BUREAU OF INDIAN STANDARDS

Program of Work

LITD 9: Electromagnetic Compatibility

Scope:

To prepare Indian Standards relating to: a) Electromagnetic compatibility of electrical and/or electronic equipment, between themselves and with electrical power networks including electromagnetic interference. b) Measurement and calculation methods to assess human exposure to electric, magnetic and electromagnetic fields.

Liaison:

IEC TC-77 (P): Electromagnetic compatibility IEC TC-77 SC-77A (P): EMC - Low frequency phenomena IEC TC-77 SC-77B (P): High frequency phenomena IEC TC-77 (O): High power transient phenomena IEC TC-CISPR (O): International special committee on radio interference IEC TC- (O): Radio-interference measurements and statistical methods IEC TC- (P): Interference relating to industrial, scientific and medical radio-frequency apparatus, to other (heavy) industrial equipment, to overhead power lines, to high voltage equipment and to electric traction IEC TC- (O): Electromagnetic disturbances related to electric/electronic equipment on vehicles and internal combustion engine powered devices IEC

TC- (O): Interference relating to household appliances tools, lighting equipment and similar apparatus IEC TC- (O): Limits for the protection of radio services IEC

TC- (O): Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers **IEC TC-106 (P):** Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure **ISO TC-106 (P):** Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10052 (Part 1/Sec	Radio Disturbance and Immunity	March, 2023	-	Identical under dual
	1):2021	Measuring Apparatus and Methods			numbering
	CISPR 16-1-1: 2019	Specification Part 1 Radio			
	Reviewed In: 2023	Disturbance and Immunity			
	CISPR 16-1-1: 2019	Measuring Apparatus Section 1			
		Measuring apparatus Fourth			
		Revision			
2	IS 10052 (Part 1/Sec	Radio Disturbance and Immunity	July, 2024	-	Identical under dual
	3):2018	Measuring Apparatus and Methods			numbering
	IEC/CISPR 16-1-3:	— Specification Part 1 Radio			
	2016	Disturbance and Immunity			
	Reviewed In: 2024	Measuring Apparatus Section 3			
	IEC/CISPR 16-1-3:	Ancillary equipment —			
	2016	Disturbance power			
3	IS 10052 (Part 1/Sec	Radio Disturbance and Immunity		-	Identical under dual
	4):2024	Measuring Apparatus and Methods			numbering
	CISPR 16-1-4: 2020	â€" Specification Part 1 Radio			
	CISPR 16-1-4:	Disturbance and Immunity			
	2020	Measuring Apparatus Section 4			
		Antennas and Test Sites for			

