



सत्यमेव जयते

GOVERNMENT OF INDIA
TELECOMMUNICATION ENGINEERING CENTRE
(Department of Telecommunications)
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001

CERTIFICATE OF DESIGNATION

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

Dated: 10/08/2020

This is to certify that **M/s AA Electro Magnetic Test Laboratory Private Limited, Gurugram** has qualified the criteria for designation as CONFORMITY ASSESSMENT BODY (CAB), as described below, to carry out product testing activities specified in the Annexure-I subject to the terms and conditions specified in Annexure-II.

CAB DESCRIPTION


Name of CAB : **M/s AA Electro Magnetic Test Laboratory Private Limited, Gurugram.**

Address of CAB : Plot NO. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-122016, Haryana

CAB Identification : IND063

Date of Issue : 10/08/2020

Date of Expiry : 3 Years from date of issue of this certificate or till the continued Validity of Certificate issued by NABL, whichever is earlier.


10/08/2020

Kamal Bhagat
Deputy Director General (MRA)
For Designating Authority
TEC



Annexure-I Certificate No: TEC/MRA/CAB/IND-D/63 dated 10/08/2020 issued to
M/s AA Electro Magnetic Test Laboratory Private Limited,
Gurugram.

Sl. No.	1	2	3	4
	Telecom Equipment/Product	Type of Testing	Technical Regulation	Date of Designation
1.	Information Technology Equipment- Safety Requirement	All types of testing covered in Technical regulations mentioned in column 3 only for following tests: 1 Power Interface (Clause 1.6) 2 Verification of Markings and instructions (Clause 1.7) 3 Protection from hazards (Clause 2.1) 4 SELV Circuits (Clause 2.2) 5 TNV Circuit (Clause 2.3) 6 Limited current circuit (Clause 2.4) 7 Limited Power sources (Clause 2.5) 8 Provisions for earthing and bonding (Clause 2.6) 9 Over current and earth fault protection in primary circuits (Clause 2.7) 10 Safety Interlocks (Clause 2.8.1, 2.8.4, 2.8.6, 2.8.8) 11 Electrical Insulation (Clause 2.9) 12 Clearances and Creepage distances and distance through insulation (Clause 2.10)	IEC:60950-1: 2005+A1:2009 +A2:2013	10/08/2020

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		<p>13 Wiring, connections and supply (Clause 3.0, 3.1, 3.2, 3.3, 3.4, 3.5)</p> <p>14 Stability (Clause 4.1)</p> <p>15 Mechanical strength (impact, Drop, Stress relief) & Design and construction (Clause 4.2, 4.3)</p> <p>16 Protection against hazardous moving parts (Clause 4.4)</p> <p>17 Thermal Requirements (Clause 4.5)</p> <p>18 Opening in enclosure (Clause 4.6)</p> <p>19 Resistance to fire (Clause 4.7)</p> <p>20 Touch current and protective conductor current (Clause 5.1)</p> <p>21 Electric strength (Clause 5.2)</p> <p>22 Abnormal operating and fault conditions (Clause 5.3)</p> <p>23 Connection to telecommunication network (Clause 6.0)</p> <p>24 Connection to cable distribution networks (Clause 7.0)</p>		
2.	Audio/video, information and communication technology equipment-Safety Requirements	<p>All types of testing covered in Technical regulations mentioned in column 3 only for following tests:</p> <p>1 Electric Strength (Clause 5.4.9)</p> <p>2 Equipment for direct insertion into mains socket-outlets (Clause 4.7)</p>	IEC-62368-1: 2018(Ed.2.0)	10/08/2020

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		<p>3 Equipment having an Electro-mechanical device for destruction of media (Clause 8.5.4.2)</p> <p>4 Equipment mounted to a wall or ceiling (Clause 8.7 to 8.12)</p> <p>5 Glass slide test (Clause 8.6.4)</p> <p>6 Handle strength method (Clause 8.8)</p> <p>7 Horizontal force test (Clause 8.6.5)</p> <p>8 Humidity Treatment (Clause 5.4.8)</p> <p>9 Max operating temperatures for materials, component and systems (Clause 5.4.1.4, 9.2.5)</p> <p>10 Mechanical energy source classification (Clause 8.2)</p> <p>11 Power source circuit classification (Clause 6.2.2)</p> <p>12 Preventive touch voltage, touch current & protective conductor current (Clause 5.7)</p> <p>13 Protection against energy sources (Clause 4.3)</p> <p>14 Resistance of protective conductors and their terminations (Clause 5.6.4.1)</p> <p>15 Safeguards against transient voltages from external circuits (Clause 5.4.10)</p> <p>16 Separation between external circuit and earth (Clause 5.4.11)</p>		
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		<p>17 Static stability for floor standing equipment (Clause 8.6.2)</p> <p>18 Steady state voltage and current limits (Clause 5.2.2.2)</p> <p>19 Top opening and top openings properties (Clause 6.4.8.3.3)</p>		
3.	EMI/EMC Testing for Telecom Equipment	<p>All types of testing covered in Technical regulations mentioned in column 3 only for following tests:</p> <ol style="list-style-type: none"> 1. Electrostatic discharge immunity test (IEC 61000-4-2:2008) 2. Radiated , radio-frequency electromagnetic field immunity test (IEC 61000-4-3 :2010) 3. Electrical fast transient/burst immunity test (IEC 61000-4-4: 2012) 4. Surge immunity test (IEC 61000-4-5: 2017) 5. Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013) 6. Voltage dips, short interruption and voltage variations immunity tests (IEC 61000-4-11:2017) 7. Conducted Emission CISPR 22 8. Radiated Emission CISPR 22 9. Conducted Emission CISPR 11 10. Radiated Emission CISPR 11 11. Conducted Emission CISPR 32 	TEC/SD/DD/ EMC-221/05/ OCT-16	10/08/2020

