



**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 AA Electro Magnetic Test Laboratory Private Limited,
Gurugram**

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

Plot N0. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016, Haryana

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/63

Issue Date: 09/08/2023

Validity: 10/08/2023 to 09/08/2026

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

**Vijay Dixit
Director (CA)
For Designating Authority
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/63 dated 09/08/2023 issued to
M/s AA Electro Magnetic Test Laboratory Private Limited,
Plot NO. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016**



Validity: - 10/08/2023 to 09/08/2026

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESSMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESSMENT 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.

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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.

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s AA Electro Magnetic Test Laboratory Private Limited,
Plot N0. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016

Certificate Number: TEC/MRA/CAB/IND-D/63

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Validity: 10/08/2023 to 09/08/2026

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	Information Technology 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 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
		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
		Safety Interlocks (Clause 2.8.1, 2.8.4, 2.8.6, 2.8.8)	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

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Information Technology Equipment-Safety Requirement	Wiring, connections and supply (Clause 3.0, 3.1, 3.2, 3.3, 3.4, 3.5)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Stability (Clause 4.1)	IEC:60950-1: 2005+ A1:2009+A2:2013
		Mechanical strength (impact, Drop, Stress relief) & Design and construction (Clause 4.2, 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
		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 6.0)	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
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	Information Technology Equipment-Safety Requirement	Connection to cable distribution networks (Clause 7.0)	IEC:60950-1: 2005+ A1:2009+A2:2013
2.	Audio/video, information and communication technology Equipment-Safety Requirements	Electric Strength (Clause 5.4.9)	IEC-62368-1: 2018 (Ed.2.0)
		Equipment for direct insertion into mains socket-outlets (Clause 4.7)	IEC-62368-1: 2018 (Ed.2.0)
		Equipment having an Electro-mechanical device for destruction of media (Clause 8.5.4.2)	IEC-62368-1: 2018 (Ed.2.0)
		Equipment mounted to a wall or ceiling (Clause 8.7 to 8.12)	IEC-62368-1: 2018 (Ed.2.0)
		Glass slide test (Clause 8.6.4)	IEC-62368-1: 2018 (Ed.2.0)
		Handle strength method (Clause 8.8)	IEC-62368-1: 2018 (Ed.2.0)
		Horizontal force test (Clause 8.6.5)	IEC-62368-1: 2018 (Ed.2.0)
		Humidity Treatment (Clause 5.4.8)	IEC-62368-1: 2018 (Ed.2.0)
		Max operating temperatures for materials, component and systems (Clause 5.4.1.4, 9.2.5)	IEC-62368-1: 2018 (Ed.2.0)

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/video, information and communication technology Equipment-Safety Requirements	Mechanical energy source classification (Clause 8.2)	IEC-62368-1: 2018 (Ed.2.0)
		Power source circuit classification (Clause 6.2.2)	IEC-62368-1: 2018 (Ed.2.0)
		Preventive touch voltage, touch current & protective conductor current (Clause 5.7)	IEC-62368-1: 2018 (Ed.2.0)
		Protection against energy sources (Clause 4.3)	IEC-62368-1: 2018 (Ed.2.0)
		Resistance of protective conductors and their terminations (Clause 5.6.4.1)	IEC-62368-1: 2018 (Ed.2.0)
		Safeguards against transient voltages from external circuits (Clause 5.4.10)	IEC-62368-1: 2018 (Ed.2.0)
		Separation between external circuit and earth (Clause 5.4.11)	IEC-62368-1: 2018 (Ed.2.0)
		Static stability for floor standing equipment (Clause 8.6.2)	IEC-62368-1: 2018 (Ed.2.0)
		Steady state voltage and current limits (Clause 5.2.2.2)	IEC-62368-1: 2018 (Ed.2.0)
		Top opening and top openings properties (Clause 6.4.8.3.3)	IEC-62368-1: 2018 (Ed.2.0)

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
3.	EMI/EMC Testing for Telecom Equipment	Electrostatic discharge immunity test (IEC 61000-4-2:2008)	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated, radio-frequency electromagnetic field immunity test (IEC 61000-4-3 :2010)	TEC/SD/DD/ EMC-221/05/OCT-16
		Electrical fast transient/burst immunity test (IEC 61000-4-4: 2012)	TEC/SD/DD/ EMC-221/05/OCT-16
		Surge immunity test (IEC 61000-4-5: 2017)	TEC/SD/DD/ EMC-221/05/OCT-16
		Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013)	TEC/SD/DD/ EMC-221/05/OCT-16
		Voltage dips, short interruption and voltage variations immunity tests (IEC 61000-4-11:2017)	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 22	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated Emission CISPR 22	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 11	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated Emission CISPR 11	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 32	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 for Telecom Equipment	Radiated Emission CISPR 32	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 14-1	TEC/SD/DD/ EMC-221/05/OCT-16
		Radiated Emission CISPR 14-1	TEC/SD/DD/ EMC-221/05/OCT-16
		Conducted Emission CISPR 25	TEC/SD/DD/ EMC-221/05/OCT-16
		Electrostatic Discharge Immunity test ITU-T K.21	TEC/SD/DD/ EMC-221/05/OCT-16
		High Energy/Telecom Surge immunity test ITU-T K. 21	TEC/SD/DD/ EMC-221/05/OCT-16
		High Energy/ Telecom Surge immunity test ITU-T K. 44	TEC/SD/DD/ EMC-221/05/OCT-16
4.	Equipment operating in 2.4 GHz, 5GHz, 5.8 GHz frequency bands	RF Power output, Transmit Power control (TPC), Power Density (Clause 4.2.3:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Adpativity (Clause 4.2.7:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Carrier frequencies (Clause 4.2.1:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Dynamic Frequency Selection(DFS) (Clause 4.2.6.2:2017)	ETSI EN 301 893 V2.1.1 (2017-05)

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment operating in 2.4 GHz, 5GHz, 5.8 GHz frequency bands	Geo-location capability (Clause 4.2.10:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Nominal and occupied channel bandwidth (Clause 4.2.2:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Receiver Blocking (Clause 4.2.8:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Receiver spurious emission (Clause 4.2.5:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Transmitter unwanted emissions outside the 5GHz RLAN bands (Clause 4.2.4.1:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
		Transmitter unwanted emissions within the 5GHz RLAN bands (Clause 4.2.4.2:2017)	ETSI EN 301 893 V2.1.1 (2017-05)
5.	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	Component (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 Hazards (Clause 5.1)	IEC 62040-1: 2008
		Requirements for Auxiliary Circuits (Clause 5.2)	IEC 62040-1: 2008

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	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
		Wiring terminal for external power conductor (Clause 6.3)	IEC 62040-1: 2008
		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

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	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 requirement and Simulated abnormal conditions (Clause 8)	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

AD (CA), TEC

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