

MINUTES

16th MEETING OF THE ENVIRONMENTAL TESTING PROCEDURES SECTIONAL COMMITTEE (LITD 01)

Mode: Virtual Meeting
Date: 18 July 2024 (Thursday)
Time: 1100 hrs
Venue: Virtual
<https://bismanak.webex.com/bismanak/j.php?MTID=m766202f6e0d96cf95c0f847b9b61b22b> Meeting number: 2516 109 2716
Password: 01@16 (01116 when dialing from a video system)

1. Chair: Shri U K Nandwani, Individual capacity 2. Member Secretary: Ms. Alismita Khag, BIS

Attendees:

Sl. No.	Member	Organisation
3.	Shri T Bhavanishankar	CPRI
4.	Smt Girija P	CPRI
5.	Shri Thillaikkarasu	DGQA
6.	Shri Sanjay Sharma	JAG, NFSG, CQAL Bangalore
7.	Shri M P Dubey	ELCINA
8.	Ms. D. Seemaduravasini	ECIL
9.	Mr. A. Nagarjuna	ECIL
10.	Mr. JAYASIMHA. P	URSC-ISRO
11.	Shri B Jobin	STQC
12.	Shri Ashish Chaudhary	STQC
13.	Shri Anand Kumar	UL India Pvt. Ltd.
14.	Shri P P Chaurasia	SQAO, DGQA
15.	Shri Anil Mehta	FICCI
16.	Shri Nagarajan	CDOT

ITEM 0: WELCOME ADDRESS

0.1 Member Secretary, on behalf of the Committee, welcomed the Chair and members to the meeting. She acknowledged the contribution of the members towards the activities of the committee. She requested all the members to use the BIS portal (www.bis.gov.in) for all matters related to the Committee as well as BIS. She also apprised the members regarding ascertaining their active participation in the Committee through attending regular meetings, commenting on the wide circulation drafts, voting documents and responding to all email communications.

0.2 Shri U K Nandwani, Chairperson LITD 01 also gave a warm welcome to the members to the meeting. He acknowledged the contribution of the members towards the activities of the committee. He requested members to attend the meeting for better interaction and coordination in the Committee. He also requested members to give constructive suggestion so that better Quality Standards could be formulated.

ITEM 1: FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

1.1 The minutes of the 15th meeting of the committee, held on 19 March 2024, were confirmed by the Committee.

ITEM 2: SCOPE AND COMPOSITION OF LITD 06

2.1 The Committee noted the scope and liaison of the Committee and reviewed the composition and decided the following:

- *Tata Advanced Systems Limited* - Shri R Thillaikarasu, CQAL to talk to representatives of this organization for ascertaining continued participation or revision of nomination

ITEM 3: DRAFT INDIAN STANDARDS FOR FINALIZATION

3.1 The Committee noted the information given at Item 3.1 of the Agenda.

3.2 The Committee appreciated the efforts put forward by Shri Mandar Sinnarkar, Vishay Components for providing his observations on the draft Indian Standards under wider circulation. The Committee discussed the comments provided by him in detail and after detailed deliberations decided the following:

Clause/ Subclause No	Paragraph No./ Figure No./ Table No.	Type of Com ment	Comments/Sugg estions along with Justification for the Proposed Change	Proposed Change/ Modified Wordings	Decision of Committee
5.5	1	Te	NOTE: It is possible that the test apparatus described in Annex A will not be suitable for these higher pressures	Here suitable test apparatus to be recommended.	IEC 60068-1:2013 mentions that this series of Standard contains general fundamental information on environmental testing procedures and severities of tests. Other methods of environmental testing, specific to the individual types of specimens, may be included in the relevant specifications.
5.5	1	Te	NOTE: It is possible that the test apparatus described in Annex A will not be suitable for these higher pressures	Here suitable test apparatus to be recommended.	Hence, in this case, in case the general test method is not found to be suitable for higher pressures, it needs to be accommodated adequately in the relevant specification based on the nature of the product tested and its corresponding technology. Hence, there is no need for modification in draft IS/IEC 60068-2-17:2023.
5.5	2	Te	Type B seals shall be tested both in a static condition and while being mechanically operated as required by the relevant specification	Here recommended apparatus and detail procedure to be mentioned.	The draft Standard clearly reflects this aspect to be mentioned by the relevant specification as it changes with the application/ technology. Hence, there is no need for modification in draft IS/IEC 60068-2-17:2023.
6.5	1	Te	The liquid shall be maintained at a temperature of 1 K to 5 K	Why temperature is mentioned in Kelvin when all	ISO 80000-5 'Quantities and Units – Part 5 - Thermodynamics' clearly defines the quantities and units used in thermodynamics and accommodates

