BUREAU OF INDIAN STANDARDS

AGENDA				
ELEVENTH MEETING OF ELECTROMAGNETIC COMPATIBILITY SECTIONAL COMMITTEE, LITD 09				
दिनांक- दिन- समय/ DATE & TIME स्थान VENUE				
दिनांक DATE : 28 th मार्च /March 2022 दिन DAY : सोमवार / Monday	Meeting Link (WEBEX): https://bisindia.webex.com/bisindia/j.php?MTID=m52 47ea5907c7295b5fa488e51c128ab5			
समय TIME : 1100 h (11:00 AM)	Meeting number: 2511 836 9106Password: Ltd9			
Chairman: Dr Subbarao Bandaru	Member Secretary: Shri Bipin Jambholkar			

ITEM 0 WELCOME

- 0.1 Welcome
- **0.2** Opening Remarks by the Chairman

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

1.1 The minutes of the last meeting of LITD 09 were circulated vide BISDG letter No. LITD 09/A-2.10 dated 16th Nov 2021. No Comments were received on MOM.

The Committee may formally confirm these minutes.

ITEM 2 REVIEW OF COMPOSITION OF SECTIONAL COMMITTEE LITD 09

2.1 The composition of Electromagnetic Compatibility Sectional Committee, LITD 09 is given in ANNEX A (Pg 11-12).

2.2 BIS has received request for co-option from following organization.

- (a) Nidec Control Techniques
- b) Dell technologies ltd.

The Committee may note and review its composition.

ITEM 3 DRAFT INDIAN STANDARDS FOR FINALIZATION

3.1 The following Draft Standards were sent for comments under wide Circulation for Comments.

No.		Ref. No and	Title & ICS No.	Remarks
	IS Number	date		
	Equivalent Standard			
1	LITD 09 (18772)	LITD 09/ T	Limits and Methods of Measurement of	Comments
	IS 6873 (Part 2/Sec 1)	Dt 25 th Jan- 22	Radio Disturbance Characteristics	received from
	CISPR 14-1: 2020		Part 2 Electromagnetic Compatibility (EMC)	Schneider
	CISPK 14-1. 2020		-Requirements for Household Appliances,	Electric
			Electric Tools and Similar Apparatus Section	Annex B
			1 Emission [Forth Revision of IS 6873 (Part	(Page 12-16)
		LITD 09/ T	2/Sec 1)] ICS : 33.100.10	Comments
2	LITD 09 (18774)		Limits and Methods of Measurement of	received from
	IS 6873 (Part 2/Sec 2)	Dt 25 th Jan- 22	Radio Disturbance Characteristics	Schneider
	CISPR 14-2: 2020		Part 2 Electromagnetic Compatibility (EMC) — Requirements for Household Appliances,	Electric
			Electric Tools and Similar Apparatus	Annex B
			Section 2 Emission – Product Family	(Page 12-16)
			Standard [Fourth Revision of IS 6873 (Part	-
			2/Sec 2)] ICS : 33.100.20	
3	LITD 09 (18775)	LITD 09/ T	Radio Disturbance and Immunity Measuring	No Comments
	IS 10052 (Part 1/Sec 4)	Dt 25 th Jan- 22	Apparatus and Methods — Specification	received
	CISPR 16-1-4: 2020		Part 1 Radio Disturbance and Immunity	
	CISPK 10-1-4. 2020		Measuring Apparatus Section 4 Antennas and	
			test sites for radiated disturbance	
			measurements [First Revision of IS 10052 (Part	
			1/Sec 4)] ICS : 33.100.10; 33.100.20	
4.	LITD 09 (18776)	LITD 09/ T	Electromagnetic compatibility (EMC) –	Comments
	IS 14700 (Part 4/Sec 3)	Dt 25 th Jan- 22	Part 4 Testing and Measurement Techniques	received from Schneider
	IEC 61000-4-3 : 2020		Section 3 Radiated, radio-frequency	Electric
			electromagnetic field immunity test [Second	Annex B
			Revision of IS 14700 (Part 4/Sec 3)]	(Page 12-16)
5.	LITD 09 (18777)	LITD 09/ T	ICS: 33.100.20 Electromagnetic compatibility (EMC) –	No Comments
5.	· · · · ·	Dt 25 th Jan- 22	Part 6 Generic standards Section 3 Emission	received
	IS 14700 (Part 6/Sec 3)	DI 20 Jaii- 22	standard for equipment in residential	IECEIVEU
	IEC 61000-6-3 : 2020		environments [Second Revision of IS 14700	
			(Part 6/Sec 3)] ICS: 33.100.10	

3.1.1 The Committee may consider to finalize the above mentioned wide circulation documents for printing as Indian Standards.

3.2 In the last meeting of LITD 09, Committee finalized the **IS/IEC/IEEE 62209-1528: 2020** for printing as Indian Standard.

3.2.1 In the meeting, the committee noted that IEC/IEEE 62209-1528: 2020 cancels and replaces IEC 62209-1:2016, IEC 62209-2:2010, IEC 62209-2:2010/AMD1:2019 However in India, both IEC

Eleventh Meeting of Electromagnetic Compatibility Sectional Committee, LITD 09: **30TH** March 2022 through WEBEX 62209-1 & 2 are referred in Telecommunication Engineering Centre (TEC), Min. of Communications notifications. Hence it was decided that unless TEC viewpoint are received on IEC 62209-1 & 2 are obtained, both IS/IEC 62209-1: 2016 and IS/IEC 62209-2: 2019 will run concurrently along with IS/IEC/IEEE 62209-1528: 2020 in India without any time limit.

3.2.1 The Committee may kindly re-examine it, since as per TEC regulation is IS/IEC 62209-1 & 2 are valid for all the mobiles and printing of IS/IEC 62209-1528: 2019 may create confusion for manufactures/importers.

ITEM 4 PRESENT POSITION OF WORK (POW) OF LITD 09

4.1 The present position of work of LITD 09 is given in Annex 3 (Pg 17-22) *The Committee may note and review the POW.*

ITEM 5 REVIEW OF PUBLISHED INDIAN STANDARDS

5.1 In accordance with BIS procedure, Indian Standards which are in existence for more than 3 years are to be reviewed for reaffirmation/revision/withdrawal. Latest status of such standards along with the status of the ISO/IEC standards, on which these are based. This list of Indian standards whose base ISO/IEC standards have been revised/withdrawn are given below with details of Status of base International Standards.

