

BUREAU OF INDIAN STANDARDS ELECTRONICS & IT DEPARTMENT

MINUTES					
ELEVENTH MAGNETIC C	ELEVENTH MAGNETIC COMPONENT, FERRITE MATERIALS,				
PIEZOELECTRIC AND FREQUENCY CONTROL DEVICES (LITD 24)					
DATE: 27 Oct 2023 (Friday)	MODE: Virtual				
TIME: 10:30 AM to 1:30 PM	VENUE: N.A.				
CHAIRPERSON: Dr P. Satheesan	LINK:				
MEMBER SECRETARY:	https://bismanak.webex.com/bismanak/j.php?MT				
Shri Chirag Shah	ID=m106edfcaac4349d17f164e5592eb2d7b				

PRESENT:

Sl. No.	Name	Organisation
i	Dr P. Satheesan (Chair) Ministry of Electronics and Information	
		Technology, New Delhi
ii	Dr. Palas Haldar	Cosmo Ferrites Limited, New Delhi
iii	Dr Ashok K	ISRO Satellite Centre, Bengaluru
iv	Dr. H Sreemoolanadhan	ISRO Satellite Centre, Bengaluru
V	Shri Nitish Kumar	STQC
vi	Shri Probal Mukherjee	Speedofer Components Private Limited, Greater
		Noida
vii	Shri Sadhab Chandra Ganda	Epcos India Private Limited, New Delhi
viii	Shri. Sanvasi Rao Rupiti	CEMILAC,DRDO
ix	Shri Rajneesh Garg	Indian Printed Circuit Association, Bengaluru
X	Shri Guruprasad C. N.	Bharat Electronics Limited, Bengaluru
xi	Smt Renuka M. Kembhavi	Bharat Electronics Limited, Bengaluru
xii	Shri Sharanappa.B	Bharat Electronics Limited, Bengaluru

Item 0 WELCOME AND OPENING REMARKS

- 0.1 The Member Secretary extended a warm welcome to the participants. He briefed the members on the agenda of the meeting and requested them to kindly introduce themselves.
- 0.2 After introduction of the members, the Member Secretary requested the Chairperson to kindly initiate the proceedings.
- 0.3 The Chairperson welcomed the participants and apprised them of the purpose of the meeting. He exhorted the members to actively participate in the meeting and contribute meaningfully to the formulation of standards under this committee.



Item 1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

1.1 The Member Secretary informed that the minutes of the 6th meeting of the committee held on 24 Jan 2023 were circulated on 17 May 2023. No comments were received on the minutes. Hence the committee formally confirmed the minutes of the 6th meeting.

Item 2 SCOPE & COMPOSITION OF SECTIONAL COMMITTEE LITD 35

- 2.1 The committee noted its scope as given in item 2.1 of the agenda.
- 2.2 The committee noted its Liaison as given in item 2.2 of the agenda.
- 2.3 New origination/subject experts may be co-opted as technology and scope of standards in this committee.
- 2.4 The committee noted its Composition as given in Annexure 1 of the agenda.
- 2.5 The committee noted the Attendance as given in Annexure 2 of the agenda

Item 3 PROGRAM OF WORK OF LITD 24

3.1 The committee noted the program of work of LITD 24 given in item 3.1 of the agenda.

Item 4 REVIEW OF INDIAN STADNARDS

4.1 Decisions taken with respect to review of Indian standards is given in the following table:

S.No.	IS Numbe r		Status	Base Standard	Remarks
1	IS 10337: 1982	Quartz			The Committee has decided



		Units for Wrist Watches	methods for tuning fork quartz crystal units in the range from 10 kHz to 200 kHz and standard values	689-1980 'Measurements and test methods for 32 kHz Quartz crystal unit for wrist watches and standard values' issued by the International Electrotechnical Commission.	to revise in Latest style and Format
2	IS 10370: Part 1: 1982		May be revised in latest style and format.	Indigenous	The Committee has decided to revise in Latest style and Format
3	IS 10370 : Part 2 : 1982	Dimensions of mounting accessories of pot cores for wired circuits: Part 2 for pot cores of size 18 x 11 mm	May be revised in latest style and format.	Indigenous	The Committee has decided to revise in Latest style and Format
4	IS 10370 : Part 3 : 1982		May be revised in latest style and format.	Indigenous	The Committee has decided to revise in latest style and Format
5	IS 10488 : Part 1 : 1983	Specificatio n for frame output transformers used with television picture tubes: Part 1 general	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.