			above the maximum ambient temperature of operation for the specimen under the test or at the temperature required in the relevant specification	other temperatures are mentioned in degree C	the use of both K and °C,(refer: https://www.iso.org/obp/ui/#iso:std:iso:80000:-5:ed-2:v1:en), hence, it was felt that no modification is required in the draft IS/IEC 60068-2-17:2023.
7.7	1	Te	Same as the comment for clause no. 6.5	Same as comment for clause no. 5	

3.3 The Committee decided to process the following draft Standards for finalization/ publication:

Sl. No.	Document No.	Title
1.	LITD/01/25091 IS/IEC 60068: Part 2: Sec 14: 2023	Environmental Testing -Part 2 Tests - Section 14 - Test N: Change of Temperature
2.	LITD/01/25092 IS/IEC 60068: Part 2: Sec 17: 2023	Environmental Testing -Part 2 Tests - Section 17 - Test Q: Sealing

ITEM 4: REVIEW OF STANDARDS

4.1. The Committee noted the information given at Item 4.1 of the Agenda and decided the following:

Sl. No.	Indian Standard	Base Standard	Status	Decision
1.	IS/IEC 60695-1-40:2013	IS/IEC 60695-1-40:2013	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
2.	IS/IEC 60721-2-4:2018	IS/IEC 60721-2-4:2018	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
3.	IS/IEC 60721-2-7:2018	IS/IEC 60721-2-7:2018	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
4.	IS/IEC 60721-3-0: 2020	IS/IEC 60721-3-0: 2020	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
5.	IS/IEC 60721-3-1:2018	IS/IEC 60721-3-1:2018	No Change	Decided to reaffirm as there is no change

				in the base IEC Standard.
6.	IS/IEC 60721-3-2:2018	IS/IEC 60721-3-2:2018	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
7.	IS/IEC 60721-3-3:2019	IS/IEC 60721-3-3:2019	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
8.	IS/IEC 60721-3-4:2019	IS/IEC 60721-3-4:2019	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
9.	IS/IEC 60721-3-5:1997	IS/IEC 60721-3-5:1997	No Change	Decided to reaffirm as there is no change in the base IEC Standard.
10.	IS/IEC 60721-3-7:2002	IS/IEC 60721-3-7:2002	No Change	Decided to reaffirm as there is no change in the base IEC Standard.

4.2 The Committee noted the information given at Item 4.2 of the agenda.

4.2.1 IEC 60068-2-11:2021 specifies the salt mist test only. It does not specify the fine mist test contained in IS 9000 (Part 22):1983 and IS 9002 (Part 12):1986. The requirements of fine mist test contained in IS 9000 (Part 22):1983 and IS 9002 (Part 12):1986 is based on JSS 55555.

4.2.2 Members were of the view that fine mist test may be applicable only for defense applications as this test is generally not performed on electronic/ electrical products. Hence, the JSS Standard specifies the fine mist test and the IEC does not. There was also a view that the fine mist test may be similar to that of the humidity test. It was also discussed that the IEC 60529 'Degrees of protection provided by enclosures may suffice for the fine mist test.

4.2.2 The Committee decided to discuss about the requirements and application of the fine mist test in Panel 1 so as to come to a fruitful conclusion. Panel 1 was requested to review the contents of the IEC 60068-2-11:2021, JSS 5555, IS 9000 (Part 11):1983, IS 9002 (Part 12): 1986, IS 9000 (Part 22): 1983, IS 9001 (Part 19):2006 and the related Standards like humidity test, ingress protection test etc. The Panel was also requested to study the need and applicability of the fine mist test for electronic and electrical products. It was decided that Panel 1 would provide their recommendation to the Committee in its next meeting.

ITEM 5: INTERNATIONAL STANDARDIZATION ACTIVITIES

5.1 The Committee noted the information given at Item 5 of the Agenda.

ITEM 6: DATE AND PLACE FOR THE NEXT MEETING

6.1 It was decided to host the next meeting of the Committee in virtual mode preferably in September 2024. The date of the meeting would be decided in consultation with the Chair.

ITEM 7: ANY OTHER BUSINESS

7.1 There being no other business, the meeting ended with a vote of thanks to the Chair and the members.