		Radiated Disturbance			
<u> </u>	VG 40052 (D 449	Measurements	X 1 2024		<u> </u>
4	· ·	Radio Disturbance and Immunity	July, 2024	-	Identical under dual
	5):2018	Measuring Apparatus and Methods			numbering
	CISPR 16-1-5 : 2016	1			
	Reviewed In: 2024	Disturbance and Immunity			
	CISPR 16-1-5 : 2016	C 11			
		Antenna calibration sites and			
		reference test sites for 5 MHz to 18			
<u> </u>		GHz			
5		Specification for radio disturbance		-	Identical under dual
	6):2022	and immunity measuring apparatus			numbering
	CISPR 16-1-6: 2014				
	CISPR 16-1-6: 2014	,			
		measuring apparatus Section 6			
	YG 40072 (D. 1019	EMC antenna calibration	X 1 2024		
6		Specification for radio disturbance	July, 2024	-	Identical under dual
	1):2018	and immunity measuring apparatus			numbering
		and methods: Part 2 methods of			
	Reviewed In: 2024				
	CISPR 16-2-1:2014	,			
		disturbance measurements (Second			
<u> </u>	IG 10050 /P 145	Revision)	T.1. 2027		T1 / 1 1 1 1
7		Radio disturbance and immunity	July, 2024	-	Identical under dual
		measuring apparatus and methods -			numbering
		1			
	2017	statistics and limit modelling: Sec 4			
		statistics of complaints and a model			
		for the calculation of limits for the			
0	2017	protection of radio services Radio interference characteristics	Cantanahan 2024		Identical under dual
8	IS 12233 (Part 1):2018		September, 2024	-	
	CISPR TR 18-1 :	of overhead power lines and high - Voltage equipment: Part 1			numbering
	2017	description of phenomena			
		description of phenomena			
	Davious d In + 2024	1 1			
Ī	Reviewed In : 2024				
	CISPR 18-1: 2017		August 2024		Identical under dual
9	CISPR 18-1 : 2017 IS 12233 (Part	RADIO INTERFERENCE	August, 2024	-	Identical under dual
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021	RADIO INTERFERENCE CHARACTERSTICS OF	August, 2024	-	Identical under dual numbering
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES	August, 2024	-	
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2:	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE	August, 2024	-	
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2	August, 2024	-	
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT	August, 2024	-	
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR	August, 2024	-	
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First	August, 2024	-	
9	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR	-	- -	
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics	August, 2024 July, 2024	-	numbering Identical under dual
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High-	-	-	numbering
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics	-	-	numbering Identical under dual
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 :	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the	-	-	numbering Identical under dual
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (-	-	numbering Identical under dual
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the	-	-	numbering Identical under dual
	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3:	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (-	-	numbering Identical under dual
10	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3: 2017	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (Second Revision) Consideration of reference	July, 2024	-	Identical under dual numbering
10	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3: 2017 IS 13397:2018	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (Second Revision)	July, 2024	-	Identical under dual numbering Identical under dual
10	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3: 2017 IS 13397:2018 IEC/TR 60725 :	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (Second Revision) Consideration of reference impedances and public supply	July, 2024	-	Identical under dual numbering Identical under dual
10	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3: 2017 IS 13397:2018 IEC/TR 60725 : 2012	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (Second Revision) Consideration of reference impedances and public supply network impedances for use in	July, 2024	-	Identical under dual numbering Identical under dual
10	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3: 2017 IS 13397:2018 IEC/TR 60725 : 2012 Reviewed In : 2024	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (Second Revision) Consideration of reference impedances and public supply network impedances for use in determining the disturbance	July, 2024	-	Identical under dual numbering Identical under dual
10	CISPR 18-1 : 2017 IS 12233 (Part 2):2021 Reviewed In : 2024 CISPR/TR 18-2: 2017 IS 12233 (Part 3):2019 CISPR TR 18-3 : 2017 Reviewed In : 2024 CISPR/TR 18-3: 2017 IS 13397:2018 IEC/TR 60725 : 2012 Reviewed In : 2024 IEC/TR 60725 :	RADIO INTERFERENCE CHARACTERSTICS OF OVERHEAD POWER LINES AND HIGH VOLTAGE EQUIPMENT PART 2 METHODS OF MEASUREMENT AND PROCEDURE FOR DETERMINING LIMITS (First Revision) Radio Interference Characteristics of Overhead Power Lines and High- Voltage Equipment Part 3 Code of Practice for Minimizing the Generation of Radio Noise (Second Revision) Consideration of reference impedances and public supply network impedances for use in determining the disturbance characteristics of electrical	July, 2024	-	Identical under dual numbering Identical under dual

