

For BIS Use Only

BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Mode	Link
Fluids for Electrotechnical Applications Sectional Committee, ETD 03	24 th	Tuesday	22-10-2024	1030 h	Virtual	https://bismanak.webex.com/bismanak/j.php?MTID=m28c3c5d95c3b7b1b2e26b7fcfa953132

Item 0 GENERAL

0.1 Welcome and Opening Remarks by the Chairman

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The minutes of the 23rd meeting of Fluids for Electrotechnical Applications, Sectional Committee, ETD 03 held Physically on 16-05-2024 was circulated vide BISDG letter No. ETD 03/A-2.23 dated 03-06-2024.

No comments have been received.

The Committee may formally confirm the minutes.

Item 2 COMPOSITION OF FLUIDS FOR ELECTROTECHNICAL APPLICATIONS SECTIONAL COMMITTEE

2.1 The present composition of ETD 03 is given in **Annex 1**.

The committee may discuss.

2.2 **Instructions for the Effective Implementation of the Process Reforms Aimed at the Strengthening of the Standardization Ecosystem in the Country**

As per instruction received from DG BIS, absence from two consecutive and less than 50 percent of the meetings of the TC held in a year shall invite termination of the membership except in special circumstances acknowledged in the writing by the Divisional Council on the basis of the recommendation of the TC to this effect. A person whose membership is terminated on the ground of absence from the meetings or not responding to the Preliminary Draft standard shall not be eligible to be re-inducted as a member in any of the TCs of BIS for two years from the date of termination. The status participation of members in the previous two meetings of ETD 03 are given at **Annex 1**.

The Committee may review the participation.

2.3 Notified Vacancy of Academia for membership in ETD 03 Sectional Committee.

The Notified vacancy of Academia for membership in ETD 03 Sectional Committee is 2 Nos.

The committee may discuss..

Item 3 ANNUAL ACTION PLAN FOR STANDARDIZATION 2024-2025

The status of Annual Action Plan for Standardization for 2024-2025 is attached at **Annex 2**.

The committee may review.

Item 4 REVIEW OF PERFORMANCE OF ETD 03-FLUIDS FOR ELECTROTECHNICAL APPLICATIONS SECTIONAL COMMITTEE (2023-2024)

The performance of the sectional committee members is assessed based on active participation in the meetings, comments on P-drafts, WC drafts and comments based on review of IEC documents circulated.

The Committee may note.

Item 5 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl. No.	Item No.of last minutes	Subject	Decision	Action Taken as reported in last meeting	Decision taken in last meeting	Action Taken
3		Composition of the Committee	<p>The committee had requested Shri Rajaram Shinde to obtain the nomination details from the following organizations:</p> <ul style="list-style-type: none"> i) PSEB ii) GETCO iii) MSEB iv) GE T&D 	Shri Rajaram Shinde may update the committee.	Dr. Rajaram Shinde was not available during the meeting. The committee requested BIS to follow up with the organizations i.e. PSEB, GETCO, MSEB and GE T&D for obtaining the nominations. The contact details of the same would be provided by the committee.	Contact details awaited.
4	IS 16785: 2018/IEEE C57.155-2014		<p>Data on DGA for ester filled transformers to be obtained from GETCO, Tata Power, ERDA, & CPRI. Specific changes occurring due to change in average ambient temperature need to be identified to undertake revision, if necessary.</p> <p>Shri Rajaram Shinde, informed that IEC is working on consolidated DGA standard for all dielectric</p>	<p>IEC 60567:2023 has been published on 08/12/2023. The committee may note.</p> <p>Shri Naveen Jain may update the committee</p>	Shri Naveen Jain informed that DGA data for ester-filled transformers could not be obtained due to non- sharing of data by the utilities. It was informed by the member secretary that a research project on ‘DGA data for ester- based transformer fluids and conclude method for interpretation of DGA for fault identifications of Ester Fluid Filled Transformer’ was hosted on the BIS website and proposal submitted by NIT	See Item 9.

		<p>fluids.10/1192/CDV IEC 60567 ED5: Oil filled electrical equipment - Sampling of free gases and analysis of free and dissolved gases – Guidance Circulated vide email dated 13 Feb 2023 with last date</p> <p>The committee has requested Shri Naveen Jain from Cargill India Private Limited to obtain DGA data for ester-filled transformers from GETCO and Tata Power.</p>		<p>Mizoram has been approved for undertaking the project. It has been decided by the committee that the data on DGA for Ester Filled Transformers would be collected by NIT, Mizoram during their course of research since the proposal submitted by them on the R & D Project on the said subject has been approved. The committee decided to provide the necessary assistance to NIT Mizoram for the same.</p> <p>The committee noted the information regarding publication of IEC 60567:2023.</p>	
5	Revision of IS 335:2018	<p>The committee decided to review IEC 60296:2020 for a period of 3 months for revision of IS 335.</p> <p>A Proposal was received from Central Electricity Authority (CEA) to align IS 335: 2018 with IEC 60296: 2020 in-order to have uniformity in the Country and manufacturers exporting insulating oil do not face any</p>	<p>Inputs was sought from the utilities and the inputs received from the utilities are attached at <u>Annex 3.</u></p> <p>The committee may deliberate and decide.</p>	<p>It has been decided to constitute a working panel for the revision of IS 335:2018 consisting of the following members:</p> <p>a) Shri TCSM Gupta (APAR Industries Limited, Mumbai) - Convenor</p> <p>b) Dr. Kashinath T. Sutar (Bharat Petroleum Corporation Limited, Mumbai)</p>	<p>Shri T.C.S.M Gupta may update the committee reg. progress of work in the Panel.</p>

