National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EMC DIVISION, SAMEER-CENTRE FOR ELECTROMAGNETICS, MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY, GOVERNMENT OF INDIA, 2ND CROSS ROAD, CIT CAMPUS, TARAMANI, CHENNAI, TAMIL NADU, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronic Product	Damped Oscillatory Magnetic Field test	IEC 61000-4-10:2016/BS EN 61000-4-10
2	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Automotive Conducted Emission/ Conducted Electrical Transient Emission Test	BS EN 55025:2017/CISPR 25:2021/ECER10.4:2020/SAEJ1113-41:2006/AIS004:2015/IEC61851-21-2:2018/ISO 7637-2:2011/"Withdrawn Standard" ISO 7637-2:2004/SAE J 1113-42:2010/FORD ES XW7T-1A278-AC/FORD FMC1278/FORD FMC1280/ECE R10.05
3	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Automotive Electrical Transient Immunity test	ISO 7637-2:2011/"Withdrawn Standard" ISO 7637-2:2004/ISO 7637-3:2016/SAE J 1113-11:2018/FORD ES XW7T-1A278-AC/FORD FMC1278/FORD FMC1280/ 2004/104/EC:2004/ISO 16750-2:2012/AIS 004:2015/ECE R10.05:2014/SAE J 1113-12
4	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Conducted Emission Test	BS EN 55011:2016+A2:2021/"Withdrawn Standard" BS EN 55022:2010/BS EN 55015:2019+A11:2020/BS EN 61000-6-3:2021/BS EN 61000-6-4:2019/BS EN 55014-1:2021/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/BS EN 55032:2015+A1:2020/BS EN 50121-3-2:2016+A1:2019/IEC 61000-6-3:2020/ IEC 61000-6-4:2018/IEC 60601-1-2:2014+A1:2020/ IEC 60255-26:2013/IEC 62040-2:2016/IEC 61800-3:2017/ "Withdrawn Standard" IEC 50091-2:1996/IEC 50121-4:2016+A1:2019/IEC 61326-1

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5	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Conducted Emission Test	CISPR 11:2015+A1:2016+A2:2019/CISPR14-1:2020,"Withdrawn Standard" CISPR 22:2008/CISPR 32:2015+A1:2019/CISPR 15:2018/FCC 15B/FCC 18:2016/ETSI 300386:2020/TEC/SD/DD/EMC-221/05/OCT-16/GR1089
6	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Conducted Emission test (MIL-STD)	CE101-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G:2015/CE102-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G
7	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Conducted RF Susceptibility /Bulk Current Injection test	IEC 61000-4-6:2013/IEC 62040-2:2016/IEC 60255-26:2013/ "Withdrawn Standard" IEC 62052-11:2016/ IEC 62052-11:2020/IEC 61000-6-1:2016/IEC 61000-6-2:2016/IEC 60601-1-2:2014+A1:2020/IEC 61000-6-5:2015/IEC 61851-21-2:2018/IEC 61800-3:2017/ "Withdrawn Standard" CISPR 24:2015/CISPR 14-2:2020/CISPR 35:2016/ETSI 300386:2020/GR1089:2017/EC ER10.4:2020/AIS 004
8	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Conducted Susceptibility test(MIL-STD)	CS101-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G:2015/CS114-MIL-STD 461E:1999/MIL-STD 461F:2007/MIL-STD 461G:2015 /CS115-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G:2015 /CS116-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G
9	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	DC Voltage dips, Short Interruption & Voltage Variations Immunity test	IEC 61000-4-29:2000/CISPR 35:2016/BS EN 61000-4-29:2001/BS EN 55035:2017+A11:2020/IEC 60255-26

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10	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Electrical Fast Transient (EFT)/ Burst Immunity test	IEC 61000-4-4:2012/IEC 60601-1-2:2014+A1:2020/ IEC 62040-2:2016/IEC 61000-6-2:2016/IEC 60255-26:2013/ "Withdrawn Standard" IEC 62052-11:2016/ IEC 62052-11:2020/IEC 61326-1:2020/IEC 255-22-4:2008/ IEC 61000-6-5:2015/IEC 61800-3:2017/IEC 61851-21-2:2018/CISPR14-2:2020/CISPR 35:2016/ "Withdrawn Standard" CISPR 24:2015/IEEE C 62.45:2016/IEEE C 37.90.1:2012/ECER10.05:2014/ EN ETSI 300 386
11	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Electrical Fast Transient (EFT)/ Burst Immunity test	BS EN 60601-1-2:2015+A1:2021/BS EN 55014-2:2021/BS EN 61000-4-4:2012/"Withdrawn Standard" BS EN 55024:2015/BS EN 61000-6-1:2019/BS EN 61000-6-2:2019/BS EN 62040-2:2018/"Withdrawn Standard" BS EN 61000-6-1:2016/BS EN 62052-11:2021/BS EN 55035:2017+A11:2020/BS EN 50121-3-2:2016 A1:2019/ "Withdrawn Standard" BSEN 50091-2:1996/BS EN 50121-4:2016+A1