1		Revision)			1
12	IS 14700 (Part 1/Sec	,	January, 2022	-	Identical under dual
	1):2000	(EMC): Part 1 general: Sec 1	·		numbering
	IEC 61000-1-1	application and interpretation of			
	Reviewed In: 2022	fundamental definitions and terms			
	IEC 61000-1-1				
13	IS 14700 (Part 3/Sec	e i	September, 2023	-	Identical under dual
	2):2020	(EMC) Part 3 Limits Section 2			numbering
	IEC 61000-3-2:	Limits for harmonic current			
	2018	emissions (equipment input			
	Reviewed In: 2023 IEC 61000-3-2:	current ? 16 A per phase) (Third			
	2018	Revision)			
14	IS 14700 (Part 3/Sec	Electromagnetic compatibility	May, 2024	_	Identical under dual
1.	3):2018	(EMC): Part 3 limits section 3	111aj, 202 i		numbering
	IEC 61000-3-3:	limitation of voltage changes,			numo vimg
	2013	voltage fluctuations and flicker in			
	Reviewed In: 2024	public low-voltage supply system,			
	IEC 61000-3-3	for equipment with rated current?			
		16 a per phase and not subjected to			
		conditional connection (Second			
		Revision)			
15	IS 14700 (Part 4/Sec		May, 2022	-	Identical under dual
	1):2019	(EMC): Part 4 testing and			numbering
	IEC 61000-4-1:	measurement techniques: Sec 1			
	2016	overview of the IEC 61000 - 4			
	Reviewed In: 2022 IEC 61000-4-1:	series (Second Revision)			
	2016				
16	IS 14700 (Part 4/Sec	Electromagnetic compatibility	March, 2024	-	Identical under dual
	2):2018	(EMC): Part 4 testing and			numbering
	61000-4-2 : 2008	measurement techniques: Sec 2			
	Reviewed In: 2024	electrostatic discharge immunity			
	IEC 61000-4-2:	test (Second Revision)			
	2008				
17	IS 14700 (Part 4/Sec			-	Identical under dual
	3):2023	EMC Part 4 Testing and			numbering
		Measurement Techniques Section 3			
	2020 IEC 61000-4-3:	Radiated radio-frequency electromagnetic field immunity test			
	2020	Second Revision			
18	IS 14700 (Part 4/Sec		March, 2021	_	Identical under dual
	3):2018	(EMC) Part 4 Testing and	1.141011, 2021		numbering
	IEC 61000-4-24 :	Measurement Techniques Section			
	2015	24 Test methods for protective			
	Reviewed In: 2021	devices for HEMP conducted			
	IEC 61000-4-3:	disturbance (First Revision)			
	2020				
19	IS 14700 (Part 4/Sec		March, 2024	-	Identical under dual
	4):2018	(EMC): Part 4 testing and			numbering
	IEC 61000-4-4:	measurement techniques: Sec 4			
	2012	electrical fast transient / burst			
	Reviewed In: 2024 IEC 61000-4-4:2012	immunity test (Second Revision)			
20	IS 14700 (Part 4/Sec	Electromagnetic compatibility	May, 2022	_	Identical under dual
20	5):2019	(EMC): Part 4 testing and	iviay, 2022		numbering
	IEC 61000-4-5 :	measurement techniques: Sec 5			numbering
	2017	surge immunity test (First			
	Reviewed In: 2022	Revision)			
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	IEC 61000-4-5:				[
	2017	771			*1 . 1 . 1 . 1
21	IS 14700 (Part 4/Sec	Electromagnetic compatibility	April, 2022	-	Identical under dual
	6):2016	(EMC): Part 4 testing and			numbering
	IEC 61000-4-6:	measurement techniques: Sec 6			
	2013	immunity to conducted			
	Reviewed In: 2022	disturbances, induced by radio -			
22	IEC 61000-4-6:2013 IS 14700 (Part 4/Sec	Frequency fields Electromagnetic compatibility	November, 2023		Identical under dual
22	7):2017	(EMC): Part 4 testing and	November, 2025	-	
	IEC 61000-4-7 :	measurement techniques: Sec 7			numbering
	2009	general guide on harmonic and			
	Reviewed In: 2023	interharmonics measurements and			
		instrumentation, for power supply			
		systems and equipment connected			
		thereto (First Revision)			
23	IS 14700 (Part 4/Sec	Electromagnetic compatibility	March, 2024	-	Identical under dual
	8):2018	(EMC): Part 4 testing and			numbering
	IEC 61000-4-8:	measurement techniques: Sec 8			
	2009	power frequency magnetic field			
	Reviewed In: 2024	immunity test (Second Revision)			
	IEC 61000-4-8:2009				
24	IS 14700 (Part 4/Sec	Electromagnetic compatibility	May, 2022	-	Identical under dual
	9):2019	(EMC): Part 4 testing and			numbering
	IEC 61000-4-9:	measurement techniques: Sec 9			
	2016	impulse magnetic field immunity			
	Reviewed In: 2022	test (Second Revision)			
	IEC 61000-4-9:				
25	2016 IS 14700 (Part 4/Sec	Electromagnetic compatibility	August, 2024		Identical under dual
23	11):2021	EMC: Part 4 testing and	August, 2024	_	numbering
	IEC 61000-4-11:	measurement techniques: Sec 11			numbering
	2020	voltage dips short interruptions and			
	Reviewed In: 2024	voltage variations immunity tests			
	IEC 61000-4-11:	for equipment with input current			
	2020	up to 16 A per phase			
26	IS 14700 (Part 4/Sec	Electromagnetic compatibility	May, 2022	-	Identical under dual
	12):2019	(EMC): Part 4 testing and			numbering
	IEC 61000-4-12:	measurement techniques: Sec 12			
	2017	ring wave immunity test (Second			
	Reviewed In: 2022	Revision)			
	IEC 61000-4-12:				
27	2017	Electrome continues and the U.S.	A:1 2022		Identical de d1
27	IS 14700 (Part 4/Sec 13):2016	Electromagnetic compatibility (EMC): Part 4 testing and	April, 2022	-	Identical under dual
	IEC 61000-4-13 :	(EMC): Part 4 testing and measurement techniques: Sec 13			numbering
	2009	harmonics and interharmonics			
	Reviewed In: 2022	including mains signaling at a.c.			
	IEC	power port, low frequency			
	61000-4-13:2009	immunity test			
28	IS 14700 (Part 4/Sec		May, 2024	-	Identical under dual
	14):2018	(EMC): Part 4 testing and	•		numbering
	IEC 61000-4-14:	measurement techniques: Sec 14			
	2009	voltage fluctuation immunity test			
	Reviewed In: 2024	for equipment with input current			
	IEC 61000-4-14:	not exceeding 16 A per phase			
100	2009	77	14 2024		71 . 1 1 1 1
29	IS 14700 (Part 4/Sec		May, 2024	-	Identical under dual
	15):2018	(EMC): Part 4 testing and			numbering

