

MINUTES
17th MEETING OF ENVIRONMENTAL TESTING PROCEDURES
SECTIONAL COMMITTEE
(LITD 01)

Venue: CQAL Bangalore

Date: 26 November 2024

Time: 10:30 hrs

1. Chair: Shri U K Nandwani, Individual capacity

2. Member Secretary: Ms. Alismita Khag, BIS

Attendees:

Sl. No.	Member	Organisation
3.	Shri M P Dubey	ELCINA
4.	Shri Sudhakar Menda	CQAE
5.	Shri Tejas Mistri	ERDA
6.	Shri. A K Swamy	TATA ADVANCED SYSTEMS
7.	Shri. S K Harinath	BHEL
8.	Shri. V. Manjunath	UL INDIA PRIVATE LIMITED
9.	Shri.Vaidhyanathan	CPRI
10.	Shri. S N Raghavendra	TATA ADVANCED SYSTEMS
11.	Shri.Nagaraj .N.Nayak	CDOT
12.	Shri B. Jobin	STQC
13.	Shri Thillaikkarasu	DGQA
14.	P P Chaurasia	CQAL

ITEM 0: WELCOME ADDRESS

- 0.1** Member Secretary, on behalf of the Committee, welcomed the Chair and members to the meeting. She thanked CQAL, DGQA for hosting the Environmental Testing Procedures Sectional Committee LITD 01 meeting at CQAL, Bangalore. 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 of 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 suggestions so that better Quality Standards could be formulated.

ITEM 1: FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETING

- 1.1** The minutes of the 16th meeting of the committee held on 18 July 2024 were approved by the committee.

ITEM 2: SCOPE AND COMPOSITION OF LITD 01

- 2.1** The committee noted the information given at item 2.1 of the Agenda.
- 2.2** The committee considered the requests for nomination. However, as the candidates were not present during the meeting, the committee could not accept their request. As a standard operating procedure, it was decided that applicants applying for new membership would be invited to three consecutive meetings of the Sectional Committee as invitees. Based on the participation status and active contribution, they would be considered for membership.

ITEM 3: REVIEW OF STANDARDS

- 3.1.** The committee noted the information given in item 3.1 of the Agenda & decided on the following:

Sl. No	Standard No.	Title	Base Standard	Status of base Standard	Decision
.	IS 9000 (Part 22):1983	Basic Environmental Testing Procedures for electronic and electrical items - fine mist test	JSS 55555:1977 JSS 50101:1972	IEC 60068-211:2021	IEC 60068-2-11:2021 to be adopted. New Indian Standard to be formulated for fine mist test as it has commercial applications (avionics)

			IEC 60068-2-11:1964		and others) that would also be proposed at IEC for further formulation of International Standard.
	IS 9001 (Part 19): 2006	Guidance for environmental testing - salt mist test	–		
	IS 9000 (Part 11): 1983	Basic environmental testing procedures for electronic and electrical items - salt mist test	–		
	IS 9002 (Part 3): 1979	Specification for Equipment for environmental tests for electronic and electrical items: Part 3 humidity chamber	–	–	To be revised. Panel 1 to initiate formulation of the revised draft.
	IS 9002 (Part 6): 1980	Specification for equipment for environmental tests for electronic and electrical items: Part 6 constant relative humidity chamber (Non - Injection Type)	–	–	To be revised. Panel 1 to initiate formulation of the revised draft.
	IS 13736 (Part 2/Sec 1): 2020	Classification of Environmental Conditions Part 2 Environmental Conditions Appearing in Nature Section	IEC 60721-2-1 : 2013	No Change	To reaffirm as there is no change in the base Standard.