		requirement s and tests			
6	IS 10488 : Part 2 : 1983	Specification for frame output transformers used with television picture tubes: Part 2 type fot ih for 470, 510, 590 and 610 mm television picture tubes	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.
7	IS 11014 : Part 1 : 1984	-	May be revised in latest style and format.	Indigenous	The committee has decided to revise it in Latest style and Format
8	IS 11014: Part 3: 1985		May be revised in latest style and format.	Indigenous	The committee has decided to revise it in Latest style and Format
9	IS 11296 : Part 1 : 1986	Method of magnetic testing of TV ferrite components: Part 1 measuremen t of magnetic properties of beam	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.



		centering magnet			
10	IS 11296: Part 2: 1985	Method for magnetic testing of TV ferrite components: Part 2 flux measuremen t of corner correction magnet	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.
11	IS 11296: Part 3: 1985	Method for magnetic testing of TV ferrite components: Part 3 flux measuremen t of pin cushion correction magnet	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.
12	IS 11299 : 1984	Guide for the selection and use of piezoelectric ceramic materials and elements	May be revised in latest style and format.	Indigenous	The committee has decided to revise it in Latest style and Format.
13	IS 11392: Part 2: Sec 1: 1985	Dimensions of mounting accessories of pot cores for printed circuit board mountings: Part 2 for pot cores of size 26 x 16 (Mm): Sec 1 type 1	May be revised in latest style and format.	Indigenous	The committee has decided to revise it in Latest style and Format.
14	IS 11392 : Part 3 :		May be revised in latest style and format.	Indigenous	The committee has decided



	Sec 1: 1985	of pot cores for printed circuit board mountings: Part 3 for pot cores of size 30 x 19 (Mm): Sec 1 type 1			to revise it in Latest style and Format.
15	IS 11455: Part 1: Sec 1: 1985	and	No Change in Base Standard, hence the Indian Standard May be revised in latest style and format or the International standard may be adopted as Identical adoption.	Based on IEC 60852- 1:1986	The committee has decided to revise it in Latest style and Format.
16		and	No Change in Base Standard, hence the Indian Standard May be revised in latest style and format or the International standard may be adopted as Identical adoption.	Based on IEC 60852- 1:1986	The committee has decided to revise it in Latest style and Format.



		Clamp mounting			
17	IS 11455: Part 1: Sec 3: 1985	and	No Change in Base Standard, hence the Indian Standard May be revised in latest style and format or the International standard may be adopted as Identical adoption.	Based on IEC 60852- 1:1986	The committee has decided to revise it in Latest style and Format.
18	IS 11455: Part 2: 1988	dimensions of transformers and	No Change in Base Standard, hence the Indian Standard May be revised in latest style and format or the International standard may be adopted as Identical adoption.	Largely based on IEC 60852-2:1992	The committee has decided to revise it in Latest style and Format.
19	IS 11455 :	Outline dimensions of	No Change in Base Standard, hence the Indian Standard May be revised in	Largely based on 60852- 5:1994	The committee has decided



	Part 4: 1992	and	latest style and format or the International standard may be adopted as Identical adoption.		to revise it in Latest style and Format.
20	IS 11658 : 1986	General requirement s and methods of tests of piezoelectric ceramic pressure transducers - Dynamic type	May be revised in latest style and format.	Indigenous	The Committee has decided to revise it in Latest style and Format.
21	IS 13674: Part 1: 1998	Dimensions of ferrite components for CTV: Part 1 cores for deflection coil	May be revised in latest style and format.	Indigenous	The committee has decided to revise it in Latest style and Format.
22	IS 13674 : Part 2 : 1993	Dimensions of ferrite components for CTV: Part 2 cores for line output transformers	May be revised in latest style and format.	Indigenous	The committee has decided to revise it in Latest style and Format.
23	IS 13674: Part 3: 1993	Dimensions of ferrite components for CTV:	May be revised in latest style and format.	Indigenous	The committee has decided to revise it in