30	IEC 61000-4-15 : 2010 Reviewed In : 2024 IEC 61000-4-15:2010 IS 14700 (Part 4/Sec 16):2019 IEC 61000-4-16 : 2015 Reviewed In : 2022	measurement techniques: Sec 15 flickermeter - Functional and design specifications (Second Revision) Electromagnetic compatibility (EMC): Part 4 testing and measurement techniques: Sec 16 test for immunity to conducted, common mode disturbances in the	May, 2022	-	Identical under dual numbering
31	IEC 61000-4-16: 2015 IS 14700 (Part 4/Sec 17):2018 ISO 61000-4-17:	frequency range 0 hz to 150 kHz (Second Revision) Electromagnetic Compatiblity (EMC) Part 4 Testing & Measurement Techniques Section	May, 2024	-	Identical under dual numbering
32	2009 Reviewed In : 2024 ISO 61000-4-17 : 2009 IS 14700 (Part 4/Sec	17 Ripple on d.c input Power Port Immunity Test	July, 2024		Identical under dual
	24):2018 IEC 61000-4-24 Reviewed In : 2024 IEC 61000-4-24:2015	(EMC): Part 4 testing and measurement techniques: Sec 24 test methods for protective devices for HEMP conducted disturbance (First Revision)	·	-	numbering
33	IS 14700 (Part 4/Sec 25):2018 IEC 61000-4-25: 2012 Reviewed In: 2024 IEC 61000-4-25:2012	Electromagnetic compatibility (EMC): Part 4 testing and measurement techniques: Sec 25 HEMP immunity test methods for equipment and systems	May, 2024	-	Identical under dual numbering
34	IS 14700 (Part 4/Sec 32):2018 IEC 61000-4-32: 2002 Reviewed In : 2024 IEC 61000-4-32: 2002	Electromagnetic compatibility (EMC): Part 4 testing and measurement techniques: Sec 32 high - Altitude electromagnetic pulse (HEMP) simulator compendium	May, 2024	-	Identical under dual numbering
35	IS 14700 (Part 4/Sec 33):2018 IEC 61000-4-33: 2005 Reviewed In: 2024 IEC 61000-4-33: 2005	Electromagnetic compatibility (EMC): Part 4 testing and measurement techniques: Sec 33 measurement methods for high - Power transient parameters	June, 2024	-	Identical under dual numbering
36	IS 14700 (Part 4/Sec 34):2017 IEC 61000-4-34: 2009 Reviewed In: 2023 IEC 61000-4-34:2009	Electromagnetic compatibility (EMC): Part 4 testing and measurement techniques: Sec 34 voltage dips, short interruptions and voltage variations immunity tests for current more than 16 A per phase	November, 2023	-	Identical under dual numbering
37	IS 14700 (Part 4/Sec 35):2018 IEC 61000-4-35 : 2009 Reviewed In : 2024 IEC 61000-4-35 :		May, 2024	-	Identical under dual numbering

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38	IS 14700 (Part 6/Sec	Electromagnetic Compatibility (July, 2025	_	Identical under dual
	1):2019	EMC) Part 6 Generic Standards	•		numbering
	IEC 61000-6-1:	Section 1 Immunity standard for			
	2016	residential, commercial and light-			
	Reviewed In: 2025	industrial environments (First			
	IEC 61000-6-1:	Revision)			
	2016	ŕ			
39	IS 14700 (Part 6/Sec	Electromagnetic Compatibility (July, 2025	-	Identical under dual
	2):2019	EMC) Part 6 Generic Standards			numbering
	IEC 61000-6-2:	Section 2 Immunity standard for			
	2016	industrial environments (First			
	Reviewed In: 2025	Revision)			
	IEC 61000-6-2:				
	2016				
40	IS 14700 (Part 6/Sec			-	Identical under dual
	3):2023	EMC Part 6 Generic standards			numbering
	IEC 61000-6-3:	Section 3 Emission standard for			
	2020	equipment in residential			
	IEC 61000-6-3:	environments Second Revision			
	2020		.,		
41	IS 15040:2020	Radio Disturbance Characteristics	November, 2022	-	Identical under dual
		for Protection of Receivers used on			numbering
		Board Vehicles, Boats and Internal			
	CISPR 25: 2016	Combustion Engines — Limits and			
		Methods of Measurement (Second			
40	IC 15074 2000	Revision)	Inner 2027		Idanti - 1 1 1 1
42	IS 15874:2009	Industrial, scientific and medical	January, 2025	-	Identical under dual
	CISPR 28	equipment (ISM) - Guidelines for emission levels within the bands			numbering
	Reviewed In : 2025 CISPR 28:1997				
43	IS 16528:2017	designated by the ITU Determination of RF field strength	November, 2023		Identical under dual
43	IEC 62232 : 2011	and SAR in the vicinity of	11010111001, 2023	_	numbering
		Radiocommunication base stations			numbering
	IEC62232(2011)	for the purpose of evaluating			
	12002232(2011)	human exposure			
44	IS 1885 (Part	Electrotechnical vocabulary: Part	January, 2022	_	Identical under dual
'	85):2003	85 electromagnetic compatibility	· ··· ······ j , = · · · ·		numbering
	IEC 60050(161)				
	Reviewed In: 2022				
	IEC 60050(161)				
45	IS/CISPR TR	Television broadcast receivers and	July, 2025	-	Identical under single
	29:2020	associated equipment Immunity	•		numbering
	CISPR 29: 2020	characteristics Methods of			
	Reviewed In: 2025	objective picture assessment			
	CISPR 29: 2020				
46	IS/CISPR 32:2015	Electromagnetic Compatibility of	November, 2025	-	Identical under single
	CISPR 32: 2015	Multimedia Equipment Emission			numbering
	Reviewed In: 2025	Requirements			
	CISPR 32: 2015				
47	IS/CISPR 35:2016	Electromagnetic Compatibility of	August, 2024	-	Identical under single
	CISPR 35: 2016	Multimedia Equipment Immunity			numbering
	Reviewed In: 2024	Requirements			
<u> </u>	CISPR 35: 2016	= -			
48	IS/IEC	Measurement Procedure for the	December, 2021	-	Identical under single
	62209-1:2016	Assessment of Specific Absorption			numbering
		Rate of Human Exposure to Radio			
	Reviewed In: 2021	Frequency Fields from Hand-held			
1	IEC 62209-1: 2016	and Body-mounted Wireless			
•	-	•		-	•