Sl. No	IS. No. & Title	Date of Last Reaffir mation	Correspondi ng International Standard	Latest Position of International Standard	Remarks
1	IS 6873 (Part 1) : 2010 Limits and methods of measurements of radio disturbance characteristics: Part 1 vehicles, boats and internal combustion engines (Third Revision)	Jan 2019	CISPR 12 : 2007	No Change	Standard may reaffirmed
2	IS 1885 (Part 85) : 2003 Electrotechnical vocabulary: Part 85 electromagnetic compatibility	Jan 2019	IEC 60050 - 161: 1990	Amd No 1 to 10 has been issued	Standard may reaffirmed
3	IS 12743 : 1989 Guide on methods of measurement of short duration transients on low voltage power and signal lines	Jan 2019	IEC Pub 816 (1984)	No Change	WC may be issued as per latest Standard
4	IS 14700 (Part 1/Sec 1) : 2000 Electromagenetic compatibility (EMC) Part 1 general: Sec 1 application and interpretation of fundamental definitions and terms	Jan 2019	IEC 61000- 1-1 (1992)	No Change	Standard may be reaffirmed

The Committee may examine and decide to revise/reaffirm or withdraw above mentioned Indian standards

5.2 Following Standards are due for review from April 2022 to March 2023

1	IS 6873(Part 4):2019 / CISPR 11(2016)	Limits and methods of measurements of Radio disturbance characteristics Part 4 Industrial, scientific and medical (ISM) radio frequency equipment [first revision]	Dec 2019
2	IS 6873(Part 5):2019 / CISPR 15:2021	Limits and Methods of Measurement of Radio Disturbance Characteristics Part 5 Electrical	Dec 2019

3	IS 14700(Part 4/Sec 1):2019 / IEC 61000-4-1(2016)	Electromagnetic compatibility (EMC) Part 4 Testing and measurement techniques Section 1: Overview of the IEC 61000-4 series (Second Revision)	May 2019
4	IS 14700(Part 4/Sec 5):2019 / IEC 61000-4-5(2017)	Electromagnetic compatibility (EMC) Part 4 Testing and measurement techniques - Sec 5 Electrical fast transient/burst immunity test (First Revision)	May 2019
5	IS 14700(Part 4/Sec 6):2016 / IEC 61000-4-6(2013)	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques Sec 6 Immunity to conducted disturbances, induced by radio- frequency fields	Apr 2019
6	IS 14700(Part 4/Sec 9):2019 / IEC 61000-4-9(2016)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 9: Impulse magnetic field immunity test (Second Revision)	May 2019
7	IS 14700(Part 4/Sec 12):2019 / IEC 61000-4-12(2017)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 12: Ring wave immunity test (Second Revision)	May 2019
8	IS 14700(Part 4/Sec 13):2016 / IEC 61000-4-13(2009)	Testing and measurement techniques - Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests	Apr 2019
9	IS 14700(Part 4/Sec 16):2019 / IEC 61000-4-16(2015)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 16: Test for immunity to be conducted, Common mode disturbances in the frequency range 0Hz to 150 kHz (Second Revision)	May 2019
10	IS 14700(Part 6/Sec 1):2019 / IEC 61000-6-1(2016)	Electromagnetic compatibility (EMC)-Part 6 Generic standards Sec 1 Immunity standard for residential. Commercial and light-industrial environments(first Revision)	Jul 2019
11	IS 14700(Part 6/Sec 2):2019 / IEC 61000-6-2(2016)	Electromagnetic compatibility (EMC)-Part 6 Generic standards Sec 2 Immunity for industrial environments (first Revision)	Jul 2019
12	IS 15040:2019 / CISPR 25 (2016)	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement (First rev	Dec 2019 ision)
13	IS CISPR(Part 32):2015 / CISPR 32:2015	Electromagnetic compatibility of multimedia Equipment Emission Requirements	May 2019

5.2.1 The Committee member who volunteers may review the above mentioned Standards as per BIS working Sheet.

ITEM 6 INTERNATIONAL STANDARDIZATION ACTIVITIES

6.1 Presently, LITD 09 acts as National Mirror Committee of IEC/ TC 77, IEC/ TC 77A, IEC/ TC 77B, IEC/ TC 77C, IEC/ TC 106, CISPR, CIS/A, CIS/B, CIS/D, CIS/F, CIS/H and CIS/I.

India is also O-member on IEC/TC 77C., CISPR, CIS/A, CIS/D, CIS/F, CIS/I and CIS/H.

6.2.1 The Committee may review the Status (P/O) of above mentioned International Committees

6.3 List of International Standards formulated by various IEC Committees along with their SCOPE are given in Annex 4 (Separate Attachment) and also given in link below:

i) List of standards published by IEC/TC 77 Electromagnetic compatibility are given at following link: <u>https://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1265</u>

ii) List of standards published by IEC/TC 77A EMC - Low frequency phenomena: http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1384

iii) List of standards published by IEC/TC 77B High frequency phenomena: http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1385

iv) List of standards published by IEC/TC 77C High power transient phenomena: http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1387

v) List of standards published by IEC/TC 106 Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure: http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1303

vi) List of standards published by CIS/A Radio-interference measurements and statistical methods: <u>http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1327</u>

vii)List of standards published by CIS/B Interference relating to industrial, scientific and medical radiofrequency apparatus, to other (heavy) industrial equipment, to overhead power lines, to high voltage equipment and to electric traction :

http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1412

viii)List of standards published by CIS/D Electromagnetic disturbances related to electric/electronic equipment on vehicles and internal combustion engine powered devices: http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1419

ix) List of standards published by CIS/F Interference relating to household appliances tools, lighting equipment and similar apparatus : http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1424

x) List of standards published by CIS/H Limits for the protection of radio services : http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1439 xi) List of standards published by CIS/I Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers:

http://www.iec.ch/dyn/www/f?p=103:22:0::::FSP_ORG_ID:1444

- The Committee may examine and identify the International Standards to be adopted as Indian 6.3.1 Standards.
- The list of working groups under IEC/TC 77, 106 and CISPR is given below: 6.4

Sr	Title	Subcommittee/Working Groups	Expert
No			
1	TC 77 Electromagnetic	WG 13 Generic EMC Standards - Maintenance of	Dr. B Subba Rao
	compatibility	IEC 61000-2-5	Shri Bipin Jambholkar

