



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/47

Dated: 20.05.2019

This is to certify that **M/s Matrix Test Labs, Delhi** 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 Matrix Test Labs, Delhi**

Address of CAB : Plot No. 28, Badli Industrial Area, Phase-II, Delhi-110042

CAB Identification : IND047

Date of Issue : 20.05.2019

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.

D. K. Khanna 20.05.19
Deputy Director General (MRA)
For Designating Authority
TEC



Annexure-I Certificate No: TEC/MRA/CAB/IND-D/47 dated 20.05.2019 issued to
M/s Matrix Test Labs, Delhi.

Sl. No.	1	2	3	4
	Telecom Equipment/Product	Type of Testing	Technical Regulation	Date of Designation
1.	Information Technology Equipment- Safety Requirements	All types of testing covered in Technical regulations mentioned in column 3 only for following tests: 1 Components (Clause 1.5) 2 Power Interface (Clause 1.6) 3 Verification of Marking and Instructions (Clause 1.7) 4 Protection from electric shock and energy hazards (Clause 2.1) 5 SELV circuits (Clause 2.2) 6 Limited Current Circuits (Clause 2.4) 7 Limited Power Source (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 Electrical Insulation (Clause 2.9) 11 Clearances, Creepage Distances and distances through insulation (Clause 2.10) 12 Wiring, connection and supply-General (Clause 3.1)	IEC 60950-1:2005 A1:2009, A2:2013	20/05/2019

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		<p>13 Connection to Mains Supply (Clause 3.2)</p> <p>14 Wiring terminals for external conductors (Clause 3.3)</p> <p>15 Disconnection from the mains Supply (Clause 3.4)</p> <p>16 Interconnection of equipment (Clause 3.5)</p> <p>17 Mechanical strength (Clause 4.2)</p> <p>18 Steady Force test, 10N (Clause 4.2.2)</p> <p>19 Steady Force test, 30N (Clause 4.2.3)</p> <p>20 Steady Force test, 250N (Clause 4.2.4)</p> <p>21 Impact test to enclosure (Clause 4.2.5)</p> <p>22 Drop test (Clause 4.2.6)</p> <p>23 Stress relief test (Clause 4.2.7)</p> <p>24 High pressure lamps (Clause 4.2.9)</p> <p>25 Wall or ceiling mounted equipment (Clause 4.2.10)</p> <p>26 Edges and Corners (Clause 4.3.1)</p> <p>27 Handles and manual controls (Clause 4.3.2)</p> <p>28 Adjustable controls (Clause 4.3.3)</p> <p>29 Securing of parts (Clause 4.3.4)</p> <p>30 Connection by plugs and sockets (Clause 4.3.5)</p> <p>31 Direct plug-in Equipment (Clause 4.3.6)</p>		
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		<p>32 Heating elements in earthed equipment (Clause 4.3.7)</p> <p>33 Batteries (Clause 4.3.8)</p> <p>34 Protection against hazardous moving parts (Clause 4.4)</p> <p>35 Thermal requirements (Clause 4.5)</p> <p>36 Opening in enclosure (Clause 4.6)</p> <p>37 Resistance to fire (Clause 4.7)</p> <p>38 Touch current and Protective conductor current (Clause 5.1)</p> <p>39 Electric Strength (Clause 5.2)</p> <p>40 Abnormal operating and fault conditions (Clause 5.3)</p> <p>41 Connection to telecommunication network (Clause 6)</p> <p>42 Connection to cable distribution system (Clause 7)</p>		
2.	Environmental Testing for Telecom Equipment	<p>All types of testing covered in Technical regulations mentioned in column 3 only for following tests:</p> <p>1 Low temperature (Cold) Cycle</p> <p>2 High temperature (dry Heat) Cycles</p> <p>3 Tropical Exposure (Damp Heat) Cycle</p> <p>4 Rapid temperature cycling test</p> <p>5 Damp Heat (steady state)</p> <p>6 Vibration</p> <p>7 Sealing Test (Gas Tightness)/ High altitude test</p>	QM-333 March 2010	20/05/2019

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		8 Water immersion 9 Corrosion salt 10 Drop test 11 Topple test 12 Fall test 13 Bump/road ability test 14 Rain test 15 Dust test		
3.	Uninterruptible Power System (UPS)-Safety Requirement	All types of testing covered in Technical regulations mentioned in column 3 only for following tests: 1 Power Interface (Clause 4.6) 2 Marking & Instructions-General (Clause 4.7.1) 3 Power rating (Clause 4.7.2) 4 High leakage current (Clause 4.7.13) 5 Battery (Clause 4.7.20) 6 Protection Against Electric Shock and Energy Hazards (Clause 5.1) 7 Safety extra low voltage circuits-SELV (Clause 5.2.1) 8 Limited current circuits (Clause 5.2.3) 9 External signalling circuits (Clause 5.2.4) 10 Limited power source (Clause 5.2.5) 11 Protective Earthing and Bonding (Clause 5.3) 12 AC and DC Power Separation (Clause 5.4) 13 Over Current and Earth Fault Protection (Clause 5.5)	IEC 62040-1:2008	20/05/2019

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		<p>14 Protection of Personnel-Safety Interlocks (Clause 5.6)</p> <p>15 Clearance, Creepage Distance and Distance Through Insulation (Clause 5.7)</p> <p>16 Wiring, Connection and Supply-General (Clause 6.1)</p> <p>17 General provisions for connection to power (Clause 6.2.1)</p> <p>18 Wiring terminals for external power conductors (Clause 6.3)</p> <p>19 Mechanical Strength (Clause 7.3)</p> <p>20 Construction Details (Clause 7.4)</p> <p>21 Resistance to Fire (Clause 7.5)</p> <p>22 Battery Location (Clause 7.6)</p> <p>23 Temperature Rise (Clause 7.7)</p> <p>24 General Provisions for Earth Leakage (Clause 8.1)</p> <p>25 Electric Strength (Clause 8.2)</p> <p>26 Abnormal Operating and Fault Conditions (Clause 8.3)</p> <p>27 Connection to Telecommunication Networks (Clause 9)</p>		
4.	Secondary cells and batteries containing alkaline or other non-acid electrolytes -Safety Requirements	<p>All types of testing covered in Technical regulations mentioned in column 3 only for following tests:</p> <p>1 External short circuit(cell) - For Lithium (Clause 8.3.1)</p>	IEC 62133:2012*	20/05/2019

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		<p>2 External short circuit(battery) - For Lithium (Clause 8.3.2)</p> <p>3 Thermal abuse (cells) - For Lithium (Clause 8.3.4)</p> <p>4 Crush (cells)- For Lithium (Clause 8.3.5)</p> <p>5 Overcharging of battery - For Lithium (Clause 8.3.6)</p> <p>6 Forced discharge - For Lithium (Clause 8.3.7)</p>		
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***Note- Valid till 14th March, 2020 as this older version of standard will be superseded by newer version i.e. IEC 62133-2:2017.**

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Annexure-II Certificate No: TEC/MRA/CAB/IND-D/47 dated 20.05.2019 issued to
M/s Matrix Test Labs, Delhi.

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.
9. It shall notify the DA in writing of occurrence of any of the following incidence within 2 weeks of its 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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