		<p>problem. The same was discussed during the Sectional Committee meeting dated 27/07/2023. However, Consensus couldn't be achieved during the meeting due to the difference in opinion amongst various stakeholders i.e. some were of the opinion that IS 335:2018 caters to all the requirements and revision was not required whereas some stakeholders were of the opinion to adopt IEC 60296 as an Indian Standard. It was therefore decided to obtain inputs from utilities in order to reach consensus as they are the end-users.</p>		<p><i>c)</i> Shri Naveen Jain (Cargill India Private Limited, Gurugram)</p> <p><i>d)</i> Shri Pankaj Chawla (Electrical Research and Development Association, Vadodara)</p> <p><i>e)</i> Shri Lalit Yadav (Hindustan Petroleum Corporation Limited, Mumbai)</p> <p><i>f)</i> Dr. Kavita Rai (Indian Oil Corporation Limited, New Delhi)</p> <p><i>g)</i> Shri Koushik Das (NTPC Limited, New Delhi)</p> <p><i>h)</i> Shri Gunjan Agarwal (Power Grid Corporation of India, Gurugram)</p> <p><i>i)</i> Shri Prabhakar P. Pathak (Savita Oil Technologies Limited, Mumbai)</p> <p>The scope of the working panel as decided by the committee is given below:</p> <p><i>1.</i> Preparation of the working draft in respect of the revision of</p>	
--	--	--	--	--	--

					<p>IS 335:2018 within 3 months.</p> <p>2. Examine and provide technical inputs on all the comments and queries received on IS 335:2018 to the committee.</p> <p>The committee decided to refer all the comments on IS 335:2018 as mentioned in Annex 3 of the agenda to the panel for examination and providing inputs on the same.</p>	
--	--	--	--	--	--	--

Item 6 OVERVIEW OF THE ACTIVITIES OF THE COMMITTEE

6.1 The Programme of Work under Fluids for Electrotechnical Applications Sectional Committee, ETD 03 is given in Annex 4.

The committee may note.

Item 7 REVIEW OF INDIAN STANDARDS

7.1 STANDARDS DUE FOR 5 YEARLY REVIEW

As per the guidelines, published Indian Standards should be reviewed after every five years. If no revision is called for, the standard(s) may be re-affirmed. Reaffirmation of the standard(s), however, does not prevent from these standard(s) being taken up for revision. In accordance with laid down procedures, all published Indian Standards should be reviewed by their respective Sectional Committees every five years after its publication. The standards due for reaffirmation are as follows:

Standards due for review are given in Annex 5.

The committee may review.

7.2 Review of Standards —Taking up Revision of pre-2000 standards

BIS has identified a list of standards which are very old (pre year 2000). Status of such Indian Standards under the purview of ETD 23 Sectional Committee on given at Annex 6 as per decision taken during the last meeting.

The committee may consider.

Item 8 DOCUMENTS UNDER P-DRAFT STAGE/PROPOSED FOR P-DRAFT CIRCULATION

Doc. No.	Title	IS No.	Doc Type	Status
26666	Methods for the determination of the lightning impulse breakdown voltage of insulating liquids (<i>First Revision</i>)	IS 11697: 1986	Revision	P-Draft
26659	Oxidative ageing of electrical insulating liquids by open beaker method method of test (<i>First Revision</i>)	IS 12177: 1987	Revision	P-Draft
26665	Gassing of insulating liquids under electrical stress and ionization (<i>First Revision</i>)	IS 12475: Part 1: 1988	Revision	P-Draft
		IS 12475 : Part 2 : 1988		
-	Method of test for carbontype analysis of mineral oils by infra - Red spectrophotometry	IS 13155 : 1991	Revision	Draft Ready

				for consideration of sectional committee.
--	--	--	--	---

The committee may decide..

Item 9 DOCUMENTS PROPOSED FOR WIDE CIRCULATION

IS No.	Title	Doc Type	Status
IS 9434: 2019	Oil-Filled Electrical Equipment — Sampling of Gases and Analysis of Free and Dissolved Gases — Guidance (<i>Second Revision</i>)	Adoption	Review done. Changes in base IEC 60567 (from 2019 to 2023 edition) affecting the standard is given in the ARP report enclosed at <u>Annex 7</u>

Item 10 NEW WORK ITEM PROPOSAL

The following NWIP has been allocated as R&D Project to NIT Mizoram (Prof. Saibal Chatterjee):

SI No.	Subject	Mode of Execution
1	Collection and Analysis of Dissolved Gas Analysis (DGA) Data for Ester based Transformer fluids and Conclude Method for Interpretation of DGA for Fault Identifications of Ester fluid'	Through Research and Development – Alloted to Prof. Saibal Chatterjee, NIT Mizoram on 25 June 2024

Initial interim report **Annex 8** as submitted by the Project Leader (PL) was circulated to ETD 03 members on 04 Sept till 12 Sept for review and comments. Comments received from ERDA **Annex 9** were shared with PL and revised report was sought.

