BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
UHV AC Transmission Sectional Committee, ETD 48	10th	Thursday	20 June 2024	1100 AM	JOIN MEETING **Meeting no**: 2518 270 2225 **Password** : ETD48

CHAIRMAN: Shri Vibhay Kumar **MEMBER SECRETARY: Shri Ashok Kumar**

Item 0 GENERAL

0.1 WELCOME AND OPENING REMARKS BY THE CHAIRMAN

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The minutes of the 9th meeting of UHV AC Transmission Sectional Committee, ETD 48 held on 21-November-2023 virtually, were circulated through BIS-Connect portal ref. no. ETD 48/A-2.09 dated 02 Feb 2024. No comments were received.

No comments were received.

The Committee may formally confirm the minutes of the 9th meeting.

ITEM 2 COMPOSITION OF UHV AC TRANSMISSION SECTIONAL COMMITTEE, ETD 48

2.1 The present composition of UHV AC Transmission Sectional Committee, ETD 48 is given at **Annex 1.**

The Committee may consider the participation status of the member organizations and review the composition. The Committee is also requested to give suggestions for improvement in participation status of the members.

Item 3 ISSUES ARISING OUT OF PREVIOUS MEETINGS

Sl. No.	Item No & Subject	Decision of the last meeting	Action/ Remarks
3.1	New subjects	Shri Kaustuv Roy M/s Solar Energy Corporation suggested to develop a new standard on 'Reactive power management in UHV lines. He was requested to submit a TOR for R&D on the subject along with the IEC NP form.	Mr. Shri Kaustuv Roy M/s Solar Energy Corporation of India Limited prepared draft ToR on 'Reactive Power management in UHV Transmission lines' and submitted to BIS. (attached at **annex 2** separately). The draft ToR on the subject circulated to all the members for their review and suggestions. No comments were received from the members on draft ToR

Item 4 DRAFT STANDARDS/AMENDMENTS UNDER PRINT

Sl. No.	Item No & Subject	Current Status
a.	**ETD 48 (19990): (Identical to: IEC TS 63042-102:2021)** UHV AC Transmission Systems Part 102 General SystemDesign	The documents are under advanced stage of printing.
b.	**ETD 48 (19991): (Identical to: IEC TS 63042-202:2021)** UHV AC Transmission Systems Part 202 UHV AC Transmission Line Design	
c.	**ETD 48 (19992): (Identical to: IEC TS 63042-302:2021)** UHV AC Transmission Systems Part 302 Commissioning	
d.	**ETD 48 (19993): (Identical to: IEC TR 63042-303:2021)** UHV AC Transmission Systems Part 303 Guideline for the Measurement of UHV AC Transmission Line	

	Power Frequency Parameters	

The committee may note.

Item 5 REVIEW/REAFFIRMATION OF INDIAN STANDARDS

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. No Indian Standard is due for review.

Item 6 PROGRAMME OF WORK

6.1 The present position of work under ETD 48 is given in **Annex 3.**

The committee may note.

Item 7 INTERNATIONAL ACTIVITIES

7.1 India is a P-member in the IEC TC 122 committee. Four working groups are present in IEC TC122:

a) WG 1 - System design
b) WG 2 - Substation and Transmission Line Design
c) WG 3 – Commissioning
d) WG 4- Maintenance

The following experts are registered in various Working Groups of IEC TC 122 Committee:

Sl. No	Working Group	Expert
1.	WG 1	1. Mr Kashish Bhambhani 2. Mr B N De Bhowmick 3. Mr Pradeep Patil Tanaji
2.	WG 2	1. Mr Anish Anand (Convenor) 2. Mr B N De Bhowmick 3. Mr Chandra Kant 4. Mr Bheema Reddeswara Rao Sunkara
3.	WG 3	1. Mr B N De Bhowmick 2. Mr AMANDEEP SINGH 3. Mr R K Tyagi

4.	WG 4	1. Mr AMANDEEP SINGH

The present position of work of the corresponding IEC Technical Committee IEC TC122 is given at **Annex 4**.

