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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	29 th	Thursday	16 May 2024	11:00h	Virtual Meeting

CHAIRMAN: Shri M K Wadhvani

MEMBER SECRETARY: Shri Ashok Kumar

Members Present:

S.No	Organization	Name	Email
1.	Central Power Research Institute, Bengaluru	Mr. M K Wadhvani	wadhvani1962@gmail.com
2.	Bharat Heavy Electrical Limited	Mr. M Azam Khan	mdazam.bhel@gmail.com
3.	Brihan Mumbai Electric Supply and Transport Undertaking,	Mr. R.J. Deshmukh	deccbward@bestundertaking.com
4.	Calcutta Electric Supply Corporation Limited	Mr. Sujit Kumar Pathak	sujit.pathak@rpsg.in
		Mr. Koushik Chowdhury	koushik.chowdhury@rpsg.in
5.	Central Power Research Institute	Mr. Shri S. Sudhakar Reddy	ssreddy@cpri.in
		Mr. M. S. Takkher	takkher@cpri.in
6.	Electrical Research and Development Association	Mr. Tirtha Vishwakarma	tirtha.vishwakarma@erda.org
7.	GE India Industrial Private Limited	Mr. Madhu Sudan	sudan.madhu@ge.com
8.	Gujarat Energy Transmission Corporation Limited	Ms. Hardika Bhatt	deengg7.getco@gebmail.com
		Mr. B.P Soni	seengg.getco@gebmail.com
9.	Indian Electrical and Electronics Manufacturers Association	Mr. Navdeep Singh	navdeep.singh@ieema.org
10.	Indian Institute of Technology Bombay	Mr. Himanshu J. Bahirat	hjbahirat@ee.iitb.ac.in
11.	Larsen and Toubro Limited	Mr. A. Kalyanasundaram	aksm@Intecc.com
12.	NTPC Limited	Mr. Suneet Mehta	suneetmehta@ntpc.co.in
13.	Nuclear Power Corporation of India Limited	Mr. Shri Jayanth Kumar Boppa	jkboppa@npcil.co.in
14.	Power Grid Corporation of India	Mr. R P S Rana	rpsrana@powergrid.in
15.	Schneider Electric India Private Limited	Mr. Nandeesh Kumar	nandeesh.kumar@mtech.christuniversity.in
16.	Siemens Limited	Mr. Subodh Kale	subodh.kale@siemens.com
17.	Steel Authority of India Limited (SAIL)	Mr. Gulshan Kumar	gulshank2001@gmail.com



18.	Stelmec Limited	Mr. Er. Y V JOSHI	yvj@stelmec.com
19.	Tata Power Delhi Distribution Limited	Mr. Mr. Brajanath Dey	brajanath.dey@tatapower-ddl.com
20.	In Personal	Mr. V.Ramesh	vramesh1964@outlook.com

Item 0 GENERAL

0.1 WELCOME & OPENING REMARKS BY THE CHAIRMAN

The Chairman welcomed the members present to the meeting. He appreciated the efforts of members actively contributing to the process of standardization and hoped for a fruitful discussion on all Agenda points. He advised the members to examine IEC documents circulated from time to time and to provide comments so that India-specific view-point is considered at the time of development and revision of important IEC standards which are accepted and implemented in India as well.

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 28th meeting of High Voltage Switchgear and Controlgear Sectional Committee, ETD 08, held on 13 Sep 2023 virtually.

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

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

2.2 The following organizations to provide updated nominations:

- Indian Electrical and Electronics Manufacturers Association
- Power Grid Corporation of India

2.3 It was decided to co-opt Shri V. RAMESH (superannuated from ABB) in person capacity given his expertise and experience in the field of High Voltage Switchgear.

2.4 Co-option requests received via Standardization portal which were also attached in Annex 1 were considered by the committee. The following was decided:

- i) It was decided co-opt Abir Kumar Majumdar as an alternate member representing General Electric.
- ii) It was decided co-opt Narendra Kumar Sharma as an alternate member representing Eaton Technologies Pvt. Ltd.

Item 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl. No.	Item of previous minutes	Decision Taken	Action
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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

4.2 Annex 3 of the agenda which lists the IEC standards against which no Indian Standards exist was reviewed and it was decided to share the copies of IEC standard mentioned in Annex 3 among the Working group and technical committee members for consideration of the committee for harmonization within 1 months from the date of the meeting. Further, the working group shall also state reasons for not recommending the IEC standards, if any, from the list for adaptation in India as Indian Standards.

