

BUREAU OF INDIAN STANDARDS**MINUTES**

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
ETD 39 - Fuses Sectional Committee	19th	Wednesday	16 th October 2024	10:30 AM	Hybrid Mode

CHAIRMAN: Mr. Manohar Singh Takkher

MEMBER SECRETARY: Ms. Ankita Tripathi

The list of participants is enclosed at **Annexure A**.

Item 0 WELCOME AND OPENING REMARKS BY THE CHAIRMAN

The Member Secretary welcomed Mr. Manohar Singh Takkher as the new Chairman of the ETD 39 Sectional Committee and expressed confidence that, under his capable leadership and visionary guidance, the committee will successfully achieve its objectives.

Mr. Manohar Singh Takkher welcomed all the members for the 19th meeting of the ETD 39 - Fuses Sectional Committee. He appreciated the progress of work undertaken by the committee. He urged all members to actively participate in the committee's work and thoroughly review the documents. He emphasized the importance of careful and detailed evaluations to ensure the highest quality of standards and effective implementation in the industry.

The meeting started with the brief round of introduction from all the members.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The committee confirmed the minutes of the last meeting (18th meeting) of the Fuses Sectional Committee, ETD 39 held online on 9th May 2024.

Item 2 COMPOSITION OF THE SECTIONAL COMMITTEE

2.1 The committee noted the present composition of the Fuses Sectional Committee, ETD 39 as given at Annexure-1 of the agenda.

2.2 The Chairman requested the members to identify other organizations/R and D institutes/Academia who could positively contribute towards the standardization work in the committee and inform BIS so that they can be approached for cooption in the committee

2.3 Shri Neeraj Sinha from Havells India had suggested to coopt IIT Bombay in the Committee. It was decided to send a formal letter for cooption to IIT Bombay. Shri Neeraj Sinha was asked to coordinate for the nominations.

Item 3 ACTION ARISING OUT OF PREVIOUS MEETING

SI. No.	Item/ Subject	Decision Taken in the last meeting	Action/ Remarks	Decision Taken
1.	Fresh Nominations	<p>Fresh Nominations to be requested from the following organizations:</p> <ul style="list-style-type: none"> i. CPRI ii. CEA iii. Engineers India Ltd. iv. IEEMA. v. Novateur Electricals and Digital Systems Private Limited, Chennai and Legrand India Private Ltd. (being the same organizations, to send revised nominations as a single entity) vi. Western India Switchgears Manufacturers Association. 	<p>Updated Nominations received from CPRI, CEA, IEEMA</p> <p>Updated Nominations pending from the following organizations:</p> <ul style="list-style-type: none"> i. Engineers India Ltd. ii. Novateur Electricals and Digital Systems Private Limited, Chennai iii. Western India Switchgears Manufacturers Association. 	<ul style="list-style-type: none"> i. The committee again reminded Novateur Electricals and Digital Systems Private Limited, Chennai and Legrand India Private Ltd, being the same organizations, to send revised nominations as a single entity within a week. ii. The committee again reminded Mr. Shashin Shah to send cooption request along with the organization profile of his new organization in prescribed format. Further, he was asked to follow up with Western India Switchgears Manufacturers Association to send updated Nominations. ii. The committee discussed that Engineers India Ltd is an important organization relevant to the field, and recommended to again follow up with the organization informing the details of their Non-participation in the meeting and updation of

