



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



सत्यमेव जयते

## CERTIFICATE OF DESIGNATION

Certificate No. TEC/MRA/CAB/IND-D/38

Dated: 15.02.2019

This is to certify that **M/s EMC Division, SAMEER- Centre for Microwave Research, Mumbai** 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 EMC Division, SAMEER- Centre for Microwave Research, Mumbai.**

Address of CAB : Sector-7, Rain Tree Marg, CBD-Belapur, Navi Mumbai-400614, Maharashtra

CAB Identification : IND038

Date of Issue : 15.02.2019

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.

  
15.02.19.

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



**Annexure-I** Certificate No: TEC/MRA/CAB/IND-D/38 dated 15.02.2019 issued to  
**M/s EMC Division, SAMEER- Centre for Microwave Research, Mumbai.**

Sl. No.	1	2	3	4
	Telecom Equipment/Product	Type of Testing	Technical Regulation	Date of Designation
1.	EMI/ EMC Testing of Telecommunication equipment	All types of testing covered in Technical regulations mentioned in column 3 only for following tests:  1 Conducted Emission CISPR 11 2 Conducted Emission CISPR 22 3 Radiated Emission CISPR 11 * 4 Radiated Emission CISPR 22 * 5 Electrostatic Discharge (ESD) IEC 61000-4-2 6 RF Radiated Immunity IEC 61000-4-3 * 7 Electrical Fast Transient (EFT) IEC 61000-4-4 * 8 Surge Immunity IEC 61000-4-5 9 RF Conducted Immunity IEC 61000-4-6 10 Voltage dips and short interruptions IEC 61000-4-11	TEC/SD/DD/EM C-221/05/OCT-16	15/02/2019
2.	Information Technology Equipment- Safety Requirement	All types of testing covered in Technical regulations mentioned in column 3 only for following tests:  1 Input Current (Clause 1.6.2) 2 Marking & Instruction (Clause 1.7) 3 Access to energized parts (Clause 2.1.1.1)	IEC 60950-1:2005 A1:2009, A2:2013	15/02/2019

*Signature*  
15/02/19

		<p>4 Energy Hazards (Clause 2.1.1.5)</p> <p>5 Discharge of Capacitors (Clause 2.1.1.7)</p> <p>6 Energy Hazard- DC Main Supply (Clause 2.1.1.8)</p> <p>7 SELV Circuits (Clause 2.2)</p> <p>8 TNV Circuits (Clause 2.3.1/ 2.3.2/ 2.3.3/ 2.3.4)</p> <p>9 Limited Current Circuits (Clause 2.4)</p> <p>10 Limited Power Source (Clause 2.5)</p> <p>11 Protective Earthing conductor and Protective Bonding conductor (Clause 2.6.3)</p> <p>12 Humidity Conditioning (Clause 2.9.2)</p> <p>13 Clearance, Creepage distances &amp; Distances through Insulation (Clause 2.10.1/ 2.10.2/ 2.10.3/ 2.10.4/ 2.10.5.9/ 2.10.5.10)</p> <p>14 Abrasion Resistance Test (Clause 2.10.8.4)</p> <p>15 Termination of Conductor (Clause 3.1.9)</p> <p>16 Cord anchorage and Strain relief (Clause 3.2.6)</p> <p>17 Stability (Clause 4.1)</p> <p>18 Steady Force (Clause 4.2.2/ 4.2.3)</p> <p>19 Drop test (Clause 4.2.6)</p> <p>20 Stress Relief Test (Clause 4.2.7)</p> <p>21 Wall or Ceiling mounted equipment (Clause 4.2.10)</p> <p>22 Handles and Manual controls (Clause 4.3.2)</p> <p>23 Direct Plug-in equipment (Clause 4.3.6)</p> <p>24 Hazardous Moving Parts (Clause 4.4.2/ 4.4.3)</p> <p>25 Thermal Requirements (Clause 4.5.2 to 4.5.4)</p> <p>26 Resistance to Abnormal heat (Clause 4.5.5)</p>		
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*1/17/19*

		27 Openings in transportable equipment (Clause 4.6.4) 28 Resistance to Fire (Clause 4.7.3) 29 Touch Current and Protective Conductor Current (Clause 5.1, Annex D) 30 Electric Strength (Clause 5.2) 31 Abnormal Operation and Fault Condition (Clause 5.3) 32 Connection to Telecom network (Clause 6.1) 33 Protection of Telecom wiring system from overheating (Clause 6.3)		
3.	Environmental Testing	All types of testing covered in Technical regulations mentioned in column 3 only for following tests:  1 Cold Test * 2 Dry Heat Test * 3 Damp Heat Test (Cyclic) * 4 Rapid Temperature Cycling Test * 5 Damp heat (Steady State) *	QM-333 ISSUE MARCH 2010	15/02/2019

**\* Note: - Certificate is issued on provisional basis for period of six month as per amendment issued dated 18/06/2018 for CAB designation scheme of TEC (Issue 2 No. TEC/DES-01/02. Dec. 2017).**

*Given*  
15/02/19