Sr	Title	Subcommittee/Working Groups	Expert
2	IEC/TC 77A		Dr. B Subba Rao
	EMC - Low	WG 1 Harmonics and other low-frequency	Shri Sulekh Chand
	frequency	disturbances	Shri Ashutosh Pandey,
	phenomena		Ms. Neha Upadhyay,
	WG 2 Voltage fluctuations and other low-frequency disturbances	WG 2 Voltage fluctuations and other law frequency	Dr. B Subba Rao
		Shri Ashutosh Pandey,	
		disturbances	Ms. Neha Upadhyay
	WG 6 WG 8		Dr. B Subba Rao
		WG 6 Low frequency immunity tests	Ms. Neha Upadhyay,
			Shri Manish Kumar Singh,
		WG 8 Description of the electromagnetic environment associated with	Dr. B Subba Rao
		the disturbances present on electricity supply networks	
		WG 9 Power Quality measurement methods	Dr. B Subba Rao

Sr	Title	Subcommittee	e/Working Groups	Expert
High frequency phenomena JTF REV Reverberation JTF TEM			ted and conducted continuous nmunity tests	Dr. B Subba Rao Ms. Neha Upadhyay, Shri Manish Kumar Singh,
			Joint Task Force CISPR/A/SC77B on chambers linked to CIS/A	Dr. B Subba Rao
		-	Joint Task Force CISPR/A/SC77B on ides linked to CIS/A	Dr. B Subba Rao
		JTF FAR and SC77B or by CIS/A	Joint Task Force between CISPR/A n Fully anechoic rooms (FARs) Managed	Shri G.Subba Rao

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Sr	Title	Subcommittee/Working Groups	Organization
4	TC 106 Methods for the assessment of magneticWG 8 Addressing methods for assessment of contact current related to human exposures to electric, magnetic and electromagnetic fields		Shri Ashutosh Pandey, Shri Harshit Modi, Dr.S.K.Dubey Shri Bipin Jambholkar
	electromagneticWG 9Addressing methods for assessment offieldsassociatedWireless Power Transfer (WPT) related to human		1 5 5 1
	with human exposures to electric, magnetic and electromagnetic fields		

Sr	Title	Subcommittee/Working Groups	Organization
5	CIS/B Interference relating to industrial, scientific and medical radio-frequency apparatus, to other (heavy)	WG 1 Industrial, scientific and medical (I.S.M.) radio frequency apparatus	Shri Ashutosh Pandey, Shri Manish Kumar Singh,
	industrial equipment, to overhead power lines, to high voltage equipment and to electric traction	WG 2 Interference from overhead power lines, high-voltage equipment and electric traction	

6.5.1 The Committee in its last meeting has decided that Organizations mentioned below will try to contribute in following Committees work/documents in which India is Observer member, so that Committee may consider upgrading Indian Status from O-Member to P-Member.

Sr	Title	Subcommittee/Working Groups	Organization
1	CIS/A Radio-interference	WG 1 EMC instrumentation specifications	DGAQA
	measurements and	WG 2 EMC measurement techniques, statistical	DGAQA
	statistical methods	methods and uncertainty	

Sr	Title	Subcommittee/Working Groups	Organization
2	CIS/F Interference relating	WG 1 Household appliances incorporating	ERTL (N)
	to household appliances	electric motors and contact devices	
	tools, lighting equipment and similar apparatus	WG 2 Lighting equipment	-

Sr	Title	Subcommittee/Working Groups	Organization
3	CIS/H Limits for the	WG 1 A survey of EMC product standards on emission	AAI
	protection of radio	JWG 5 Use of medium-sized EUT volumes at alternative	AAI
	services	test sites SAC and FAR Managed by CIS/A	

Sr	Title	Subcon	mmittee/Working Groups	Organization
4	CIS/I Electromagnetic compatibility	MT 7	Maintenance of CISPR 32	BECIL,DGAQA
	of information technology	MT 8	Maintenance of CISPR 35	BECIL,DGAQA,TEC

equipment, multimedia equipment and receivers	MT 9	Maintenance of CISPR 29	BECIL,DGAQA

6.5.2 Other Committees of IEC/CISPR in the ambit of LITD 09 work:

Sr	Title	Subcommittee/Working Groups
1	SC 77C High	PT 61000-5-10 Guide to the Application of HEMP and IEMI Publications
	power	MT 61000-2-10 Electromagnetic compatibility (EMC) - Part 2-10: Environment-
	transient	Description of the HEMP environment - Conducted disturbance
	phenomena	MT 61000-4-25 Electromagnetic compatibility (EMC) - Part 4-25: Testing and
		measurement techniques - HEMP immunity test methods for equipment and systems
		MT 61000-4-36 Electromagnetic compatibility (EMC) - Part 4-36: Testing and
		measurement techniques - IEMI immunity test methods for equipment and systems

Sr	Title	Subcommittee/Working Groups
2	CIS/D	WG 1Protection of receivers used in buildings, along the roadside, or
	Electromagnetic disturbances	in outdoor areas
	related to electric/electronic	WG 2 Protection of on-board and adjacent vehicle receivers
	equipment on vehicles and internal combustion engine powered devices	Joint Working Groups JWG A-SITE-VAL Joint Task Force between CISPR/D and CISPR/A - Chamber validation methods

Sr	Title	Subcommittee/Working Groups
3	CIS/S Steering Committee	WG 2 Definitions

6.5.1 In order to increase India's participation into these committees, the committee may nominate experts into these Working Groups.

ITEM 7 WTO-TBT ENQUIRY POINT

7.1 World Trade Organization (WTO) is the International Organization dealing with global rules of trade between nations. The Technical Barriers to Trade Agreement (TBT) tries to ensure that Regulations, Standards, Conformity Assessment procedures do not create unnecessary obstacles to trade. Manufactures and exporters of each country need to know about the latest standards and technical regulations in their prospective markets. To help ensure that this information is made available conveniently, all WTO member Governments are required to establish National Enquiry Point. India is a signatory to the WTO TBT Agreement. Under this Agreement, India has to fulfill certain obligations such as establishing an enquiry point and transparency of its standards and its regulations. BIS functions as the enquiry point as nominated by Ministry of Commerce, the dealing Ministry with WTO.

- **7.2** As the WTO TBT Enquiry Point, BIS answers all the reasonable enquiries pertaining to Technical Regulation, Standards and Conformity Assessments procedures addressed to it from the Enquiry Points of other countries. It also serves as the information centre within the country. Additionally, BIS also disseminates the TBT Notifications of other member bodies to the National Stakeholders.
- **7.3** The awareness regarding TBT notifications is lacking among various stakeholders in India and as a result India is not sending its comments on draft notifications by other countries, which may be of trade interest to India. As signatory of WTO-TBT agreement, there is a greater need for us to be aware of the TBT notifications issued by different countries in order to protect our interest.
- **7.4** BIS disseminates the TBT Notifications of other countries to the Indian Stakeholders with a view to seek their comments and taking up the same at appropriate forum. The stakeholders are expected to examine the notifications on the following aspects:
 - i) Are the notifications in accordance with International Standards?
 - ii) Are they stricter than the International Standards?
 - iii) Are they stricter than the International Standards then necessary to meet the legitimate objective of
 - Protection of human health or safety
 - > Animal or Plant life or health
 - Environment Protection
- **7.5** The BIS technical committees have also been identified as stakeholders for the TBT Notifications and relevant notifications are being disseminated to them. The committee members should examine the TBT Notifications with a view to protect Indian trade interest.