		1 Temperature and humidity			
	IS 13736 (Part 2/Sec 3) : 2020	Classification of Environmental Conditions Part 2 Environmental Conditions Appearing in Nature Section 3 Air pressure	IEC 60721-2-3 : 2013	No Change	To reaffirm as there is no change in the base Standard.
	IS 9000 (Part 4) : 2020	Environmental Testing Part 4 Tests - Test Cab: Damp Heat, Steady State	IEC 60068-2-78 : 2012	No Change	To reaffirm as there is no change in the base Standard.
	IS 9000 (Part 7/Sec 7) : 2020	Environmental Testing Part 7 Tests Section 7 Test Eh: Hammer tests	IEC 60068-2-75:2014	No Change	To reaffirm as there is no change in the base Standard.
	IS 9001 (Part 20) : 2010	Guidance for environmental testing: Part 20 calculation of uncertainty of conditions in climatic test chambers	IEC 60068-3-11: 2007	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60695-1-40 : 2013	Fire Hazard Testing Part 1 Guidance for assessing the fire hazard of electro technical products Section 40 Insulating Liquids	IEC 60695-1-40: 2013	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60695-1-40 : 2013	Fire Hazard Testing Part 1 Guidance for assessing the	IEC 60695-1-40 : 2013	No Change	To reaffirm as there is no change in the base Standard.

		fire hazard of electro technical products Section 40 Insulating Liquids			
	IS/IEC 60721-2-4 : 2018	Classification of Environmental Conditions Part 2 Environmental Conditions appearing in nature Section 4 Solar Radiation and Temperature	IEC 60721-2-4:2018	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60721-2-7) : 2018	Classification of Environmental Conditions Part 2 Environmental Conditions appearing in nature Section 7 Flora and Fauna	IEC 60721-2-7: 2018	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60721-3-0) : 2020	Classification of Environmental Conditions Part 3 Classification of groups of environmental parameters and their severities Section 0 Introduction	IEC 60721-3-0) : 2020	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60721-3-2) : 2018	Classification of Environmental Conditions Part 3 Classification	IEC 60721-3-2:2018	IEC 60721-3-2:2018/COR3:2024	To be discussed in Panel 1 regarding the following changes:

		of groups of environmental parameters and their severities Section 1 Transportation and Handling			Table 1 – Classification of climatic conditions Replace the existing row e) with the following new row: e) Low absolute humidity 1) g/m ³ 4 1 0,05 0,02 0,003
IS/IEC 60721-3-3) : 2019	Classification of Environmental Conditions Part 3 Classification of groups of environmental parameters and their severities Section 3 Stationary use at weather protected locations	IEC 60721-3-3) : 2019		No Change	To reaffirm as there is no change in the base Standard.
IS/IEC 60721-3-4 : 2019	Classification of Environmental Conditions Part 3 Classification of groups of environmental parameters and their severities Section 4 Stationary use at non- weather protected locations	IEC 60721-3-4 : 2019		IEC 60721-3-4:2019/COR1:2023	To be discussed in Panel 1 regarding the following changes: Table 1 – Classification of climatic conditions In the "Low absolute humidity" row, for climatic conditions 4K23, 4K24, 4K26 and 4K27, replace the existing values "0,2", "0,003", "0,1" and "0,003" with the new values "0,05", "0,004", "0,05" and "0,004", respectively, as shown:
IS/IEC 60721-	Classification of Environmental	IEC 60721-3-5: 1997		No Change	To reaffirm as there is no change in the base Standard.

	3-5) : 1997	Conditions Part 3 Classification of groups of environmental parameters and their severities Section 5 Ground Vehicle Installations			
	IS/IEC 60721- 3-7 : 2002	Classification of Environmental Conditions Part 3 Classification of groups of environmental parameters and their severities Section 7 Portable and non-stationary use	IEC 60721- 3-7: 1995	IEC 60721-3-7: 2026 (Underdevelopment)	To reaffirm till the publication of the revised standard
	IS/IEC 60068-1 : 2013	Environmental Testing Part 1 General and Guidance	IEC 60068- 1 : 2013	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60068- 2- 10:2018	Environmental testing - Part 2- 10: Tests - Test J and guidance: Mould growth	IEC 60068- 2-10:2018	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60695- 1-11 : 2014	Fire Hazard Testing Part 1 Guidance for assessing the fire hazard of electrotechnica l products Section 11 Fire Hazard Assessment	IEC 60695- 1-11 : 2014	No Change	To reaffirm as there is no change in the base Standard.
	IS/IEC 60695- 1-10 : 2016	Fire Hazard Testing Part 1 Guidance for assessing the	IEC 60695- 1-10 : 2016	No Change	To reaffirm as there is no change in the base Standard.