		Part 3 cores for SMPS transformer			Latest style and Format.
24	IS 13898 : 1993	of coil formers of transformers and	No Change in Base Standard, hence the Indian Standard May be revised in latest style and format or the International standard may be adopted as Identical adoption.	Based on IEC 61797- 1:1996	The committee has decided to revise it in Latest style and Format.
25	IS 13901 : Part 2 : 1993	Dimensions of ferrite components for CTV: Part 2 cores for line output transformers	May be revised in latest style and format.	Indigenous	The Committee has decided to revise it in Latest style and Format.
26	IS 13909: 1993		Replaced by IEC 63093- 10:2022 May be superseded by latest International standard.	Based on IEC 61247:1995	The committee has agreed to Supersede it by IEC 63093-10:2022
27	IS 1885 : Part 41 : 1975	ical	Replaced by IEC 60050- 221:1990. May be superseded by latest International standard.	Based on IEC 60050- 901A:1975	The committee has agreed to Supersede it by IEC 60050-221:1990.
28	IS 6537 : 1972	Guide to the use of temperature control devices for crystal units	Already Superseded by IS/IEC 60122-4 : 2019 in portal	IEC 60314A:1971	No action Required
29	IS 8271 : Part 5	Quartz crystal units	5955-05:2010 https://ddpdos.gov.in/docu	Indigenous Based on JSS 50910-	The committee



	: Sec 15 : 1990	used for frequency control and selection - Specificatio n: Part 5 ser - Ies CX for oscillators: Sec 15 quartz crystal unit type CX - 15	ments/jss?page=58 May be superseded by latest Indian recommendation.	1971 issued by the Directorate of Standardization, Ministry of Defence, India	has agreed to Supersede it by JSS <u>5955-</u> <u>05:2010</u>
30	IS 8271 : Part 6 : Sec 5 : 1991	used for frequency control and selection specification : Part 8	JSS 50911 : 2020 (Second Revision) https://ddpdos.gov.in/documents/jss?page=14 May be superseded by latest Indian recommendation.	Indigenous Based on JSS 50911 (1971) issued by the Directorate of Standardization, Ministry of Defence, India	The committee has agreed to Supersede it by JSS 50911: 2020
31	IS 9819 : Part 1 : 1981	Specification for line output transformers (Eht) used with TV picture tubes: Part 1 general requirement s and tests	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.
32	IS 9819 : Part 2 : 1982	Specification for line output transformers used with TV picture tubes: Part ii type lot 1s for 470 mm, 510 mm,	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.



		590 mm and 610 mm TV picture tubes			
33	IS 9819 : Part 3 : 1982	Specification for line output transformers (Eht) used with TV picture tubes: Part 3 type lot 1h for 470 mm, 510 mm, 590 mm and 610 mm TV picture tubes	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.
34	IS 9819 : Part 4 : 1984	Specification for line output transformer (Eht) used with TV picture tubes: Part 4 type lot 2s for 310 mm and 340 mm TV picture tubes	May be revised in latest style and format.	Indigenous	The Committee has decided to archive.
35		n for line output	May be revised in latest style and format./No information found on internet	Assistance has been derived from STQC/CTVCOMP-II/86 'Specification for line output transformers used with 510 mm colour picture tubes', issued by STQC Directorate of Department of Electronics.	The Committee has decided to archive.
36	IS 9946 : 1981	Tests for magnetic properties of ferrite aerial rods	May be revised in latest style and format.	Indigenous	The Committee has decided to revise it in



					Latest style and Format.
37	IS/IEC 60556: 2016	Gyromagnet ic materials intended for application at microwave frequencies Measuring methods for properties	No action required/may be reaffirmed	Identical with IEC 60556:2006+AMD1:201 6 CSV	The committee has decided to reaffirm.
38	IS/QC 260100 : 1998	Transformer s and inductors for use in electronic and telecommun ication equipment: Part 2 Secal specification for signal transformers on the basis of capability approval procedure	May be revised in latest style and format	Identical with IEC 61248-2:1996 /QC 260100:1996	The Committee has decided to revise it in Latest style and Format.
39	IS/QC 260200 : 1999	1		Identical with IEC 61248-3:1996 / QC 260200 /1996	The Committee has decided to revise it in Latest style and Format.