7.6 The e-mail address of BIS Enquiry Point is as follows: BIS: info@bis.org.in Website: www.bis.org.in

The Committee may note.

ITEM 8 ELECTRONICS AND INFORMATION TECHNOLOGY GOODS (REQUIREMENTS FOR COMPULSORY REGISTRATION) ORDER, 2012

8.1 Ministry of Information and Technology, Department of Electronics and IT(DeitY) has issued the Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012, bringing into force a scheme for mandatory regime of registration of identified 44 electronic products so that these products meet specified safety standards (Out of which 29 belongs LITD). According to this order, No person shall manufacture or store for sale and import of electronics goods which do not conform to the specified Indian standard and do not bear the self declaration- Conforming to IS on such goods after obtaining Registration from BIS. The detail information of the registration scheme is available on BIS website http://www.bis.org.in.

The Committee may note.

ITEM 9 INFORMATION ON E-SALE OF STANDARDS BY BIS

9.1 Bureau of Indian Standards, the National Standards Body of India has published more than 19000 Indian Standards which are available for sale. They are available on e-sale as under: Softcopy download from BIS sales portal http://www.standardsbis.in.

The Committee may note.

ITEM 10 NATIONAL INSTITUTE FOR TRAINING IN STANDARDISATION (NITS)

10.1 National Institute of Training for Standardization (NITS) has been set up by BIS with world class facilities to impart training on various aspects leading to standardization, quality and other management systems, consumer protection, public service delivery, etc. The training calendar for the current year is available on BIS web site http://www.bis.org.in. The organizations willing to depute their personnel for training may kindly go through the appropriate programme and get them registered to undergoing training.

The Committee may note.

ITEM 11 DATE AND PLACE FOR THE NEXT MEETING

ITEM 12 ANY OTHER BUSINESS

ANNEX 1 (Item 2.1)

ELECTROMAGNETIC COMPATIBILITY SECTIONAL COMMITTEE LITD 09 COMPOSITION

Io. 1				17-02-20	16-12-20	11-08-21					
1											
1	SAMEER			Y	Y	Y	3/3				
		Dr. B. Subbarao	Chairman								
2	Airport Authority Of I	ndia (AAI)		Y	Y	Ν	2/3				
_		Shri Anurag Sharma	Principal								
		Shri J B Singh	Alternate								
3	All India Radio (AIR)			Ν	Ν	Y	1/3				
		Shri S K Srivastva	Principal								
		Shri Akhilesh Prasad	Alternate								
1	Automotive Research A	Association of India (ARAI)		Ν	N	Y	1/3				
г		Shri A.B. Mulay	Principal								
		Shri Nishit Shankar	Alternate								
5	Broadcast Engineering	Consultants India Ltd (BECII	L)	N	Ν	Ν	0/3				
,		Shri W.B.Prasad	Principal								
		Mr. Mazar Umer	Alternate								
		Shri Khuswinder Singh Bhatia	2 nd Alternate								
6	Bharat Electronics Ltd	. (BEL)		Ν	N	Ν	0/3				
0		Shri Ajay Khilnani	Principal								
		Shri G.Subba Rao	Alternate								
7	BNN Speag, Test and C	Calibration Laboratory Indian	Pvt ltd,	Y	Y	Y	3/3				
/		Shri Nitin Jain	Principal								
		Shri Nikhil Jain	Alternate								
8	Central Electricity Aut	hority (CEA)		Ν	N	Ν	0/3				
0		Shri Naresh Kumar	Principal								
		Shri Lokesh kumar Meena	Alternate								
9	Consumer Electronics	and Appliance Mfrs.Association	n (CEAMA)	N	Y	Y	2/3				
7		Shri Srinivasu Moturi	Principal								
		Shri Anil Mehta	Alternate								
		Mr. Rajaram Dere	2 nd Alternate								
0	Cellular Operators Ass	ociation of India (COAI)		N	Ν	Ν	0/3				
10	-	Ms Sugandha Berry	Principal								
		Shri Rohit Singh									
1	Directorate of Coordin	ation, Police Wireless (DCPW)		N	Y	Ν	1/3				
1		Shri Amarjeet Singh									
2	Directorate General Do	oordarshan, Prasar Bharati (D	D)	N	N	Y	1/3				
2		Principal									
		Shri D P Singh Shri Rajesh Meena	Alternate								

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13	Dte. General of Aeronautical Quality Assurance (DGAQA)	Y	Ν	Y	2/3
	Shri Manoj Sharma Principal				
14	Electronics Corporation of India Ltd. (ECIL)	Y®	Ν	Ν	1/3
	Shri A Bhaskar Rao Princip	bal			
	Shri S. Subba Rao Alterna	ate			
15	Electronic Component Industries Association (ELCINA)	Ν	Y	Y	2/3
	Shri Rajoo Goel Princip	bal			
16	Electronics Regional Test Lab. (North)	Y	Y	Y	3/3
10	Shri Sulekh Chand Princip	bal			
17	Joint Communications & Electronic Staff	Y	Ν	Y	2/3
17	Col. Rajnish Sethi Princip	bal			
	Gp Capt JR Kelkar Alterna	ate			
18	Ministry of Electronics & Information Technology (MeitY)	N	Ν	Ν	0/3
10	Dr Bharat Kumar Yadav Principal				
19	National Physical Laboratory (NPL)	Ν	Ν	Y	1/3
19	Dr. S.K. Dubey Princip	bal			
20	In Personal Capacity	Y	Ν	Ν	1/3
20	Shri I. S. Mehla Princip	bal			
21	Telecommunication Engineering Centre (TEC), DOT	Y	Ν	Ν	2/3
21	Shri Asutosh Pandey Princip	bal			
	Shri P.S. Jadon Alterna	ate			
	Ms Neha Upadhyay 2nd Al	t.			
22	Telecom Equipment Manufactures Assn. of India (TEMA)	Ν	Y	Y	2/3
22	Shri Prof. N.K. Goyal Princip	bal			
	Ms Manisha Kumari Alterna	ate			
23	TUV Rheinland (India) Pvt Ltd	Y	Ν	Y	2/3
23	Shri Ravindra Kumar Princip	bal			
	Shri Rajesh Gupta Alterna	ate			
23	Voluntary Orgn. in Interest of Consumer Education (VOICE)	Y	Y	Y	3/3
23	Shri H S Wadhwa Princip	bal			
	Shri K.C. Chaudhary Alterna	ate			
24	Wireless Planning and Coordination Wing	Ν	Ν	Ν	0/3
∠4	Shri Gulab Chand Princip	bal			
	Shri Ashim Dutta Alterna	ate			
25	Samsung India Electronics Private Limited	-	Y	Y	2/2
23	Shri Saurabh Nag Princip	pal			

