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BUREAU OF INDIAN STANDARDS

MINUTES

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
High Voltage Switchgear and Controlgear Sectional Committee, ETD 08	30 th	Tuesday	8 Oct 2024	11:00h	Virtual Meeting

CHAIRMAN: Shri M. S. Takkher

MEMBER SECRETARY: Shri Ashok Kumar

Members Present:

S.No	Organization	Name	Email
1.	Central Power Research Institute, Bengaluru	Mr. M. S. Takkher	takkher@cpri.in
2.	BSES Yamuna Power Limited, New Delhi	Mr. Abhishek Harsh	abhishek.harsh@relianceada.com
3.	Calcutta Electric Supply Corporation Limited	Mr. Sujit Kumar Pathak Mr. Koushik Chowdhury	sujit.pathak@rpsg.in koushik.chowdhury@rpsg.in
4.	Central Electricity Authority, New Delhi	Mr. Pankaj Kumar Verma	kvermap@nic.in
5.	Central Power Research Institute, Bhopal	Mr. Yugal Agarwal	yugal@cpri.in
6.	Electrical Research and Development Association	Mr. Tirtha Vishwakarma Mr. Y.I. Pathan	tirtha.vishwakarma@erda.org yi.pathan@erda.org
7.	GE India Industrial Private Limited	Mr. Madhu Sudan Mr. Abir Kr Majumdar	sudan.madhu@ge.com abir.majumdar.ge@gmail.com
8.	Gujarat Energy Transmission Corporation Limited	Ms. Hardika Bhatt	deengg7.getco@gebmail.com
9.	Indian Electrical and Electronics Manufacturers Association	Mr. Navdeep Singh	navdeep.singh@ieema.org
10.	Larsen and Toubro Limited	Mr. A. Kalyanasundaram Mr. Pravin K Chhaya	aksm@lntec.com pravin.chhaya@lntebg.com
11.	Ministry of Heavy Industries and Public Enterprises, Department of Heavy Industry, New Delhi	Mr. Tushar Shrivastav	divhei-dhi@gov.in
12.	Power Grid Corporation of India	Mr. R P S Rana	rpsrana@powergrid.in
13.	Schneider Electric India Private Limited	Mr. Nandeesh Kumar Mr. Mainak Roy Mr. Devraj Manna	nandeesh.kumar@mtech.christuni versity.in mainak.sinharoy@se.com devraj.manna@se.com
14.	Steel Authority of India Limited (SAIL)	Mr. Gulshan Kumar	gulshank2001@gmail.com
15.	In Personal	Mr. V.Ramesh	vramesh1964@outlook.com
16.	Bureau of Indian Standards New Delhi (ETD)	Mr. Ashok Kumae (Member Secretary)	eetd@bis.gov.in



Item 0 GENERAL

0.1 WELCOME & OPENING REMARKS BY THE CHAIRMAN

Shri Ashok Kumar, Member Secretary of ETD 07, welcomed everyone and introduced Shri M. S. Takkher as the new chairperson of the committee. Shri M. S. Takkher thanked and welcomed all participants. He emphasized the committee's critical importance and urged members to engage in thorough but concise discussions on each agenda point to reach meaningful conclusions and resolve issues.

Shri M. S. Takkher extended his gratitude to Shri M K Wadhvani, the former chairperson of the ETD 08 committee, for his substantial contributions and effective leadership. He also commended the efforts of various working groups actively contributing to the standardization process and expressed hope for productive discussions on all agenda points.

0.2 Member Secretary welcomed the members to the meeting and briefed the members regarding various agenda points which required detailed discussions and solicited the co-operation of the members for completing the agenda in time.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The committee formally confirmed the minutes of the 29th meeting of High Voltage Switchgear and Controlgear Sectional Committee, ETD 08, held on 16 May 2024 virtually.

Item 2 COMPOSITION OF HIGH VOLTAGE SWITCHGEAR AND CONTROLGEAR SECTIONAL COMMITTEE, ETD 08

2.1 The present composition of High Voltage Switchgear and Controlgear Sectional Committee, ETD 08 as given at Annex 1 of the agenda was reviewed.