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		<p>12. Radiated Emission CISPR 32</p> <p>13. Conducted Emission CISPR 14-1</p> <p>14. Radiated Emission CISPR 14-1</p> <p>15. Conducted Emission CISPR 25</p> <p>16. Electrostatic Discharge Immunity test ITU-T K.21</p> <p>17. High Energy/Telecom Surge immunity test ITU-T K. 21</p> <p>18. High Energy/ Telecom Surge immunity test ITU-T K. 44</p>		
4.	Equipment operating in 2.4 GHz, 5GHz, 5.8 GHz frequency bands	<p>All types of testing covered in Technical regulations mentioned in column 3 only for following tests:</p> <ol style="list-style-type: none"> 1. RF Power output, Transmit Power control (TPC), Power Density (Clause 4.2.3:2017) 2. Adpativity (Clause 4.2.7:2017) 3. Carrier frequencies (Clause 4.2.1;2017) 4. Dynamic Frequency Selection(DFS) (Clause 4.2.6.2:2017) 5. Geo-location capability (Clause 4.2.10:2017) 6. Nominal and occupied channel bandwidth (Clause 4.2.2:2017) 7. Receiver Blocking (Clause 4.2.8:2017) 8. Receiver spurious emission (Clause 4.2.5:2017) 	ETSI EN 301 893 V2.1.1 (2017-05)	10/08/2020

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		<p>9. Transmitter unwanted emissions outside the 5GHz RLAN bands (Clause 4.2.4.1:2017)</p> <p>10. Transmitter unwanted emissions within the 5GHz RLAN bands (Clause 4.2.4.2:2017)</p>		
5.	Uninterruptible Power Systems (UPS) part 1 General and safety requirements for UPS	<p>All types of testing covered in Technical regulations mentioned in column 3 only for following tests:</p> <ol style="list-style-type: none"> 1. Component (Clause 4.5) 2. Power Interface (Clause 4.6) 3. Marking & Instructions (Clause 4.7) 4. Protection Against Electric Shock and Hazards (Clause 5.1) 5. Requirements for Auxiliary Circuits (Clause 5.2) 6. Protective Earthing and Bonding (Clause 5.3) 7. AC and DC Power isolation (Clause 5.4) 8. Over Current and Earth Fault Protection (Clause 5.5) 9. Protection of Personnel-Safety Interlocks (Clause 5.6) 10. Clearance, Creepage Distance and Distance Through Insulation (Clause 5.7) 11. Wiring connections and supply (Clause 6) 	IEC 62040-1: 2008	10/08/2020

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		<p>12. Connection to Power (Clause 6.2)</p> <p>13. Wiring terminal for external power conductor (Clause 6.3)</p> <p>14. Enclosure (Clause 7.1)</p> <p>15. Stability (Clause 7.2)</p> <p>16. Mechanical Strength (Clause 7.3)</p> <p>17. Construction Details (Clause 7.4)</p> <p>18. Resistance to Fire (Clause 7.5)</p> <p>19. Battery Location (Clause 7.6)</p> <p>20. Temperature Rise (Clause 7.7)</p> <p>21. Electrical requirement and Simulated abnormal conditions (Clause 8)</p> <p>22. Electric Strength (Clause 8.2)</p> <p>23. Abnormal Operating and Fault Conditions (Clause 8.3)</p> <p>24. Connection to Telecommunication Networks (Clause 9)</p>		
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Annexure-II Certificate No: TEC/MRA/CAB/IND-D/63 dated 10/08/2020 issued to M/s AA Electro Magnetic Test Laboratory Private Limited, Gurugram.

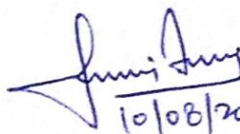
Terms & Conditions:


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 other 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.
9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of it occurrence


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- 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

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

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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