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ANNEX B (Item 3.1) Comments of M/s Schneider Electric

S No	Docu ment No.	Clause/ title	Docu- ment Page no	Comments of MI/S Schneider Electr	BIS Comments
1		National Foreword	1	This draft Indian Standard (Part 2 Part 1/Sec 1) (forth revision) which is identical with CISPR 14-1: 2020 'Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission'	The suggestion for changing Part No from (Part 2/Sec 1) to (Part 1/Sec 1) cannot be accepted as Part 1 is already given to CISPR 12 and is referred in numerous Indian Standards.
2		Name or title of the document	1	Limits and Methods of Measurement of Radio Disturbance Characteristics PART 2 PART 1 Electromagnetic Compatibility EMC Requirements for Household Appliances Electric Tools and Similar Apparatus Section 1 Emission Forth Revision of IS 6873 Part 2 Part 1 Sec 1	As informed in Point No.1, suggestion cannot be accepted.
3		Degree of Equivalen ce table	2	Reference to CISPR 16-1-4:2019 can be updated to CISPR 16-1-4:2020 with corresponding Indian standard Degree of Equivalence Identical With CISPR 16-1-4 : 2017 can be changed to CISPR 16-1-4 : 2020	As per the norm, unless specified latest version of refereed Standards need to be referred, unless specific year is mentioned. CISPR 16-1-4: 2020 has completed the WC and will automatically referred in final draft.
4	LITD 9 18772 Point	Degree of Equivalen ce table	3	Missing : Corresponding Indian Standard must be mentioned in page 2/3 for CISPR 14-1 : 2020 asIS 6873 (Part 1/Sec 1)	As mentioned above the suggestion cannot be accepted.
5	1 to 5	Recomme ndations for additional informatio n	1	identical with CISPR 14-1: 2020 Good to mention the changes in LITD 9(18772) document with respect to the CISPR 14-1: 2020 latest changes: a) extension of the frequency range for radiated immunity above 1 GHz; b) an advanced categorisation of equipment; c) revision of general test conditions and addition of new specific test conditions (e.g. for robotic equipment); d) clarification of requirements applicable to equipment incorporating radio functions; e) addition of requirements for wired network ports; f) revision of definitions and addition of new ones; g) delete requirements referring to statistical evaluation; h) alignment with CISPR 14-1, where applicable. Kindly see the feasibility if there is any possibility to add products used in public gathering areas like amusement parks, GYM centers, spiritual centers, public transpiration areas like stations, schools and collages, community halls,	As Standard is in wide circulation and the information is already available in CISPR 14-1: 2020. B) For feasibility to add products, no data/study submitted, hence suggestion may not be accepted.

	Eleventh Meeting of Electromagnetic Compatibility Sectional Committee, LITD 09: 30 TH March 2022 through WEBEX							
6		Name or title of the document	1	Limits and Methods of Measurement of Radio Disturbance Characteristics PART 2 Electromagnetic Compatibility EMC Requirements for Household Appliances Electric Tools and Similar Apparatus Section 2 Emission-(Immunity) Product Family Standard	The suggestion for changing title cannot be accepted as we are adopting IEC as single no. Standard. Also no justification given for changing the title name.			
7		Degree of Equivalen ce table	2	Corresponding Indian Standard mentioned in page 3 for CISPR 14-1 : 2020 is IS 6873 (Part 2/Sec 1) is wrong it must be IS 6873 (Part 1/Sec 1)	As informed in Point No.1, suggestion cannot be accepted.			
8		Degree of Equivalen ce table	2	Missing : Corresponding Indian Standard must be mentioned in page 3 for CISPR 14-2 : 2020 asIS 6873 (Part 2/Sec 2) : 2015 Limits and Methods of Measurements of Radio Disturbance Characteristics Part 2 Electromagnetic Compatibility (EMC) - Requirements for Household Appliances, Electric Tools and Similar Apparatus Section 2 Immunity - Product family standard (third Revision)[2020 version Wide Circulation]	Page No.3 informs about the Scope of CISPR 14-2: 2020 as it is Wide Circulation document only. Also history of Indian Standard is given in page1 of WC. Hence suggestion may be rejected.			
9	LITD 9 18774 Point 6 to 10	NATION AL FOREW ORD	1	This draft Indian Standard (Part 2/Sec 2) (Fourth Revision) which is identical with CISPR 14-2: 2020 'Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Emission Immunity	As inform in point 6, suggestion cannot be accepted.			
10		Recomm endation s for additional informati on	1	identical with CISPR 14-2: 2020 Good to mention the changes in LITD 9(18774) document with respect to the CISPR 14-2: 2020 latest changes: – extension of the frequency range for radiated measurements above 1 GHz; – revision of general test conditions and addition of new specific test conditions (e.g. for robotic equipment); – introduction of additional requirements for equipment making use of inductive power transfer technology; – remove from the normative text any compliance requirement based on statistical evaluation; revision of clicks analysis, with particular relevance to the determination of the observation time and the application of the upper quartile method for different types of click analysers. Kindly see the feasibility if there is any possibility to add products used in public gathering areas like amusement parks, GYM centers, spiritual centers, public transpiration areas like stations, schools and collages, community halls,	As Standard is in wide circulation and the information is already available in CISPR 14-2: 2020. B) For feasibility to add products, no data/study submitted, hence suggestion may not be accepted.			