				Nominations, if required.
2.	Co-options	<p>i. Mr. Shashin Shah to follow up for nominations from M/s Eswari Electricals Private Limited, Chennai and Fuse Gear Electric Ltd</p> <p>ii. The committee also decided to send cooption request to the laboratory ERDA, Vadodara</p> <p>iii. The committee decided to send cooption request to the following electrical utilities:</p> <p>a) Torrent Power</p> <p>b) Tata power</p> <p>c) CESC, Kolkata</p> <p>d) BEST Mumbai</p>	<p>i. Nomination received ERDA</p> <p>ii. Nominations awaited from M/s Eswari Electricals Private Limited, Chennai and Fuse Gear Electric Ltd</p> <p>iii. Nominations awaited from utilities</p>	The Committee noted the same and recommended to follow up for nomination from the Utilities taking help from CEA.
3	Review of IS 9385 : Part 4 : 1983 & IS 9385 : Part 5 : 1983.	<p>It was discussed to reconstitute Panel 1 as follows:</p> <p>i. Shri P. Jayakumar (Eaton Power Quality Private Limited) (Convener)</p> <p>ii. Representative from CPRI(to be sought from CPRI)</p> <p>iii. Representative from Merson India Pvt Ltd. (Shri Jaykumar to follow up for nominations to the panel)</p> <p>iv. Mr. Nawab Zaidi, Shivshakti Switchgears</p>	<p>Meeting of the panel held on 7th October 2024</p> <p>Minutes of the meeting/recommendations of the Panel enclosed at ANNEXURE-6</p>	<p>i. The committee considered the recommendations of Panel 1 on review of IS 9385 : Part 5 : 1983 and IS 9385 : Part 4 : 1983 as given Annexure 6 of the Agenda.</p> <p>ii. The committee agreed with the recommendation Panel 1 on review of IS 9385(Part 5): 1983” Specification for high voltage fuses: Part 5 types and dimensions of fuse - Links for current - limiting fuses” that the updated types and dimensions of fuse-links</p>

		<p>v. Shri Sudhna Marathe, Seimens Limited</p> <p>The committee strictly advised the panel to review the documents as per its scope and submit its recommendations with 2 months.</p>		<p>for current limiting fuses has already been included as Annex D in the revised standard IS 9385 (Part 1) : 2018/IEC 60282-1</p> <p>In view of the above, the committee recommended to withdraw IS 9385 : Part 5 : 1983</p> <p>iii. The committee agreed with the recommendations of Panel 1 on Review of IS 9385 : Part 4 : 1983” Specification for High Voltage Fuses Part 4 Determination of Short-Circuit Power Factor for Testing High Voltage Fuses” that the three methods and calculations for Measurement of short-circuit power factor given in the standard are valid and implementable as on date. The standard does not require updation being Test Method/ Calculation standard, but may be required for reference by the user.</p> <p>Taking this into consideration, the committee recommended to archive the standard as on date.</p>
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4	Review of IS 2086 : 1993 & IS 9926 : 1981,	<p>It was discussed to reconstitute the Panel 2 as follows:</p> <ul style="list-style-type: none"> i. Shri Subhanva Marathe, Simens Limited (Convener) ii. Shri Subhasish, Schneider Electric India Private Limited iii. Mr. Pankaj Solanki, Novateur Electrical and Digital Systems Pvt. Ltd. iv. Shri P. Jayakumar (Eaton Power Quality Private Limited) v. Shri Nawab Zaidi (Shivshakti Switchgears Private Limited) vi. Mr. Neeraj Sinha, Havells vii. Representative from CPRI(to be sought from CPRI) <p>The committee strictly advised the panel to review the documents as per its scope and submit its recommendations within 2 months.</p>	<p>Meeting of the Panel scheduled on 15th October 2024.</p>	<p>The member secretary informed the committee that the meeting Panel 2 on Low voltage fuses to Review of IS 2086 : 1993 & IS 9926 : 1981 was held on 15th October 2024.</p> <p>The Panel recommended to revise IS 2086” Carriers and bases in rewirable type electric fuses for voltages up to 650 v - Specification ” as per the latest practices and incorporating the required safety requirements, as the product is being used considerably in the country.</p> <p>The committee considered the recommendations of Panel 2 and requested Sh. Neeraj Sinha from Havells India to provide the draft of the revised standard within 2 weeks for further discussion in the Panel 2.</p> <p>Panel 2 to discuss and put up its recommendations in the next sectional committee meeting.</p> <p>Further, Panel 2 informed the committee that its working on review of IS 9926 ‘Specification for fuse - Wire used in rewirable type electric fuses up to 650 volts, and will put up its finding in the next meeting of the sectional committee.</p>
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5	Comments on Finalized documents	<p>The member secretary informed the committee that the following documents were wide circulated and no comments were received on the same. Accordingly, the documents were finalized for printing by the committee in its last meeting.</p> <p>However, during the final approval stage of the Division Council, comments have been received from Sh. Ashok Kumar Rajput, Member (Power Systems), Central Electricity Authority and Chairman, ETDC on the documents.</p> <ul style="list-style-type: none"> i. Doc 18460: (IS 9385 (Part 1) : 2024: IEC 60282-1 : 2020) ‘High-Voltage fuses — Part 1: Current-Limiting fuses’ ii. Doc. 21264: IS 9402 : 2024: High-Voltage Fuses for the External Protection of Shunt Capacitors(First Revision) iii. Doc 21267: IS 10624 : 2024/IEC 60644 : 2009 + AMD 1 : 2019 High-Voltage Fuse-Links for Motor Circuit Applications — Specification (First Revision) iv. Doc. 21270 : IS 13703 (Part 4) : 2024/ IEC 60269-4 : 2009 : Low-Voltage Fuses PART 4 Fuse-Links for the Protection of Semiconductor Devices — Supplementary Requirements (First Revision) 	<p>Meeting of Panel on High Voltage Fuses and Panel on Low Voltage Fuses under ETD 39 Fuses Sectional Committee held on 26.07.2024.</p> <p>The recommendations of the Panel enclosed at ANNEXURE 7</p> <p>Based on the recommendations of the Panel, approval of the Division Council received for publication of the standards.</p> <p>The standards have been sent for printing</p> <p>The committee may kindly note.</p>	The committee noted the information.
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		The committee recommended to discuss the comments for resolution in a joint meeting of Panel 1 and Panel 2. The comments to be circulated to the members of Panel 1 and Panel 2 in advance for examination.		
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Item 4 PRESENT POSITION OF WORK