		Communication Devices Part 1			
		Devices Used Next to the Ear (
		Frequency range of 300 MHz to 6			
		GHz) (First Revision)			
49	IS/IEC	Human exposure to radio		-	Identical under single
	62209-2:2019	frequency fields from hand-held			numbering
	IEC 62209-2: 2019	and body-mounted wireless			
	IEC 62209-2: 2019	communication devices Human			
		models instrumentation and			
		procedures Part 2 Procedure to			
		determine the specific absorption			
		rate SAR for wireless			
		communication devices Used in			
		Close Proximity to The Human			
		Body (Frequency range of 30 MHz			
		to 6 GHz) (First Revision)			
50	IS/IEC	Measurement procedure for the	September, 2024	-	Identical under single
	62209-3:2019	assessment of specific absorption	•		numbering
	IEC 62209-3:2019	rate of human exposure to radio			
	Reviewed In: 2024	frequency fields from hand-held			
	IEC 62209-3:2019	and body-mounted wireless			
		communication devices Part 3:			
		Vector measurement-based systems			
		Frequency range of 600 MHz to 6			
		Ghz)			
51	IS/IEC	Exposure to electric or magnetic	March, 2024	-	Identical under single
	62226-1:2004	fields in the low and intermediate			numbering
	Reviewed In: 2024	frequency range - Methods for			
	IEC 62226-1:2004	calculating the current density and			
		internal electric field induced in			
		the human body Part 1 General			
52	IS/IEC	Exposure to electric or magnetic	March, 2024	-	Identical under single
	62226-2-1:2004	fields in the low and intermediate			numbering
	Reviewed In: 2024	frequency range - Methods for			
	IEC 62226-2-1	calculating the current density and			
		internal electric field induced in			
		the human body: Part 2 exposure to			
		magnetic fields: Sec 1 2D models			
53	IS/IEC	Exposure to Electric or Magnetic	July, 2024	-	Identical under single
	62226-3-1:2016	Fields in the Low and Intermediate			numbering
	IEC 62226-3-1:	Frequency Range Methods for			
	2016	Calculating the Current Density			
		and Internal Electric Field Induced			
	IEC 62226-3-1:	in the Human Body Part 3			
	2016	Exposure to Electric Fields Section			
		1 Analytical and 2D numerical			
		models			
54	IS/IEC 62233:2005	Measurement methods for	March, 2024	-	Identical under single
	Reviewed In: 2024	electromagnetic fields of			numbering
	IEC 62233	household appliances and similar			
		apparatus with regard to human			
		exposure			
55	IS/IEC 62311:2019	Assessment of electronic and	March, 2024	-	Identical under single
	IEC 62311:2019	electrical equipment related to			numbering
	Reviewed In: 2024	human exposure restrictions for			
	IEC 62311:2019	electromagnetic fields 0 Hz - 300			
	10,000	GHz	A 11 2024		T.1
56	IS/IEC	Evaluation of human exposure to	April, 2024	-	Identical under single
	62369-1:2008	electromagnetic fields from short			numbering