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12	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Electrostatic Discharge immunity test	BS EN 55014-2:2021/"Withdrawn Standard BS EN 55024:2015/BS EN 61000-4-2:2009/BS EN 61000-6-1:2019/BS EN 61000-6-2:2019/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/BS EN 62052-11:2021/BS EN 50121-3-2:2016+A1:2019/"Withdrawn Standard" BS EN 50091-2:1996/BS EN 55035:2017+A11:2020/BS EN 50121-4:2016+A1:2019/CISPR 14-2:2020/CISPR 35:2016/"Withdrawn Standard" CISPR 24
13	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Electrostatic Discharge immunity test	IEC61000-4-2:2008/IEC 61000-6-1:2016/IEC 61000-6-2:2016/IEC 60601-1-2:2014+A1:2020/IEC 62040-2:2016/IEC 60255-26:2013/"Withdrawn Standard" IEC 62052-11:2016/IEC 62052-11:2020/IEC 61326-1:2020/ IEC 61800-3:2017/IEC 61851-21-2:2018/ISO 10605:2008+A1:2014/SAEJ1113-13:2015/FORD-ES XW7T-1A278-AC/FORD FMC 1278/FORD FMC 1280/ETSI 300 386
14	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Electrostatic Discharge test (MIL-STD)	CS118-MIL-STD 461 G

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15	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Harmonic Current Emission test	IEC 61000-3-2:2018+A1:2020/IEC 60601-1-2:2014 +A1:2020/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/BS EN 61000-3-2:2019+A1:2021/BS EN 61000-6-3:2021/IEC 62040-2:2016/ECE R10.05:2014/IEC 61000-6-3,2020/IEC 61851-21-2
16	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Harmonics & Interharmonics immunity test	IEC 61000-4-13:2002+A1:2009+A2 :2015/BS EN 61000-4-13:2002+A2:2016
17	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	High Energy/ Telecom Surge Immunity test	EN 55014-2:2021/EN 61000-4-5:2014+A1:2017/"Withdrawn Standard" EN 55024:2015/EN 61000-6-1:2019/EN 61000-6-2:2019/ EN 60601-1-2:2015+A1:2021/ EN 62040-2:2018/EN 62052-11:2021/EN 55035:2017+A11:2020/"Withdrawn Standard" EN 50091-2:1996/EN 50121-4:2016+A1:2019/ "Withdrawn Standard" CISPR 24:2015/CISPR 14-2:2020/CISPR 35:2016/IEEEC 62.45:2016/ECER10.05:2014/EN 50121-3-2 2016+A1 2019/ETSI 300386

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18	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	High Energy/ Telecom Surge Immunity test	IEC 61000-4-5:2014+A1:2017/,"Withdrawn Standard" IEC 61000-4-5:2005/IEC 60601-1-2:2014+A1:2020/ IEC 61851-21-2:2018/IEC 61000-6-1:2016/IEC 61000-6-2:2016/IEC 62040-2:2016/IEC 60255-26:2013/"Withdrawn Standard" IEC 62052-11:2016/ IEC 62052-11:2020/IEC 61326-1:2020/IEC 61000-6-5:2015/IEC 61800-3
19	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Power Frequency Magnetic Field Immunity test	IEC 61000-4-8:2009/BS EN 55014-2:2021/“Withdrawn Standard” BS EN 55024:2015/BS EN 61000-4-8:2010/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/BS EN 55035:2017+A11:2020/“Withdrawn Standard” CISPR 24:2010+A1:2015/CISPR35:2016/IEC 60601-1-2:2014+A1:2020/IEC 60255-26:2013/IEC 61000-6-1:2016/IEC 61000-6-2:2016/IEC 61326-1:2020/IEC 62040-2:2016/IEC 61000-6-5:2015/EN 50121-4:2016+A1:2019/,“Withdrawn Standard”EN50091-2:1996/IEC 61851-21-2
20	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Pulse Magnetic field immunity test	IEC 61000-4-9:2016/BS EN 62052-11:2021/BS EN 61000-4-9:2016/IEC 62052-11:2020/"Withdrawn Standard" IEC 62052-11