The committee noted the present programme of work under ETD 39-Fuses Sectional Committee as given in Annexure 2 of the agenda.

Item 5 APPROVAL OF DRAFT INDIAN STANDARDS FOR FINALIZATION

The committee noted the information on standards finalized and sent for printing.

Item 6 NEW SUBJECTS TAKEN UP FOR STANDARDIZATION

i. The member secretary requested the committee members to identify new work items to be taken up for standardization in the future programme of work of ETD 39.

ii. New Subjects taken up under Annual Programme of standardization(APS 2024-25)

The Member secretary informed that the Indian standard on the subject already exist as IS/IEC 60269-3 : 2010 “Low-Voltage Fuses Part 3 Supplementary Requirements for Fuses for Use by Unskilled Persons (Fuses Mainly for Household and Similar Applications) — Examples of Standardized Systems of Fuses A to F”. The standard was not visible in the Programme of work of ETD 39 due to some technical error in the BIS portal. However, the same has now been rectified.

In view of the above, the committee recommended that taking up standardization as per this new work item proposal is now not required.

ITEM 7 INTERNATIONAL ACTIVITIES

7.1 The committee noted the information as given in Item 7.1 of the agenda.

7.2 The committee noted the programme of work of IEC TC 32 as enclosed as annexure-3 of the agenda.

7.3 The committee note the details of voting for IEC TC 32 since last meeting as given in Annexure-4 of the agenda.

7.4 The committee noted the new initiatives being taken by BIS for enhancing our participation in the international standardization space as given in Item 7.4 of the agenda.

The committee members were informed that we need to focus now on participating in the making of ISO/IEC standards on the basis of the Level of Interest established in respect of a NWIP or draft standard. The next step would be to designate one or two members of the Sectional Committee to represent BIS for standards categorized as Level H (High) and M (Medium). These designated experts will act as face and voice of BIS for the project at the ISO/IEC level.

The committee finalized the following sub-sector classification of the ETD 39 programme of work.