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Reviewed In : 2025 Electrical Equipment with the Basic Restrictions Related to Human Exposure to Electromagnetic Fields (10 MHz to 300 GHz)		IEC 62479 : 2010	Low-Power Electronic and	-		_
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Standards under Development

	Projects Approved				
SI. No.	SI. No. Doc No. Title				
	No Records Found				

Preliminary Draft Standards				
SI. No.	SI. No. Doc No. Title			
No Records Found				

	Drafts Standards in WC Stage				
SI. No.	Doc No.	Title			
1	LITD 9 (24959)	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-worn wireless communication devices - Human models instrumentation and procedures Frequency range of 4 MHz to 10 GHz			

	Draft Standards Completed WC Stage				
SI. No.	Doc No.	Title			
1	LITD 9 (28502)	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 Radio disturbance and immunity measuring apparatus Section 6 EMC antenna calibration			
2	LITD 9 (28503)	Electromagnetic compatibility EMC Part 4 testing and measurement techniques Sec 24 test methods for protective devices for HEMP conducted disturbance			
3	LITD 9 (28504)	Electromagnetic Compatibility of Multimedia Equipment Emission Requirements			
4	LITD 9 (28521)	Electrotechnical vocabulary Part 85 electromagnetic compatibility			

Finalized Draft Indian Standard		
SI. No.	Doc No.	Title
1	LITD 9 (24955) Revision	Electromagnetic Compatibility EMC Part 4 Testing and Measurement Techniques Section 6
	of: IS 14700:2016	Immunity to Conducted Disturbances Induced by Radio-Frequency Fields First Revision
2	LITD 9 (24957)	Electromagnetic Compatibility EMC Part 5 Installation and Mitigation Guidelines Section 2
		Earthing and Cabling
3	LITD 9 (25161)	Vehicles Boats and Internal Combustion Engines - Radio Disturbance Characteristics Limits and
		Methods of Measurement for the Protection of On-Board Receivers
4	LITD 9 (25162)	Determination of RF field strength power density and SAR in the vicinity of base stations for the
		purpose of evaluating human exposure
5	LITD 9 (25163)	Assessment of Power Density of Human Exposure to Radio Frequency Fields from Wireless
		Devices in Close Proximity to the Head and Body Frequency Range of 6 Ghz to 300 Ghz Part 1
		Measurement Procedure
6	LITD 9 (25164)	Assessment of Power Density of Human Exposure to Radio Frequency Fields from Wireless
		Devices in Close Proximity to the Head and Body Frequency Range of 6 Ghz to 300 Ghz Part 2
		Computational Procedure

Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title
1	LITD 9 (24954) Revision	Electromagnetic Compatibility EMC Part 1 General Section 1 Application and Interpretation of
	of: IS 14700:2000	Fundamental Definitions and Terms First Revision
2	LITD 9 (24956)	Electromagnetic Compatibility EMC Part 5 Installation and Mitigation Guidelines Section 1

Total Published Standards:65 Total Standards Under development:13

Aspect Wise Report

Product: 12
Code of Practices: 6
Methods of Test: 36
Terminology: 1
Dimensions: 2
System Standard: 1
Safety Standard: 3
Others: 4

 $\begin{array}{c} Service \ Specification: 0 \\ Process \ Specification: 0 \\ Unclassified: 0 \end{array}$

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10052 (Part 1):1999	Withdrawal
	CISPR 16-1	
	Reviewed In: 2016 CISPR	
	16-1	
2	IS 10052 (Part 2):1999	SpecificatlOn for radio disturbance and immunity measuring apparatus and methods Part 2
	CISPR 16-2	methods of measurement of disturbances and immunity First Revision
	Reviewed In: 2019 CISPR	
	16-2	
3	IS 10422:1982	Requirement And Test Methods For Safety Of Data Processing Equipment
	Reviewed In: 2010	
4	IS 10564:1983	Recommended practice for minimization of electromagnetic interference from radio frequency
	Reviewed In: 2019 IEEE	heating equipment
	140	
5	IS 11412:1986	Key-board for information processing using 7-bit coded character set
	Reviewed In: 1997	
6	IS 12233 (Part 1/Sec	Electromagnetic Interference Characteristics of Overhead Powerlines and High Voltage
	1):1987	Equipment Part 1 Description of Phenomena Sec 1 Radio Noise from Power Lines
	Reviewed In: 2016	
7	IS 12233 (Part 1/Sec	Electromagnetic Interference Characteristics of Overhead Power Lines and High-voltage
	2):1987	Equipment Part 1 Description Of Phenomena Sec 2 Effects of Corona from Conductors
	Reviewed In: 2016	
8	IS 12233 (Part 1/Sec	Electromagnetic Interference Characteristics of Overhead Power Lines and High-voltage
	3):1987	Equipment Part 1 Description of Phenomena Sec 3 Radio Noise Levels Due to Insulators Fittings
	Reviewed In: 2016	and Sub-station
9	IS 12233 (Part 1/Sec	Electromagnetic Interference Characteristics of Overhead Power Lines and High-voltage
	4):1987	Equipment part 1 Description of Phenomena Sec 4 Sparking Due to Bad Contacts
	Reviewed In: 2016	
10	IS 12233 (Part 1/Sec	Electromagnetic Interference Characteristics of Overhead Power Lines and High-voltage
	5):1987	Equipment Part 1 Description of Phenomena sec 5 Special Dc Effects
	Reviewed In: 2016	
11	IS 12552:2020	Sound and Television Broadcast Receivers and Associated Equipment Immunity Characteristics
	CISPR 20: 2013	Limits and Methods of Measurement Second Revision
	CISPR 20: 2013	
12	IS 12743:1989	Guide on methods of measurement of short duration transients on low voltage power and signal
	IEC 60816	lines
	Reviewed In: 2022 IEC	
	60816	
13	IS 13671:1993	Guidance on the use of the substitution method for measurements of Radiation from microwave