Working Group (WG) composition:

- i) Shri V Ramesh, In Person Capacity- Convener
- ii) Shri S Sudhakar Reddy, M/s CPRI
- iii) Shri R.P.S. Rana, GM(AM), Power grid Corporation of India Ltd.

4.1 DRAFTS UNDER PRINT

Sl. 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.	Doc ETD 08 (18961) Code of Practice for on-site Diagnostic Tests	Member secretary has rearranged certain paragraphs and made modifications to the language to align the	Certain paragraphs are re-arranged and language is modified to align the draft standard on 'Code of Practice for on-site	1. Members from Schneider electric Ltd and NPCIL are requested to re-submit the



	<p>and Condition Monitoring of High Voltage Substation Equipment</p>	<p>draft standard with the BIS Framework of standards. Mail sent to Panel ETD 08/P1 to kindly review the changes made in the draft document and reply to the comments to modify the draft document in the standard WC format.</p> <p>ETD 08/P1 Composition:</p> <ol style="list-style-type: none"> 1. Shri Sujit Pathak, CESC Limited Convener 2. Shri R.K. Tyagi, POWERGRID 3. Shri Y.V. Joshi, In person capacity 4. Shri Dilip Kumar Puhan, CPRI 5. Shri Anil Khopkar, ERDA 	<p>Diagnostic Tests and Condition Monitoring of High Voltage Substation Equipment' with the BIS Framework of standards.</p> <p>The draft standard circulated to the state utilities/DISOMs separately seeking their comments and suggestions on the draft.</p> <p>Last Date of comments: 5 May 2024</p> <p><i>No comments were received from state utilities/DISOMs.</i></p> <p>IEEMA representatives were requested to circulate the draft standard among industry participants to obtain their comments. Comments received from the following organizations:</p> <ol style="list-style-type: none"> 1. Schneider electric Ltd 2. NPCIL 3. Siemens Ltd <p>The comments are attached at Annex 4 of the agenda.</p>	<p>comments with proposed changes.</p> <ol style="list-style-type: none"> 2. Representatives from POWERGRID and ERDA are requested to provide updated nominations for ETD 08/P1. 3. The consolidated comments will be circulated among the ETD 08/P1 members for their consideration. 4. The ETD 08/P1 meeting will be scheduled in June to finalize the draft standard for wide circulation.
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4.4 P-DRAFTS

Sl No.	Subject/IS/IEC no.	Action reported in the last meeting	Action reported in the agenda	Decision Taken
1.	GIS Switchgear for voltage levels ≤ 52 kV	Shri V Ramesh, M/s ABB India informed that the present GIS Switchgear requirements are already covered and handled under IEC 62271-200.	Letter received from CEA regarding the preparation of the Indian Standard for Gas Insulated Substation	The committee discussed the letter received from CEA for preparation of the Indian Standard for Gas Insulated Substation (GIS)/Hybrid GIS.



		Hence there is no need to prepare a new standard on this subject. The committee decided to drop the subject.	(GIS)/Hybrid GIS. The copy of letter is attached at Annex 5 of the agenda.	<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> <ol style="list-style-type: none"> 1) The international standards referred to by utilities and manufacturers for GIS/Hybrid GIS. 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?
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Item 5 Review of Published Standards for Revision/Reaffirmation

5.1 The committee reviewed the list of Indian standards which are due for 5 years and following were decided:

Sl. No	IS/IEC No	Title	Latest IEC	Decision Taken
1	IS/IEC 62271-301: 2009	High Voltage Switchgear & Controlgear Part 301 Dimensional Standardization of High Voltage Terminals		The committee decided to reaffirm the Indian Standard as the base IEC is not revised.
2	IS/IEC 62271-207 : 2012	High - Voltage switchgear and controlgear: Part 207 seismic qualification for gas - Insulated switchgear assemblies for rated voltages above 52 kV (First Revision)	Latest IEC: IEC 62271-207:2023	The committee decided to circulate the IEC 62271-207:2023 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
3	IS/IEC 62271-202 : 2014	High - Voltage switchgear and controlgear: Part 202 high - Voltage/low - Voltage prefabricated substation	Latest IEC: IEC 62271-202:2022	The committee decided to circulate the IEC 62271-207:2023 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
4	IS 5561 : 2018	Electric power connectors - Specification (First Revision)		The committee decided to reaffirm the Indian Standard.

Item 7 INTERNATIONAL ACTIVITIES

The committee noted the information given in the agenda.

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 physical mode tentatively in the month of Sep 2024 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.