Proposed Sectors:

Sl. No.	Sub-Sector
1	High Voltage Fuses
2	Low Voltage Fuses
3	Miniature Fuses

The committee finalized the following level of interest on IEC TC 32, SC 32A and SC 32B current documents under development. Further, based on expertise and interest expressed by the members, the committee designated the following experts against respective documents and corresponding IEC working groups:

S. No	Project Ref No	Project	Level of Interest	IEC TC	Working Group	Existing Experts	Designated Experts
1	32A/360/CD	IEC TR 62655 ED2: Tutorial and application guide for high-voltage fuses	High	IEC SC 32A	MT 6	No	i. Shri P Jayakumar, Eaton Power Quality Private Limited, New Delhi
2	32B/762/NP	PNW 32B-762 ED1 Low-voltage fuses - Part 201: Supplementary and modified requirements and tests for fuses utilization class gG	High	IEC SC 32 B	WG 15	No	i. Shri Nawab Haider Zaidi, Shivshakti Switchgears Private Limited. ii. Shri Vijay Wanwe Siemens Limited, Mumbai iii. Shri Neeraj Sinha, Havells India
3	32B/760/CD	IEC 60269-100 ED1: Low-Voltage Fuses. Part 100: General requirements and tests	High	IEC SC 32 B	WG 15	No	i. Shri Nawab Haider Zaidi, Shivshakti Switchgears Private Limited. ii. Shri Vijay Wanwe Siemens Limited, Mumbai

								iii. Shri Neeraj Sinha, Havells India
4	32B/741/NP	ISO 24968-1 ED1 Fuse-links for road vehicles - Fuse-links with a rated voltage up to 1000V AC and 1500V DC	High	IEC SC 32 B		JWG 16	No	i. Shri Nawab Haider Zaidi, Shivshakti Switchgears Private Limited. ii. Shri P Jayakumar, Eaton Power Quality Private Limited, New Delhi
5	32/265/CD	IEC 63523 ED1 High-Voltage DC Fuses	High	IEC TC 32		WG1	No	i. Shri P Jayakumar, Eaton Power Quality Private Limited, New Delhi
6	32B/742/NP	IEC 63582 ED1 LOW-VOLTAGE FUSES: Product data and properties for information exchange	Medium	IEC TC 32B		PT 63582	No	i. Shri Neeraj Sinha, Havells India ii. Shri Vijay Wanwe, Siemens Limited, Mumbai

ITEM 8 DATE AND PLACE FOR THE NEXT MEETING

The committee noted the annual technical committee meeting schedule.

The Chairperson suggested that the next meeting of the committee may be organized in physical mode. The committee agreed to the same

Item 9 ANY OTHER BUSINESS

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

Annexure 1
List of Participants-ETD 39 - 19th TC Meeting of Fuses Sectional Committee

Sl. No.	Orgnization	Member Name
1.	Central Power Research Institute, Bhopal	Shri Manohar Singh Takkher <i>(Chairperson)</i>
2.	Central Power Research Institute, Bengaluru	Shri Diptiranjana Sahoo
3.	Central Power Research Institute, Bengaluru	Shri Himangshuu Roy
4.	Eaton Power Quality Private Limited, New Delhi	Shri P Jayakumar
5.	Electrical Research and Development Association, Vadodara	Shri Munaf Y Patel
6.	Electrical Research and Development Association, Vadodara	Shri Y.I. Pathan
7.	Havells India Limited, Noida	Ms. Sandhya Arora
8.	Havells India Limited, Noida	Shri Neeraj Sinha
9.	Novateur Electrical And Digital Systems Private Limited, Chennai	Shri Rajan Parab
10.	RITES Limited, Gurugram	Shri Rakesh Gupta
11.	Shivshakti Switchgears Private Limited	Shri Nawab Haider Zaidi
12.	Schneider Electric India Private Limited, New Delhi	Shri Subhasish Nath
13.	Siemens Limited, Mumbai	Shri Vijay Wanwe
14.	Tata Consulting Engineers Limited, Navi Mumbai	Shri P.K.Arunkumar
15.	Tata Consulting Engineers Limited, Navi Mumbai	Shri Sangita Padegaonkar
16.	Western India Switchgear Manufacturers Association, Mumbai	Shri Shashin N Shah
17.	Novateur Electrical And Digital Systems Private Limited, Chennai	Shri Pankaj Solanki