	CISPR Pub 19 Reviewed In: 2013	ovens for frequencies above 1 GHz
14	IS 14147 (Part 3):1994	Identification cards - Recording technique Part 3 Location of embossed characters on ID-1 cards
15	IS 14147 (Part 4):1994 Reviewed In : 2003	Identification cards - Recording technique Part 4 Location of read-only Magnetic track - Track 1 2
16	IS 15039:2018 CISPR 24 : 2010 CISPR 24 : 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement First Revision
17	IS 15598:2005 CISPR 21 Reviewed In : 2013	Interference to mobile Radiocommunications in the Presence of Impulsive Noise - Methods of Judging Degradation and Measures to Improve Performance
18	IS 1885 (Part 36):1972 Reviewed In : 2013	Electrotechnical vocabulary Part 36 Interference
19	IS 1885 (Part 52/Sec 8):1980	Electrotechnical vocabulary Part 52 Data processing Sec 8 Control input-output and arithmatic equipment
20	IS 1885 (Part 52/Sec 9):1980	Electrotechnical vocabulary Part 52 Data processing Sec 9 Data media storage and related equipment
21	IS 2684 (Part 1):1972 IEC 67 Reviewed In: 1990	Dimensions of electron tubes Part 1 Miniature 9-pin noval type
22	IS 2684 (Part 2):1972 Reviewed In: 1990	Dimensions of electron tubes Part 2 Miniature 7-pin type
23	IS 2684 (Part 3):1971 IEC 67 Reviewed In: 1990	Dimensions of electron tubes Part 3 Octal base type
24	IS 2684 (Part 4):1971 IEC 67 Reviewed In: 1990	Dimensions of electron tubes Part 4 Magnoval base type
25	IS 2684 (Part 5):1972 IEC 67 Reviewed In: 1990	Dimensions of electron tubes Part 5 Local base type
26	IS 3154:1965	X-ray tubes diagnostic type
27	IS 4096:1973 Reviewed In: 1995	Methods of measurement of optical focal spot size of X-ray tubes
28	IS 6134 (Part 1/Sec 1):1973 Reviewed In : 2003	Methods of measurement of electrical characteristics of microwave tubes Part 1 General measurement Sec 1 General condition and precautions for measurements incorporated in IS 6134 Part 1
29	IS 6134 (Part 1/Sec 2):1973 Reviewed In : 2000	Methods of measurement of electrical characteristics of microwave tubes Part 1 General measurement Sec 2 Common to all devices incorporated in IS 6134 Part 1
30	IS 6568:1972	Implosion protection for TV picture tubes
31	IS 6576:1972	Methods of measurements on gas filled cold cathode indicator tubes
32	IS 6577:1972	Methods of measurements on gas filled cold cathode voltage stabilizing and voltage reference tubes
33	IS 6873 (Part 2):1999 CISPR 14-1 Reviewed In : 2015 CISPR 14-1	CISPR 14 1993 Limits and Methods of Measurement of Radio Disturbance Characteristics - Part 2 Electrical Motor-operated and Thermal Appliances for Household and Similar Purposes Electric Tools and Electric Apparatus
34	IS 6873 (Part 3):2015 CISPR 13 : 2009 Reviewed In : 2018 CISPR 13: 2009	Limits and methods of measurement of radio disturbance characteristics Part 3 sound and television broadcast receivers and associated equipment Third Revision
35	IS 6873 (Part 7):2012 CISPR 22(2008)	Limits and methods of measurement of radio disturbance characteristics Part 7 information technology equipment Second Revision