2.2 The committee noted the information given in the agenda regarding the Co-option request for ETD 08 committee.

2.3 Sector wise Classification of ETD 08 Committee

The committee discussed the sector-wise classification of the ETD 08 Sectional Committee as outlined in Annex 2 of the agenda. It was decided to revise the sector-wise classification based on the program of work of relevant IEC committees and voltage levels (Medium and High Voltage). The updated classification will be shared with committee members for their nominations.

Item 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl. No.	Subject	Item of previous minutes	Decision Taken	Action
1	GIS Switchgear for voltage levels \leq 52 kV	The committee discussed the letter received from CEA for preparation of the	Email sent to CEA on July 14, 2024 to provide the	The committee discussed the subject and decided to drop the NWIP as the



		<p>Indian Standard for Gas Insulated Substation (GIS)/Hybrid GIS.</p> <p>The committee members informed that the present requirements of GIS/Hybrid GIS are already present in IS/IEC 62271-200 Hence, there is no need to prepare a new standard on the subject.</p> <p>The clarification will be sought from CEA representatives on the following points:</p> <p>1) The international standards referred to by utilities and manufacturers for GIS/Hybrid GIS.</p> <p>2) The specific task requirements as per the CEA letter are unclear. Is there a need for an application guideline for GIS/Hybrid GIS, or the preparation of a new standard to cover GIS/Hybrid GIS?</p>	<p>Clarification on the NWIP.</p> <p><i>Reply awaited from CEA.</i></p>	<p>present requirements of GIS/Hybrid GIS are already present in IS/IEC 62271-200.</p> <p>The subject will be discussed upon receipt of clarification from CEA representatives on the following points:</p> <p>1) The international standards referred to by utilities and manufacturers for GIS/Hybrid GIS.</p> <p>2) The specific task requirements as per the CEA letter are unclear. Is there a need for an application guideline for GIS/Hybrid GIS, or the preparation of a new standard to cover GIS/Hybrid GIS?</p>
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The committee noted the information given in the agenda.

Item 4 PRESENT POSITION OF WORK

4.1 The committee noted the information given in the agenda

4.1 DRAFTS UNDER PRINT

SI. No.	IS/IEC No.	Status
1.	Doc ETD 08 (23461) Specification for interconnecting bus - Bars for ac voltage above 1 kV up to and including 36 kV (First Revision)	The document is under advance stage of printing.



4.2 DRAFTS FINALIZED FOR PRINTING

The committee finalized the following documents for printing in case no comments are received during their wide circulation period.

SI No.	IS No.	TITLE	Eqv. IEC	Action reported in the agenda
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4.3 DRAFTS APPROVED FOR WIDE CIRCULATION

SI No.	Subject/IS/IEC no.	Action reported in the last meeting	Action Reported in the agenda	Decision Taken
1.	Revision of IS/IEC 62271- 207 : 2012 Doc ETD 08 (25993) High-voltage switchgear and controlgear Part 207: Seismic qualification for gas-insulated switchgear assemblies metal enclosed and solid-insulation enclosed switchgear for rated voltages above 1 kV (<i>Second Revision</i>)	The committee decided to circulate the latest IEC as Preliminary draft for 30 days. In case no comments are received during the P-draft Stage, the draft will be send in wide circulation for 60 days.	The draft document was circulated as a preliminary draft on 26th June 2024 for a one-month period. Since no comments were received during the P-draft stage, it was wide circulated on 9 th August 2024. Last date of comments - 26 October 2024	The committee decided to finalize the documents for printing, in case no comments are received during the wide circulation Stage.
2.	Revision of IS/IEC 62271- 202 : 2014 Doc ETD 08 (25995) High-voltage switchgear and controlgear Part 202: AC prefabricated substations for rated voltages			



above 1 kV and up to and including 52 kV First Revision			
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4.4 P-DRAFTS