		fire hazard of electrotechnica l products Section 10 General Guidelines			
	IS/IEC 60068- 2- 17:1994	"Basic environmental testing procedures Part 2: Tests Section 17: Test Q: Sealing"	IEC 60068- 2-17:1994	The base standard has been revised by IEC 60068-2- 17:2023	To be discussed in Panel 1 regarding thefollowing changes: a) Survey of sealing tests has been deleted and the relevant content moved to a new Clause 4 General ; b) the Scope has been revised; c) the figures have been updated for clarification purposes; d) all non-SI units have been removed; e) the information to be given in the relevant specification has been revised. May be revised
	IS/IEC 60068- 2- 38:2021	"Environmenta l Testing Part 2 Tests Section 5 Test ZAD: Composite Temperature Humidity Cyclic test"	IEC 60068- 2-38:2021	No Change	To reaffirm as there is no change in the base Standard.

4. INTERNATIONAL STANDARDIZATION ACTIVITIES

4.1 Voting documents for comments:

4.1.1 The committee noted the information given at Item 4.1.1 of the Agenda. The Chair requested all members to review the voting documents & provide their valuable comments/observations through the BIS Portal consideration by IEC.

4.2 IEC Projects of High and Medium Priority

The committee noted the information given in item 4.2 of the Agenda. The following members were nominated for the respective project based on the interest shown by them during the meeting.

It was also decided to circulate the list of projects among all members of this Committee. Members who have not taken up any project yet, were requested to provide their nominations latest by 06 December 2024).

Sl. No.	Project	Title	WG	Stage	Expert nominated
1.	IEC 60068-2-1	Environmental testing - Part 2-1: Tests - Test A: Cold	MT 16	CDV	Nominations invited
2.	IEC 60068-2-2	Environmental testing - Part 2-2: Tests - Test B: Dry heat	MT 16	CDV	Shri. S K Harinath, BHEL
3.	IEC 60068-2-13	Environmental testing - Part 2-13: Tests - Test M: Low air pressure	MT 16	CD	Nominations invited
4.	IEC 60068-2-30	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	MT 16	CDV	Shri R Thillaikarasu, CQAL
5.	IEC 60068-2-78	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	MT 16	CDV	Shri. A K Swamy, TAS Shri. S N Raghavendra, TAS
6.	IEC 60068-3-11	Environmental testing - Part 3-11: Supporting documentation and guidance - Calculation of uncertainty of conditions in climatic test chambers	MT 18	CDV	Nominations invited
7.	IEC 60068-3-14	Environmental testing – Part 3-14: Supporting documentation and guidance – Developing a climatic sequential test	PT 60068-3-14	CDV	Shri Prafull P Chaurasia, CQAL
8.	IEC 60721-3-5	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -Section 5: Ground vehicle installations	MT 19	CDV	Nominations invited

9.	IEC 60721-3-7	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 7: Portable and non-stationary use	MT 19	CDV	Nominations invited
10.	IEC TS 60721-4-4	Classification of environmental conditions - Part 4-4: Guidance for the correlation and transformation of environmental condition classes of IEC 60721-3 to the environmental tests of IEC 60068 - Stationary use at non-weather protected locations	PT 60721-4-4	CD	Nominations invited

4.3 The committee noted the information given at item 4.3 of the Agenda.

ITEM 5: DATE AND PLACE FOR THE NEXT MEETING

5.1 It was decided to host the next meeting of the Committee in Hybrid mode. The date and place of the meeting will be decided in consultation with the Chair.

ITEM 6: ANY OTHER BUSINESS

6.1 There being no other business, the meeting ended with a vote of thanks to the Chair, CQAL for arranging the meeting and to the members of the committee.