	Reviewed In : 2018 CISPR 22(2008)	
36	IS 8319 (Part 1):1977	Dimensions of indicator tubes Part 1 Tube type 1
37	IS 8319 (Part 2):1977	Dimensions of indicator tubes Part 2 Tube type 2
38	IS 8319 (Part 3):1977	Dimensions of indicator tubes Part 3 Tube type 3
39	IS 8319 (Part 4):1979	Dimensions of indicator tubes Part 4 Tube type 4
40	IS 8817:1978	Keytop printed or displayed symbols for electronic calculators
41	IS 8880:1978	Filter Units for Electromagnetic Interference Suppression
	Reviewed In: 2015 BS 613	· · ·
42	IS 8912:1978	Methods of measurement of the suppression characteristics of electromagnetic interference filters
	Reviewed In:	
	2015 CISPR/A(Sectt) 13	
43	IS 9306:1979	Layouts Of Numeric Keyboard For Electronic Calculators
44	IS 9383 (Part 1):1979	Dimensions Of Sign Indicator Tubes Part 1 Tube Type 1
45	IS 9383 (Part 2):1979	Dimensions Of Sign Indicator Tubes Part 2 Tubes Type 2
46	IS 9538:1980	Electronic calculators non-programmable type

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10052 (Part 1/Sec	Radio Disturbance and Immunity Measuring Apparatus and Methods Specification Part 1 Radio
	4):2024	Disturbance and Immunity Measuring Apparatus Section 4 Antennas and Test Sites for Radiated
	CISPR 16-1-4: 2020	Disturbance Measurements
2	IS 10052 (Part 2/Sec	Specification for radio disturbance and immunity measuring apparatus and methods Part 2
	1):2018	methods of measurement of disturbances and immunity Sec 1 conducted disturbance measurements
	CISPR 16-2-1 : 2014	Second Revision
	Reviewed In: 2024 CISPR	
	16-2-1:2014	
3	IS 14700 (Part 6/Sec	Electromagnetic compatibility EMC Part 6 Generic standards Section 3 Emission standard for
	3):2023	equipment in residential environments Second Revision
	IEC 61000-6-3: 2020	
4	IS 15040:2020	Radio Disturbance Characteristics for Protection of Receivers used on Board Vehicles Boats and
	CISPR 25 : 2016	Internal Combustion Engines Limits and Methods of Measurement Second Revision
	Reviewed In: 2022 CISPR	
	25: 2016	
5	IS/CISPR TR 29:2020	Television broadcast receivers and associated equipment Immunity characteristics Methods of
	CISPR 29 : 2020	objective picture assessment
	Reviewed In: 2025	
6	IS/CISPR 35:2016	Electromagnetic Compatibility of Multimedia Equipment Immunity Requirements
	CISPR 35: 2016	
	Reviewed In:	
	2024 ISO/IEC TR 23613 :	
	2020	
7	IS/IEC 62209-1:2016	Measurement Procedure for the Assessment of Specific Absorption Rate of Human Exposure to
	IEC 62209-1 : 2016	Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices Part
	Reviewed In : 2021 IEC	1 Devices Used Next to the Ear Frequency range of 300 MHz to 6 GHz First Revision
0	62209-1: 2016	
8	IS/IEC 62311:2019	Assessment of electronic and electrical equipment related to human exposure restrictions for

	IEC 62311:2019	electromagnetic fields 0 Hz - 300 GHz
	Reviewed In: 2024 ISO	
	21924-2: 2017	
9	IS 6873 (Part 2/Sec 1):2024	Limits and Methods of Measurement of Radio Disturbance Characteristics PART 2
	CISPR 14-1: 2020	Electromagnetic Compatibility EMC Requirements for Household Appliances Electric Tools and
		Similar Apparatus Section 1 Emission Fourth Revision
10	IS 6873 (Part 2/Sec 2):2024	Limits and Methods of Measurement of Radio Disturbance Characteristics Part 2 Electromagnetic
	CISPR 14-2: 20	Compatibility EMC Requirements for Household Appliances Electric Tools and Similar Apparatus
		Section 2 Immunity Product Family Standard Fifth Revision
11	IS 6873 (Part 4):2019	Limits and Methods of Measurement of Radio Disturbance Characteristics Part 4 Industrial
	CISPR 11: 2016	Scientific and Medical Radio-Frequency Equipment Second Revision
	Reviewed In: 2025 ISO	
	17175:2017	
12	IS 6873 (Part 5):2019	Limits and Methods of Measurement of Radio Disturbance Characteristics Part 5 Electrical
	CISPR 15 : 2018	Lighting and Similar Equipment Third Revision
	Reviewed In: 2025 CISPR	
	15: 2018	