	Eleventh Meeting of Electromagnetic Compatibility Sectional Committee, LITD 09: 30 TH March 2022 through WEBEX							
				identical with IEC CISPR 16-1-4: 2020,	As Standard is in wide circulation			
				Good to mention the changes in LITD	and the information is already			
				9(18775) document with respect to the	available in CISPR 16-1-4: 2020.			
				CISPR 16-1-4: 2020 latest changes:				
		Recomm		provisions are added to address test site				
		endation s for		validation in the frequency range from 30 MHz to 1000 MHz using the reference				
11	LITD 18775	additional	1	site method, to take into account the				
	10// 5	informati		receive antenna radiation pattern in the				
		on		frequency range from 1 GHz to 18 GHz,				
		-		and further details on test site validation				
				using the NSA method with broadband				
				antennas in the frequency range. from				
				30 MHz to 1 000 MHz.				
				identical with IEC 61000-4-3 : 2020,	As Standard is in wide circulation			
				Good to mention the changes in LITD	and the information is already			
				9(18776) document with respect to the	available in IEC 14700-4-3: 2020.			
				IEC 61000-4-3 : 2020 latest changes: This				
				edition includes the following significant				
		Recomm		technical changes with respect to the				
		endation		previous edition:a) testing using multiple				
12	LITD	s for	1	test signals has been described;				
12	18776	additional		b) additional information on EUT and				
		informati		cable layout has been added;				
		on		c) the upper frequency limitation has				
				been removed to take account of new				
				services;d) the characterization of the				
				field as well as the checking of power				
				amplifier linearity of the immunity chain are specified.				
				This edition includes the following significant	As Standard is in wide circulation			
		Recomm		technical changes with respect to the	and the information is already			
		endation		previous edition: a) alternative method for	available in IEC 14700-6-3: 2020.			
13		s for	1	measuring conducted emissions on DC ports;	available in IEC 14700-6-5. 2020.			
		additional		b) limits and requirements applicable only to				
		informati		equipment intended to be used in residential locations; more stringent limits for DC power				
		on		ports.				
				corresponding Indian standard for CISPR	AS per the norm, unless specified			
				14-1 : 2016 mentioned as IS 6873 (Part	latest version of refereed			
		-		2/Sec 1) : 2016	Standards need to be referred,			
	LITD 9	Degree		corresponding Indian standard for CISPR	unless specific year is mentioned.			
14	LITES	of Equivale	2	14-1 : 2020 should be IS 6873 (Part 1/Sec	CISPR 14-1: 2020 has completed			
	18777	nce table		1) : 2020	-			
				Degree of Equivalence Identical With	the WC and will automatically			
				CISPR 14-1 : 2016 can be changed to	referred in final draft.			
				CISPR 14-1 : 2020				
				Poference CISPR 10.1.4.2010 are be	AS per the norm, unless specified			
		Decree		Reference CISPR 16-1-4:2019 can be	latest version of refereed			
		Degree		updated to CISPR 16-1-4:2020 with corresponding Indian standard	Standards need to be referred,			
15		of Equivale	2	Degree of Equivalence Identical With	unless specific year is mentioned.			
		nce table		CISPR 16-1-4 : 2019 can be changed to	CISPR 16-1-4: 2020 has completed			
				CISPR 16-1-4 : 2020	the WC and will automatically			
					referred in final draft.			

	Remarks on improvement in the future versions of IS 6873-2-2 document								
16	CISPR 14-2: 2020	IEC 61000-4- 4: 2012 – Electrical fast transient/ burst immunity test	IS 6873- 2-2 Clause 5.2	The remark is from basic standard IEC 61000-4-4 clause 5. The standard states that the test must be performed with a repetition frequency of 5 kHz, but this is a common practice; however, 100 kHz is closer to reality.	No data/study submitted for changing the frequency. Hence suggestion may not be accepted.				
17	CISPR 14-2: 2021	IEC 61000-4-2 : 2008 – Electrosta tic discharge immunity test	IS 6873- 2-2 Clause 5.1	IEC 61000-4-2 Clause : 5.1 Apply 20 discharges (10 with positive and 10 with negative polarity) to each selected discharging point. Tests with other (lower) voltages than those given in Table 1 are not required. For air discharge testing, the test shall be applied at all test levels in Table 1 up to and including the specified test level. For contact discharge testing, the test shall be applied at the specified test level only.	No data/study submitted for changing the frequency. Hence suggestion may not be accepted.				

Remarks on improvement in the future versions of IS 6873-2-2 document

ANNEX 3

(Item 4.1) 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 WITH IEC COMMITTEES

SI. No. IS Number/ DOC Number

IEC/TC 77 Electromagnetic Compatibility	(P-Member)
IEC/SC 77A Low Frequency Phenomena	(P-Member)
IEC/SC 77B High Frequency Phenomena	(P-Member)
IEC/SC 77C High Power Transient Phenomena	(O-Member)
IEC/TC 106 Methods for the assessment of Electric, Magnetic	(P-Member)
and Electromagnetic fields associated wih human exposure	
CISPR International Special Committee on Radio Interference	(O-Member in all CISPR,
	CIS-A, C, D, E, F, G, H and I.)
IEC CIS/B : Interference Relating To Industrial, Scientific And Medical	(P-Member)

IEC CIS/B : 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

Title

			Date
STAN	NDARDS PUBLISHED		Date
1	IS 1885 (Part 85):2003 / IEC60050-161 (1990)	Electrotechnical vocabulary - Electromagnetic compatibility	Jan 2019
2	IS 6873 (Part 1):2010 / CISPR 12(2007)	Limits and methods of measurements of radio disturbances characteristics: Part 1 Vehicles, boats and internal combustion engine (Third Revision)	Jan 2019
3* Doc.	IS 6873 (Part 2/Sec 1):2019 / CISPR 14-1 (2016) No. : LITD 09 (18772)	Limits and methods of measurements of radio disturbance characteristics Part 2 Electromagnetic Compatibility (EMC) - Requirements for household appliances electric tools and similar apparatus Sec 1 Emission (fourth revision)	Jul 2019
4* Doc.	IS 6873(Part 2/Sec 2):2019 / CISPR 14-2 (2015) No. : LITD 09 (18774)	Limits and methods of measurements of radio disturbance characteristics Part 2 Electromagnetic Compatibility (EMC) - Requirements for household appliances electric tools and similar apparatus Sec 2 Emission - Product Family Standard (Fourth revision)	May 2019
5	IS 6873(Part 4):2019 / CISPR 11(2016)	Limits and methods of measurements of Radio disturbance characteristics Part 4 Industrial, scientific and medical (ISM) radio frequency equipment [first revision]	Dec 2019
6	IS 6873(Part 5):2019 / CISPR 15:2021	Limits and Methods of Measurement of Radio Disturbance Characteristics Part 5 Electrical Lighting and Similar Equipment (Third Revision)	Dec 2019
7	IS 10052 (Part 1/Sec 1):2021 / CISPR 16-1-1: 2019 Doc	Radio disturbance and immunity Measuring Apparatus and Methods Specification Part 1 Radio disturbance and Immunity Measuring	May 2019