40	IS/QC 680100 : 1995	_	May be revised in latest style and format	Identical with IEC 61178-2:1993 /QC 680100:1993	The Committee has decided to revise it in Latest style and Format.
41	IS/QC 680101 : 1995	Quartz crystal units - A specification in the IEC quality assessment system for electronic components (IECQ) - Blank detail specification - Capability approval	May be revised in latest style and format	Identical with IEC 61178-2-1/QC 680101:1993	The Committee has decided to revise it in Latest style and Format.
42	IS 6297 : Part 1 : 1971	Specificatio n for transformers and inductors (Power,	Feedback has been received from the manufacturers and laboratories that the test methods mentioned in this standard are not being used. This standard can be useful to researchers but not to the industry.	IS 6297 Part 1: 1971 may be updated to incorporate the test procedures listed in IEC 61007: 2020. A panel comprising three committee members may be constituted to revise the standard suitably.	The committee has decided to constitute a panel for review of this standard.



43	IS 9344 : 1979	of toroidal strip - Wound cores of magnetically	IS 9344: 1979 is essential and should be retained as a national standard to define the tolerances for dimensions Of Toroidal Strip-Wound Cores. However, the title of IS 9344 should be changed to "TOROIDAL STRIP-WOUND CORES MADE OF MAGNETICALLY SOFT MATERIAL" to fully represent the scope of the standard. It should also cover the protection of cores. Designation of alloys used for Toroidal Strip-Wound Cores (as indicated in IEC 60404-1) and new material such as nano-crystalline alloys may be covered in table 1 of IS 9344. In case of boxed core, protection should include filling the space between core and the case with a damping material to avoid change in electrical characteristics under shock	The standard may be revised in accordance with the remarks given. A panel comprising three committee members may be duly constituted in consultation with the Chairperson within to revise the standard suitably.	The committee has decided to constitute a panel for review of this standard.
44	IS 11014: Part 2: 1984	n for piezoelectric ceramic materials:	and vibration. The parameters as given in Table 1 of IS 11014 part needs to be modified based on application areas and IS 11014 part 3 and 4 also need to be bifurcated as per application areas to update the changes in the corresponding IS. Hence, input may be sought from manufacturers and laboratories to further update the contents.	The standard may be revised in accordance with the remarks given. A panel comprising three committee members may be duly constituted in consultation with the Chairperson to revise the standard suitably.	The committee has decided to constitute a panel for review of this standard.
45	IS 6297 : Part 2 : 1973	n for	Feedback has been received from the manufacturers that the test	The standard may be revised in accordance with the remarks given.	The committee has decided



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and	methods mentioned in the	A panel comprising three	
,inductors	standard are not being used	committee members may	a panel for
(Power,	by the industry although IS	be duly constituted in	review of
Audio, Pulse	14870 :2000 is being used.	consultation with the	this standard.
And	It may be aligned with IEC	Chairperson to revise the	
Switching)	61007 : 2020 as it contains	standard suitably.	
for	the advanced test methods		
electronic	that might be helpful for		
equipment:	industries. Alternately, this		
Part 2 power	standard may be withdrawn		
transformers	and the basic standard IS		
	14870 : 2000 may be		
	revised as per IEC 61007:		
	2020.		

Item 5 GUIDELINES ON RESEARCH PROJECTS

- (i) The committee noted the Guidelines on Research Projects.
- (ii) It was questioned that can BIS offer a Subsidized rate for testing in the Government approved labs/ERTLs for R & D activities in MSME.
- (iii) The Member Secretory informed that the TOR is limited to Standardization activities and he will communicate the same to the higher authorities.
- (iv) The Member Secretory requested to the member organizations to propose various R & D projects.

Item 6 INTERNATIONAL STANDARDIZATION ACTIVITIES

The committee noted the International committees, it Working Groups and link to the list of Standards given in Item 6 of Agenda.



Item 7 PROCESS REFORMS IN STANDARDIZATION ACTIVITY OF BIS

The Member Secretory informed the committee members about various process reforms in standardization activity of BIS such as the rolling annual action plan for the year 2023-24.

Item 8 DATE AND PLACE FOR THE NEXT MEETING

8.1 It was decided that the next meeting of the committee may be held tentatively in February 2024. The actual date will be decided in consultation with the Chairperson.

Item 9 ANY OTHER BUSINESS

9.1	There being no other business, the meeting ended with a hearty vote of thanks to the participants and the Chairperson.
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