The revised interim report **Annex 10** as submitted by the PL was circulated to ETD 03 members on 27 Sept to 04 Oct; Utilization Certificate (UC) **Annex 11** and Statement of Expenditure (SoE) **Annex 12** were circulated to ETD 03 members on 01 Oct 2024 to 06 Oct 2024. Comments received on the revised report are enclosed at **Annex 13**

The committee may discuss.

In addition to the above, the committee is requested to submit NWIP proposals that may be taken up for the formulation of Indian Standards in 2025-2026.

Item 11 INTERNATIONAL ACTIVITIES

11.1 India is a ‘P’ (Participating) Member in the corresponding IEC/TC 10. Close interaction is being maintained with this Technical Committees by way of voting, sending India’s comments on the documents received from IEC and participating in the various IEC TC 10 meetings by the experts nominated.

The publications and work program of **IEC TC 10** is given at **Annex 14**

The committee may note.

11.2 Designation of Indian Experts at IEC Projects:

- The Member Secretary, in consultation with the Chair of the SC and the HoD, and if felt necessary, with the entire SC, shall establish and indicate the Level of Interest in respect of each of the NWIPs or draft standards received from ISO/IEC in the IRD Portal.
- The next step will be to designate one or two members of the SC to represent BIS in respect of the standards of the Level H (High) and M(Medium). The designated experts will be the face and voice of BIS for that project at the ISO/IEC level.
- The designated expert shall have the responsibilities of sharing detailed comments on the Drafts/documents received from ISO/IEC, helping the SC in putting together the rationale for proposing NWIPs and firming up proposals for leadership positions and secretariats and briefing the SC on the deliberations at ISO/EC level.

The projects under IEC TC 10 currently at NP and CD stage are listed below:

New Projects NP & CD at IEC	Title of the Project	Proposed Level of Interest (High/Medium/Low)	TC/SC	WG/M T/PT	Whether Expert has been designated	Name of the Expert (If expert has been designated)	Name of the Organization	Type of Organization
10/1246/C D	IEC 63585 ED1: Interpretation of Dissolved Gas Analysis in natural and synthetic esters	High	TC 10	WG 45	Yes	I. Shri T.C.S.M Gupta	Apar Industries Ltd,	Industry
						II. Shri Saibal Chatterjee <i>(To be approved by the committee)</i>	NIT Mizoram	Academia
10/1218/C D	IEC 63359 ED1: Fluids for electrotechnical application: Specifications for the re-use of mixtures of gases alternative to SF6	High	TC 10	WG 41	No	—	—	—

Committee is required to complete the following review:

- 1) Establishment of level of interest on each project listed above
- 2) Committee members may propose nominations as designated experts to each of the projects indicated as High Priority.

The committee may discuss.

11.3 Details of WG/MT under IEC TC 10 is given at Annex 15

Committee members may consider nominating themselves as experts in the IEC WG/MT. The following role and responsibilities of experts may be noted:

- a) As a member registered in the working group from India (BIS), registered expert is required to share in advance each time he/she wishes to attend the meeting of the WG so that India's view point can be consolidated in the National Mirror Committee on the subject under discussion and the same shall then be presented by him/her in the Working Group.
- b) As a member registered in the working group from India (BIS), expert is also required to de-brief the members of the committee on return and submit a detailed report of their participation in the meeting containing the following:
 - i. Main topics and issues under discussion in the WG/MT
 - ii. Any specific project/standard(s) you are associated with
 - iii. Your specific contributions (please highlight) and any significant input provided between two meetings, or since you joined the WG, whichever is later
 - iv. Your vision on how your continued participation in these WG will help India's interest and development of standards at national level as well.

The committee may discuss.

11.4 As a 'P' member of above IEC/TC, India has an obligation to send voting on IEC drafts and comments wherever necessary. The details of voting/comments sent since 23th meeting of ETD 03 is attached at Annex 16

The committee may note.

11.5 Identification of IEC publications for harmonization

The Indian standards which were formulated/revised based on the IEC standards, are to be reviewed when the corresponding IEC standards are revised.

The committee may consider.

The list of published IEC Standards corresponding to IEC TC 10 is given at Annex 17.

11.6 Review of Nominated Experts in IEC TC 10

The nominated experts in IEC TC 10 are given in Annex 15.

The committee may review. The committee may also nominate experts for the Working Groups in which there are no Experts nominated from India.

Item 11 DATE AND PLACE FOR THE NEXT MEETING

The next meeting will be scheduled in the next quarter as per the Annual Action Plan for Standardization (2024-2025) in consultation with the Chairman. However, meetings in addition to that proposed in the meeting calendar of APS (2024-2025) may also be organised in consultation with the chair as per the exigency of work.

Item 13 ANY OTHER BUSINESS