	Eleventh Meeting of Electromagnetic	Compatibility Sectional Committee, LITD 09: 30^{тн} March 2022 through WEB Apparatus Section 1 Measuring apparatus (Third Revision)	EX
8*	IS 10052 (Part 1/Sec 3):2021 / CISPR 16-1-3(2016)	Radio disturbance and immunity Measuring apparatus and methods Specification Part 1 Radio disturbance and immunity measuring apparatus Section 3 Ancillary equipment - Disturbance power	Jul 2021
9* Doc.	IS 10052(Part 1/Sec 4):2021 / CISPR 16-1-4 (2017) No. : LITD 09 (18775)	Radio disturbance and immunity Measuring apparatus and methods Specification Part 1 Radio disturbance and immunity measuring apparatus Section 4 Antennas and test sites for radiated disturbance measurements	Jul 2021
10*	IS 10052(Part 1/Sec 5):2018 / CISPR 16-1-5 (2016)	Radio disturbance and immunity Measuring apparatus and methods Specification Part 1 Radio disturbance and immunity measuring apparatus Section 4 Antennas calibration sites and reference test sites for 5 MHz to 18 GHz	Jul 2021
11*	IS 10052(Part 2/Sec 1):2018 / CISPR 16-2-1(2014)	Specification for radio disturbances and immunity measuring apparatus and methods: Part 2 Methods of measurement of disturbances and immunity Section 1Conducted distribution (Second revision)	Jul 2021
12*	IS 10052(Part 4/Sec 4):2018 / CISPR/TR 16-4-4 (2017)	Radio disturbance and immunity Measuring apparatus and methods Specification Part 4 Uncertainties, statistics and limit modeling Section4 Statistics of complains and a model for the calculation of limits for the protection of radio services	Jul 2021
13*	IS 12233(Part 1):2018 / CISPR 18-1(2017)	Radio interference characteristics of overhead power lines and high voltage equipment - Part 1 Description of phenomena	Sep 2021
14	IS 12233(Part 2):2021 / CISPR 18-2(2017)	Electromagnetic interference characterstics of overhead power lines and high voltage equipment: Part 2 Methods of measurement and procedure for determining limits(First Revision)	Dec 2020
15*	IS 12233(Part 3):2019 / CISPR 18-3: 2017	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) ICS : 33.100.01	May 2021
16	IS 12743:1989 / IEC 60816: 1984	Guide on methods of measurement of short duration transients on low voltage power and signal line	Jan 2019 s
17	IS 13397: 2018 / IEC/TR 60725-2012	Considerations on reference impedances and public supply network impedances for use in determining the disturbance charcteristics of electrical equipment having a rated current < 75 A per phase (First Revision)	Mar 2021
18	IS 14700(Part 1/Sec 1):2000 / IEC 61000-1-1 (1992)	Electromegnetic compatibility (EMC) Part 1: General section:1 Application and interpretation of fundamental definitions and terms	Jan 2019
19	IS 14700(Part 3/Sec 2):2020 / IEC 61000-3-2(2018)	Electromagnetic compatibility Part 3 Limits Sec 2 Limits for harmonic current emmissions (equipment input current =< 16A per phase) (Second Revision)	Mar 2021
20	IS 14700(Part 3/Sec 3):2018	Electromegnetic compatibility (EMC) Part 3: Limits	Mar 2021

	Eleventh Meeting of Electromagnetic C / IEC 61000-3-3 (2013)	Compatibility Sectional Committee, LITD 09: 30^{TH} March 2022 through WEE Sec-3 Limitations of voltage changes, Voltage flctuations and flicker in low voltage supply systems for equipment with rated current =<16A phase and not subject to conditional connection (Second Revision)	θEX
21	IS 14700(Part 4/Sec 1):2019 / IEC 61000-4-1(2016)	Electromagnetic compatibility (EMC) Part 4 Testing and measurement techniques Section 1: Overview of the IEC 61000-4 series(Secound Revision)	May 2019
22	IS 14700(Part 4/Sec 2):2018 / IEC 61000-4-2(2008)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 2: Electrostatic discharge immunity test (Second Revision)	Mar 2021
23* Doc. I	IS 14700(Part 4/Sec 3):2018 / IEC 61000-4-3(2010) No. : LITD 09 (18776)	Electromagnetic compatibility (EMC) Part 4: Testing & measurement techniques Sec 3 Radiated, radio frequency, electromagnetic field immunity test (First Revision)	Sep 2020
24	IS 14700(Part 4/Sec 4):2018 / IEC 61000-4-4(2012)	Electromagnetic compatibility (EMC) Part 4 Testing and measurement techniques - Sec 4 Electrical fast transient/burst immunity test (Second Revision)	Mar 2021
25	IS 14700(Part 4/Sec 5):2019 / IEC 61000-4-5(2017)	Electromagnetic compatibility (EMC) Part 4 Testing and measurement techniques - Sec 5 Electrical fast transient/burst immunity test (First Revision)	May 2019
26	IS 14700(Part 4/Sec 6):2016 / IEC 61000-4-6(2013)	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques Sec 6 Immunity to conducted disturbances, induced by radio- frequency fields	Apr 2019
27	IS 14700(Part 4/Sec 7):2017 / IEC 61000-4-7(2009)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 7- General guide on harmonic and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto(First Revision)	Dec 2020
28	IS 14700(Part 4/Sec 8):2018 / IEC 61000-4-8(2009)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 8:Power frequency magnetic field immunity test (Second Revision)	Mar 2021
29	IS 14700(Part 4/Sec 9):2019 / IEC 61000-4-9(2016)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 9:Impulse magnetic field immunity test (Second Revision)	May 2019
30	IS 14700(Part 4/Sec 11):2 <i>021</i> / IEC 61000-4-11(<i>2020</i>)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 11: Voltage dips, short interruptions and voltage variations immunity test	May 2017
31	IS 14700(Part 4/Sec 12):2019 / IEC 61000-4-12(2017)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 12: Ring wave immunity test (Second Revision)	May 2019
32	IS 14700(Part 4/Sec 13):2016	Testing and measurement techniques - Harmonics	Apr 2019

