test Clause- Annex- T.6 & T.9	IEC 62368-1
		Drop Test Clause-Annex- T.7	IEC 62368-1
		Stress Relief Test Clause-Annex- T.8	IEC 62368-1
		Determine of Accessible Parts Clause-Annex -V	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-Part 1: Safety Requirement	Special Categories of Equipment Containing Moving Parts Clause-8.5.4	IEC 62368-1
	Equipment Design and Construction Clause-4.1.3	IEC 62368-1
	Protection Against Energy Sources Clause-4.3	IEC 62368-1
	Compliance Criteria Clause-4.4.3.10, Annex- T10	IEC 62368-1
	Internal Accessible Safeguard Test Clause-4.4.3.5, Annex- T3	IEC 62368-1
	Explosion Clause-4.5, Annex- M	IEC 62368-1
	Accessibility to Electrical Energy Sources and Safeguards Requirements Clause-5.3.2.1	IEC 62368-1
	Contact Requirements Clause-5.3.2.2	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
	Ball Pressure Test Clause-5.4.1.10.3	IEC 62368-1
	Compliance Criteria (Humidity Treatment) Clause- 5.4.1.3	IEC 62368-1
	Maximum Operating Temperature (Temperature Measurement) Clause- 5.4.1.4	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-Part 1: Safety Requirement	Insulation in Transformers with Varying Dimensions Clause- 5.4.1.6	IEC 62368-1
	Insulation in Circuit generating Starting Pluses Clause- 5.4.1.7	IEC 62368-1
	Determination of Working Voltage Clause- 5.4.1.8	IEC 62368-1
	Clearness Creepage Clause-5.4.2, 5.4.3 & Annex- O	IEC 62368-1
	Solid Insulation General Requirements Clause- 5.4.4.1	IEC 62368-1
	Minimum Distance Through Insulation Clause-5.4.4.2	IEC 62368-1
	Insulating Compound forming Solid Insulation Clause- 5.4.4.3	IEC 62368-1
	Solid Insulation in Semiconductor Devices Clause 5.4.4.4	IEC 62368-1
	Antenna Terminal Insulation Compliance Criteria Clause- 5.4.5.3	IEC 62368-1
	Electric Strength Test Clause- 5.4.9	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

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/Specification
	Audio/Video, Information and Communication Technology Equipment-Part 1: Safety Requirement	Back Feed Safeguard in Battery backed up Supplies Clause- 5.8	IEC 62368-1
		Power Source Circuit Classification Clause- 6.2.2	IEC 62368-1
		Classification of Potential Ignition Source Clause-6.2.3	IEC 62368-1
		Internal and External Wiring Clause- 6.5	IEC 62368-1
		Safeguard against Fire due to the Connection of Additional Equipment Clause- 6.6	IEC 62368-1
		Injury caused by Hazardous Substances Clause- 7	IEC 62368-1
		Cart, Stand or Carrier loading Test Clause- 8.10.3	IEC 62368-1
		Cart, Stand or carrier impact Test Clause- 8.10.4	IEC 62368-1
		Thermoplastic Temperature Stability Clause- 8.10.6	IEC 62368-1
		Mounting means for Rack Mounted Equipment Clause- 8.11	IEC 62368-1
		Mechanical Energy Source Classification Clause- 8.2	IEC 62368-1
		Safeguard against Parts with Sharp Edges and Corners Clause- 8.4	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- Part 1: Safety Requirement	Compliance Criteria (Safeguards against Moving Parts) Clause- 8.5.3	IEC 62368-1
		Static Stability Clause- 8.6.2	IEC 62368-1
		Relocation Stability Clause-8.6.3	IEC 62368-1
		Glass Side Test Clause-8.6.4	IEC 62368-1
		Horizontal Force Test Clause-8.6.5	IEC 62368-1
		Equipment Mounted to a Wall or Ceiling Clause-8.7	IEC 62368-1
		Handle Strength Clause- 8.8	IEC 62368-1
		Wheels or Casters Attachment Requirement Clause- 8.9	IEC 62368-1
		Thermal Energy Classification Clause- 9.2	IEC 62368-1
		Touch Temperature Limit Clause-9.3	IEC 62368-1
		Requirements for Wireless Power Transmitters Clause-9.6	IEC 62368-1
		Components Requirement (Disconnect Device) Clause- 4.10.1	IEC 62368-1
		Components Requirements (Switches and Relays) Clause- 4.10.2	IEC 62368-1

***The validity of Certificate is up to 28/09/2027 or the continued validity of NABL Accreditation, whichever is earlier.**

SCOPE OF DESIGNATION

(ANNEXURE)

**Laboratory Name: M/s REACT COMPLIANCE & TESTING
LABORATORIES LLP, BENGALURU
3411, 3rd Floor, Service Road, Vijayanagar,
Bengaluru-560 040**

Certificate Number: TEC/MRA/CAB/IND-D/77

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Validity: 06/12/2024 to 28/09/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing#	Standard/Specification
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Audio/Video, Information and Communication Technology Equipment- Part 1: Safety Requirement	Likelihood of Fire Shock due to Entry of Conductive Object Clause- 4.9	IEC 62368-1
	Classification and Limits of Electrical Energy Sources Clause- 5.2	IEC 62368-1
	Insulating Surfaces Clause-5.4.1.9	IEC 62368-1
	Separation between External Circuits and Earth Clause- 5.4.11	IEC 62368-1
	Compliance Criteria (Measurement of Protective Bonding Conductor) Clause- 5.6.4.3	IEC 62368-1
	Mechanical Stability Clause-8.10.5	IEC 62368-1

AD (CA), TEC

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