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21	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Radiated Emission test	CISPR 11:2015+A2:2019/CISPR 25:2021/"Withdrawn Standard" CISPR 22:2008/CISPR 32:2015+A1:2019/CISPR 14-1:2020/FCC 15B/FCC 18/"Withdrawn Standard" BS EN 55022:2010/BS EN 55025:2017/BS EN 55011:2016+A1:2017+A2:2021/BS EN 61000-6-3:2021/BS EN 61000-6-4:2019/BS EN 55014-1:2021/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/BS EN 62052-11:2020/BS EN 50121-4:2016+A1:2019/BS EN 55032:2015+A1:2020/"Withdrawn Standard" BS EN 50091-2:1996/BS EN 50121-3-2:2016+A1
22	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Radiated Emission test	IEC 61000-6-3:2020/IEC 61000-6-4:2018/IEC 60601-1-2:2014+A1:2020/IEC 62040-2:2016/IEC 62052-11:2020/IEC 60255-26:2013/IEC 61800-3:2017/IEC 61326-1:2020/IEC 61851-21-2:2018/ETSI 300386:2020/ 95/54/EC/ 97/24/EC / SAEJ1113-41:2006/GR1089:2017/AIS004:2015/ECER10.05
23	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Radiated Emission test (MIL-STD)	RE101-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G:2015/RE102-MIL-STD 461E:1999/MIL-STD 461F:2007/MIL-STD 461G
24	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Radiated Susceptibility test(MIL-STD)	RS101-MIL-STD 461E:1999/MIL-STD 461F:2007/ MIL-STD 461G:2015/RS103-MIL-STD 461E:1999/MIL-STD 461F:2007/MIL-STD 461G

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25	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	RF Radiated Susceptibility test	"Withdrawn Standard"BS EN 55024:2015/BS EN 55014-2:2021/BS EN 61000-4-3:2020/BS EN 60601-1-2:2015+A1:2021/ BS EN 61000-6-1:2019/BS EN 61000-6-2:2019/BS EN 62040-2:2018/BS EN 62052-11:2021/BS EN 50121-3-2:2016/ "Withdrawn Standard" BS EN 50091-2:1996/BS EN 50121-4:2016+A1:2019/IEEE C37.90.2:2004/ 95/54/EC/97/24/EC/ 2004/104/EC/AIS004:2015/ISO11452-2:2019/EN ETSI 300386:2016/ECER10.05
26	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	RF Radiated Susceptibility test	IEC61000-4-3:2020/ IEC 60601-1-2:2014+A1:2020/ IEC 61000-6-1:2016/IEC 61000-6-2:2016/IEC 62040-2:2016/ IEC 60255-26:2013/ IEC 61326-1:2020/IEC 62052-11:2020/IEC 61000-6-5:2015/IEC 61800-3:2017/ IEC 61851-21-2:2018/CISPR24:2015/CISPR 14-2:2020/CISPR 35
27	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Ring Wave Immunity test(100 kHz)/ Damped Oscillatory Wave Immunity test(100 kHz,1MHz)	IEC 61000-4-12:2017/IEC 60255-22-1:2007/ "Withdrawn Standard" IEC62052-11:2016/IEC62052-11:2020/IEC 61000-6-5:2015/BS EN 62052-11:2021/ BS EN 61000-4-12:2017/BS EN 61000-4-18:2019/IEC 60255-26:2013/"Withdrawn Standard" IEC 255-4:1976/IEC 255-22-1:2007/IEEE C.37.90.1:2012/ IEEE C 62.45:2016/IEC 61000-4-18

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28	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Voltage dips, Short Interruption & Voltage Variations Immunity test	"Withdrawn Standard" IEC61000-4-11:2004/IEC61000-4-11:2020/BS EN 55014-2:2021/ "Withdrawn Standard" BS EN 55024:2015/BS EN 61000-4-11:2020/BS EN 61000-6-1:2019/BS EN 61000-6-2:2019/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/"Withdrawn Standard" CISPR 24:2015/CISPR 14-2:2020/CISPR 35:2016/IEC 61000-6-1:2016/IEC 61000-6-2:2016/IEC 60255-26:2013/"Withdrawn Standard"EN50091-2:1996/ IEC 60601-1-2:2014+A1:2020/IEC62040-2:2016/ IEC 61326-1:2020/IEC 61000-6-5:2015/EN ETSI 300386:2020/IEC 61851-21-
29	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Product	Voltage Fluctuation & Flicker test	IEC 61000-3-3:2013+A1:2017+A2:2021/BS EN 61000-3-3:2013+A2:2021/BS EN 60601-1-2:2015+A1:2021/BS EN 62040-2:2018/BS EN 61000-6-3:2021/IEC 60601-1-2:2014+A1:2020/IEC62040-2:2016/ECE R10.05:2014/IEC 61000-6-3:2020/IEC 61851-21-2

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30	ELECTRONICS- EMC TEST FACILITY	Electrical/Electronics Products	Conducted RF Susceptibility /Bulk Current Injection test	"Withdrawn Standard" BS EN 55024:2015/BS EN 62040-2:2018/BS EN 61000-4-6:2014/BS EN 62052-11:2021/BS EN 61000-6-1:2019/BS EN 61000-6-2:2019/ BS EN 60601-1-2:2015+A1:2021/BS EN 55014-2:2021/BS EN 55035:2017+A11:2020/BS EN 50121-3-2:2016+A1:2019/"Withdrawn Standard" BS EN 50091-2:1996/BS EN 50121-4:2016 A1:2019/ISO 11452-4:2020/SAEJ1113-4:2020/IEC 61326-1