	Eleventh Meeting of Electromagnetic (/ IEC 61000-4-13(2009)	Compatibility Sectional Committee, LITD 09: 30TH March 2022 through WE and interharmonics including mains signaling at a.c. power port, low frequency immunity tests	EBEX
33	IS 14700(Part 4/Sec 14):2018 / IEC 61000-4-14:2009	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 14 Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase	May 2021
35	IS 14700(Part 4/Sec 15):2018 / IEC 61000-4-15(2010)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 15:Flickermeter functional and design specification (Second Revision)	Mar 2021
36	IS 14700(Part 4/Sec 16):2019 / IEC 61000-4-16(2015)	Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques Section 16: Test for immunity to be conducted, Common mode disturbances in the frequency range 0Hz to 150 kHz (Second Revision)	May 2019
37	IS 14700(Part 4/Sec 17):2018 / IEC 61000-4-17:2009	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 17 Ripple on d.c. input power port immunity test	May 2021
38	IS 14700(Part 4/Sec 24):2018 / IEC 61000-4-24:2015	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 24 Test method for protective devices for HEMP conducted disturbance(First Revision)	Jul 2021
39	IS 14700(Part 4/Sec 25):2018 / IEC 61000-4-25:2012	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 25HEMP immunity test methods for equipment and systems.	May 2021
40	IS 14700(Part 4/Sec 32):2018 / IEC 61000-4-32:2002	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 32 High-Altitude Electromagnetic pulse HEMP Simulator Compendium	May 2021
41	IS 14700(Part 4/Sec 33):2018 / IEC 61000-4-33:2005	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 33 Measurement method for high power transient parameters	Jun 2021
42	IS 14700(Part 4/Sec 34):2017 / IEC 61000-4-34(2009)	EMC - Part 4-34:Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than16A/phase	Dec 2020
43	IS 14700(Part 4/Sec 35):2021 / IEC 61000-4-35:2009	Electromagnetic Compatibility (EMC) - Part 4 Testing and measurement techniques: Sec 35 HPEM simulator compedium	May 2021
44	IS 14700(Part 6/Sec 1):2019 / IEC 61000-6-1(2016)	Electromagnetic compatibility (EMC)-Part 6 Generic standards Sec 1 Immunity standard for residential. Commercial and light-industrial environments(first Revision)	Jul 2019
45	IS 14700(Part 6/Sec 2):2019 / IEC 61000-6-2(2016)	Electromagnetic compatibility (EMC)-Part 6 Generic standards Sec 2 Immunity for industrial environments (first Revision)	Jul 2019

46 Doc	IS 14700(Part 6/Sec 3):2021 / IEC 61000-6-3(2006) No. : LITD 09 (18776)	Electromagnetic compatibility (EMC) Part 6: Generic standards Section 3: Emission standards for residential, commercial and light industrial	May 2021
DOC.	NO EITD 09 (18770)	environment(First Revision)	
47	IS 15040:2019 / CISPR 25 (2016)	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement (First re	Dec 2019 vision)
48	IS 15874:2009 / CISPR 28(1997)	Industrial scientific and medical equipment (ISM)- Guidelines for emission levels within the bands designated by the ITU	Jan 2019
49	IS 16528:2017 / IEC 62232(2011)	Determination of RF field strength and SAR in the vicinity of radio communication base station for the purposed of evaluating human exposure	Dec 2020
50	IS 62209(Part 1):2005 / IEC 62209-1(2005)	Human exposure to radio freq. fields from hand- held and body-mounted wireless comm. devices- Huma models, inst. and procedures-Part 1 Procedure to deter the specific absorption rate(SAR)for hand-held devices in close proximity to the ear(freq. ran	rmine
51	IS 62209(Part 2):2 <i>019</i> / IEC 62209-2(<i>2019</i>)	Human exposure to radio freq. fields from hand- held and body-mounted wireless comm. devices- Human models, instrumentation and procedures : Part 2 Procedure to determine the SAR for wireless communication devices used in close proximity to the human body	Dec 2020
52	IS 62209(Part 3):2 <i>019</i>	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless com devices Part 3: Vector measurement-based systems (Frequency range of 600 MHz to 6 GHz)	
53	IS 62226(Part 1):2004 / IEC 62226-1(2004)	Exposure to electric or magnetic fields in the low and intermediate frequency range - Methods for calculating current density and internal electric field induced in the human body - Part 1 General	Feb 2021
54	IS 62226(Part 2/Sec 1):2004 / IEC 62226-2-1(2004)	Exposure to electric or magnetic fields in the low and intermediate frequency range - Methods for calculating current density and internal electric field induced in the human body - Part 2 Exposure to magnetic fields - Sec 1 2D Models	Mar 2021
55	IS 62226(Part 3/Sec 1):2016 / IEC 62226-3-1 (2016)	Exposure to electric or magnetic fields in the low and intermediate frequency range- Methods for calculating the current density and internal electric field induced in the human body Part 3 Exposure to electric fields Section 1 Analytical and 2D numerical	Jul 2021
56	IS 62233:2005 / IEC 62233 (2005)	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Mar 2021
57	IS 62311:2 <i>018</i> / IEC62311(2018)	Assessment of electronic and electrical equipmentrelated to human exposure restrictions for electromagnetic fields (0Hz -300 GHz)	June 2021
58	IS 62369(Part 1):2009 / IEC 62369-1:2009	Evaluation of human exposure to electromagnetic fields from short range devices (SRDS) in various	Apr 2021

	Eleventh Meeting of Electromagnetic C	Compatibility Sectional Committee, LITD 09: 30TH March 2022 through WEB applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by devices used for electronic article surveillance, radio frequency id	EX
59	IS 62479:2010 / IEC 62479 (2010)	Assessment of the compliance of low - power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	Jul 2021
60	IS 62577:2009 / IEC 62577 (2009)	Evaluation of human exposure to electromagnetic fields from a stand-alone broadcast transmitter (30 MHz - 40 GHz)	Jul 2021
61	IS CISPR(Part 32):2015 / CISPR 32:2015	Electromagnetic compatibility of multimedia Equipment Emission Requirements	May 2019
62	<i>IS CISPR(Part 35):2016</i> / CISPR 35:2016	Electromagnetic compatibility of multimedia Equipment Immunity Requirements	

ASPECT WISE REPORT

Product	12
METHODS OF TEST	37
CODES OF PRACTICES	7
TERMINOLOGY	1
OTHERS	5
	TOTAL: 62
* INDICATES STANDARDS UNDER REVISION	** INDICATES STANDARDS TO BE REVISED
/ INDICATES DUAL NUMBER STANDARDS	INDICATES EQUIVALENT STANDARDS

UNDER PRINTING

1.	Doc. No. : LITD 09 (17072) IS 10052 (Part 1/Sec 6) CISPR 16-1-6: 2014	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 Radio disturbance and immunity measuring apparatus Section 6 EMC antenna calibration ICS 33.100.10; 33.100.20
2.	Doc. No. : LITD 09 (17073) IS/CISPR TR 29: 2020	Television broadcast receivers and associated equipment – Immunity characteristics – Methods of objective picture assessment