Item 10 DATE AND PLACE OF NEXT MEETING

Item 11 ANY OTHER BUSINESS

ANNEX – 1

COMPOSITION OF UHV AC TRANSMISSION SECTIONAL COMMITTEE, ETD 48

Sl. No.	Name of Organization	Represented by	Last 2 Meetings Attendance
1.	Power Grid Corporation ofIndia, Gurugram	Shri. Shri Vibhay Kumar (*Chairperson*)	2/2
2.	Aditya Birla InsulatorsCompany, Halol	Shri Sakthivelu Subramanian	2/2
		Shri Harleen Singh Minhas	
3.	Asea Brown BoveriLimited, Faridabad	Shri Nihar Raj	1/2
		Shri Vishal Dubey	
4.	Bharat Heavy ElectricalLimited, New Delhi	Shri Rakesh Singh	1/2
		Shri Dipak Kumar Mandal	
		Shri Muneet Mehta	
		Shri Vivek Kapil	
5.	CG Power and IndustrialSolutions, Mumbai	Shri. Uday Sanvatsarkar	1/2
		Shri Shailesh R. Josh	
6.	Central Electricity Authority, New Delhi	Shri Bhanwar Singh Meena	1/2
		Shri Pankaj Kumar Verma	
7.	Central Power ResearchInstitute, Bengaluru	Shri Pradeep M Nirgude	2/2
		Shri. Jithin Pauly P	
		Shri. K. Urukundu	
8.	GE Power India Limited (Alstom Project India Limited), Noida	Shri Govind Shrivastava	0/2
9.	Haryana Vidyut Prasaran Nigam Limited, Panchkula	Er. Anju	2/2
		Er. Sandeep Verma	
10.	Indian Electrical and Electronics ManufacturersAssociation, New Delhi	Smt Pragati Sohoni	1/2
		Shri Vivek Arora	
11.	KEC International Limited,Mumbai	Shri E. V. Rao	0/2
		Smt Ramnik Arora	
12.	Kalpataru Power Transmission Limited,Gandhinagar	Shri Bipin B Shah	1/2
		Shri Sujal B. Shah	
13.	Oblum Electrical IndustriesPrivate Limited, Hyderabad	Shri O Balagangadhar	1/2
		Shri O Shrinivas	
14.	Power Grid Corporation ofIndia, Gurugram	Shri Subir Sen	2/2
		Shri S B R Rao	
		Shri Chandra Kant	
		Shri Anish Anand	

15.	Raychem RPG PrivateLimited, Chennai	Shri Sasi Kuma	0/2
16.	Siemens Limited, Mumbai	Shri Subodh Kale	1/2
		Shri M. Karikalan	
17.	Solar Energy Corporation ofIndia Limited, New Delhi	Shri Kaustuv Roy	1/2
		Smt. Jaya	
18.	Transformers and Rectifiers (India) Limited, Ahmedabad	Shri Virendra Lakhiani	1/2
		Shri Aniruddha Jhala	
19.	In Personal Capacity	Shri B N De Bhowmick	1/2

ANNEX – 3

PROGRAM OF WORK OF ETD 48

Scope: *Standardization in the field of AC transmission technology at 800 kV and above, comprising systems-oriented guidance such as that for planning, design aspects, technical requirements, construction, commissioning, reliability, availability, operation and maintenance, processes for specifying requirements and demonstrating whether the required performance of UHV systems is assured.*

Liaison: IEC TC-122 (P): *UHV AC transmission systems*

PUBLISHED STANDARDS

Sl. No.	IS No.	TITLE
1.	IS/IEC/TR 63042-100 : 2016	UHV AC TRANSMISSION SYSTEMS Part 100 General information
2.	IS/IEC/TS 63042-101 : 2019	UHV AC TRANSMISSION SYSTEMS Part 101 Voltage regulation and insulation design
3.	IS/IEC/TS 63042-201 : 2018	UHV AC TRANSMISSION SYSTEMS Part 201 UHV AC substation design
4.	IS/IEC/TS 63042-301 : 2018	UHV AC TRANSMISSION SYSTEMS Part 301 On-site acceptance tests

ANNEX – 4

TC122 Publications Generated on 2024-06-06

Sr No.	Reference	Title
1.	IEC TR 63042-100:2016	UHV AC transmission systems - Part 100: General information
2.	IEC TS 63042-101:2019	UHV AC transmission systems - Part 101: Voltage regulation and insulation design
3.	IEC TS 63042-102:2021	UHV AC transmission systems - Part 102: General system design
4.	IEC TS 63042-201:2018	UHV AC transmission systems - Part 201: UHV AC substation design
5.	IEC TS 63042-202:2021	UHV AC transmission systems - Part 202: UHV AC transmission line design
6.	IEC TS 63042-301:2018	UHV AC transmission systems - Part 301: On-site acceptance tests
7.	IEC TS 63042-302:2021	UHV AC transmission systems - Part 302: Commissioning
8.	IEC TR 63042-303:2021	UHV AC transmission systems - Part 303: Guideline for the measurement of UHV AC transmission line power frequency parameters