SI No.	Subject/IS/IEC no.	Action reported in the last meeting	Action reported in the agenda	Decision Taken
1.	Draft on Code of Practice for on-site Diagnostic Tests and Condition Monitoring of High Voltage Substation Equipment	<p>1. Members from Schneider electric Ltd and NPCIL are requested to re-submit the comments with proposed changes.</p> <p>2. Representatives from POWERGRID and ERDA are requested to provide updated nominations for ETD 08/P1.</p> <p>3. The consolidated comments will be circulated among the ETD 08/P1 members for their consideration.</p> <p>4. The ETD 08/P1 meeting will be scheduled in June to finalize the draft standard for wide circulation.</p>	<p>Representatives from NPCIL re-submitted the comments as per BIS commenting format.</p> <p>POWERGRID submitted the comments on the draft standard on Aug 12, 2024.</p> <p>ETD 08/P1 meeting held on Aug 12, 2024 and comments received from NPCIL discussed during the meeting. The updated draft circulated among the Panel 1 members.</p> <p>Following decisions were taken during the meeting:</p> <p>1. Siemens to add table/column to cover the additional On-line condition Monitoring Parameter for CB which were removed (strikethrough in the circulated draft).</p>	<p>The updated draft, including the annex on GIS, was received from Siemens Limited on October 3, 2024. It has been decided to schedule the ETD 08/P-1 meeting to discuss this updated draft, along with the comments received from POWERGRID and Schneider Electric.</p>



			<p>2. NPCIL to share the document for Condition monitoring of GIS. Siemens to incorporate the Condition monitoring of GIS in the draft as per the document shared by NPCIL.</p> <p>3. The comments received from POWERGRID and Schneider Electric will be discussed in the next Panel meeting.</p> <p><i>Members from Siemens are requested to kindly update the committee on incorporation of condition monitoring of GIS in the draft standard.</i></p>	
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Item 5 Review of Published Standards for Revision/Reaffirmation

5.1 The committee noted the information given in the agenda.

Item 6 INTERNATIONAL ACTIVITIES

6.1 The committee reviewed the proposal from Mr. Madhu Sudan of GE India Industrial Private Ltd. regarding participation in the upcoming meetings of IEC TC 17, SC 17A, and SC 17C. As no additional proposals were received from other committee members, the committee approved Mr. Madhu Sudan's participation in the plenary meetings of IEC TC 17 and its sub-committees.

6.2 Review of the Projects under IEC TC 17, SC 17A and SC 17C and designation of experts

The committee reviewed the ongoing projects within IEC TC 17, SC 17A, and SC 17C, and established the following priorities for each project:



SI. No.	Project No.	Title of the Project	WG/MT/PT	Level of Interest (High/Medium/Low)	Designated Experts
1	17/1163/CD	IEC TR 62271-321 ED1: High voltage switchgear and controlgear data and properties for information exchange - Part 1: Catalogue data	IEC TC 17	Low (The standard has not been adopted, and there are currently no available experts within the committee.)	-
2	17/1159/CD	IEC 62271-3 ED3: High-voltage switchgear and controlgear - Part 3: Digital interfaces based on IEC 61850	IEC TC 17/ MT 2	Medium	POWERGRID to nominate experts for these projects. IEEMA to reach out to relevant expertise for these IEC projects.
3	17/1156/CD	IEC TR 62271-322 ED1: High-voltage switchgear and controlgear - Part 322: Digital technologies – application and guidance	IEC TC 17/MT 9	Medium	
4	17C/943/CD	IEC 62271-213/AMD1 ED1: Amendment 1 - High-voltage switchgear and controlgear - Part 213: Voltage detecting and indicating system	IEC SC 17C/WG 35	Priority Low (The standard has not been adopted, and there are currently no available experts within the committee.)	-
5	17C/944/CD	IEC 62271-215/AMD1 ED1: Amendment 1 - High-voltage switchgear and controlgear - Part 215: Phase comparator used with VDIS	IEC SC 17C/JWG 34		-
6	17C/934/CD	IEC 62271-205 ED2: High-voltage switchgear and controlgear - Part 205: Compact switchgear assemblies, mobile and prefabricated substations for rated voltage above 52 kV	IEC SC 17C/MT 44	Medium	POWERGRID to nominate experts for the project.

Item 8 IDENTIFICATION OF RESEARCH & DEVELOPMENT PROJECTS FOR FORMULATION AND REVIEW OF STANDARDS

8.1 The committee members are requested to kindly go through the RnD guideline attached with the agenda and propose the RnD projects pertaining to the scope of ETD 08 committee.

Item 9 FUTURE PLANS AND STRATEGIES

The committee noted the information given in the agenda.

Item 9 DATE AND PLACE OF NEXT MEETING



It was decided to hold the next meeting in hybrid mode tentatively in the month of Feb 2025 in New Delhi (BIS Office). The final date and place of the meeting shall be decided in consultation with the Chair of the committee.

Item 10 ANY OTHER BUSINESS

The meeting ended with a vote of thanks to the Chair.