

## Minutes

| Name of the Committee   | No. of Meeting   | Day     | Date        | Time      | Venue  |
|---|------------------|---------|-------------|-----------|--|
| Electrical Insulators and Accessories Sectional Committee<br>ETD 06 | 22 <sup>nd</sup> | Tuesday | 14 May 2024 | 1100 hrs. | Hybrid<br>(Virtual + Physical)<br><br>BIS HQ New Delhi |

**Chairperson-** Shri S.S. Mishra

**Member Secretary:** Md. Israfil

### Member Presents:

| S.N | Organization  | Representative                 | Email Id                            |
|-----|---|--------------------------------|-------------------------------------|
| 1.  | In Personal Capacity                                  | Shri Shiv Shankar Mishra       | ssmishra_7@yahoo.com                |
| 2.  | Bureau of Indian Standards                            | Md Israfil                     | eetd@bis.gov.in                     |
| 3.  | BHEL, New Delhi                                       | Shri Surya Prasad M N V        | mnvsprasad@bhel.in                  |
| 4.  | Central Electricity Authority, New Delhi              | Shri Bhanwar Singh Meena       | bhanwar.cea@gov.in                  |
| 5.  | Calcutta Electric Supply Corporation Limited, Kolkata | Shri Parikshit Kumar Chowdhury | parikshit.chowdhury@rpsg.in         |
| 6.  | Central Power Research Institute, Bengaluru           | Dr. Dharmesh Yelamanchi        | dharmesh@cpri.in                    |
| 7.  | Epsilon Asia Group, New Delhi                         | Shri Neelesh Arora             | aneesh@hotmail.com                  |
| 8.  | ERDA, Vadodara  | Shri Tirtha Vishwakarma        | tirtha.vishwakarma@erda.org         |
| 9.  | IEEMA   | Shri Rishabh Joshi             | rishabh.joshi@ieema.org             |
| 10. | JG&P  | Shri Romana Karnail Singh      | sales@dataceramics.co.in            |
| 11. | NCRTC, New Delhi                                      | Shri Ajay Kumar                | ajay.kumar@ncrtc.in                 |
| 12. | NPCIL, Mumbai   | Shri Jayanth Kumar Boppa       | jkboppa@npcil.co.in                 |
|     |   | Shri Punit Kumar               | punitkumar@npcil.co.in              |
| 13. | PGCIL, Gurugram                                       | Shri Rajesh Gupta              | rajeshgupta@powergrid.in            |
|     |   | Shri Ashish Kumar Singh        | ashishsingh@powergrid.in            |
| 14. | RDSO, Lucknow   | Shri Girraj Kishore            | dti5rdso@gmail.com                  |
| 15. | Sukrut Electric Company Private Limited, Pune         | Shri Pritesh Devidas Dehadray  | pritesh.dehadray@sukrutelectric.com |

|     |                      |                    |                        |
|-----|----------------------|--------------------|------------------------|
| 16. | In Personal Capacity | Shri Aseem Dhamija | dhamijaaseem@gmail.com |
| 17. | In Personal Capacity | Dr. vasudev        | vasudev.dr@gmail.com   |

#### **ITEM 0 WELCOME BY THE CHAIRPERSON**

The Chairperson, Shri S S Mishra welcomed all the members present. He requested all the members to actively participate in the discussions during the meeting to arrive at the decision for documents under consideration. He apprised the members regarding discussions/decisions on various subjects/ documents during the meeting.

#### **ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

The committee formally confirmed the minutes of the last meeting (21<sup>st</sup> meeting) of Electrical Insulators and Accessories Sectional Committee, ETD 06 held on 21 December 2023.

#### **ITEM 2 COMPOSITION OF SECTIONAL COMMITTEE AND PANELS**

Committee decided to co-opt member from following organization:

1. Modern Insulators Limited, Abu road Rajasthan- Shri S.V. Phaneesha, and Shri Vaibhav Jain

Status of participation of members in the previous three meetings inviting suggestions for improvement.

Committee noted the information given in the agenda.

#### **ITEM 3 ACTION ARISING OF PREVIOUS MEETING.**

| <b>S. No.</b> | <b>Item of the Last Meeting</b> | <b>Draft Indian Standard/Document</b>  | <b>Actions</b>  | <b>Decision of the meeting</b>                                     |
|---------------|---------------------------------|--|---|--|
| 1.            | 3.2                             | IS 12676 : 1989 (Oil impregnated paper insulated condenser bushings - Dimensions and requirements) | Shri J K Boppa elaborated on the major deviations on IS 12676 and CEA regulations | Committee decided to submit comparative chart to CEA for comments. |

|    |   |  |  |  |
|----|---|--|--|--|
| 2. | 3.4   | <p><b>IS 13312: 1992</b> (Dimensions of porcelain oil filled transformer bushings (Rated 52 KV) for medium polluted atmospheres).</p> <p>ITMA commented that- The standard is applicable for 52KV normally polluted atmosphere. Please add dimensions for heavily polluted atmosphere also.</p> <p>The current rating specified 630 Amps and 1000Amps only. For higher ratings of 2000, 3150 &amp; 5000 A use only Oil Filled Paper Condenser Bushing. Therefore, we cannot include the above ratings in this standard.</p> <p>Please specify that the porcelain shall be single piece and without any joints.</p> | Committee requested members to take the subject for Action Research Project. | Committee decided that BHEL may have expertise. Hence, BHEL to take the standard for revision  |
| 3. | IS 16685 : 2018<br>IEC 62223 : 2009<br>Insulators - Glossary of terms and definitions |  | Document may be considered for withdrawal.                                   | Committee decided that the document would be considered for withdrawal after consultation with manufacturers other than members of ETD-06.<br>IEEMA to share the information with the manufacturers. |

#### ITEM 4 PRESENT POSITION OF WORK UNDER THE SCOPE OF ETD 06

4.1 Committee noted the information given in the agenda.

#### 4.2 Documents under Printing/Printed

| S. No. | IS/IEC no.                    | Title   | Decision        |
|--------|-------------------------------|---|-----------------|
| 1.     | ETD/06/17473<br>IS 9431: 1979 | Specification for indoor post insulators of organic material for systems with nominal voltages greater than 1 000 V up to and including 300 kV (First Revision) | Committee Noted |
| 2.     | ETD/06/24610                  | Insulators for Overhead Lines with a  |                 |

|    |  |  |  |
|----|--|--|--|
|    | IS/IEC 60383 : Part 1: 1993<br>(Identical To: IEC 60383-1: 2023)           | Nominal Voltage above 1 000 V Part 1 Ceramic or Glass Insulator Units for a.c Systems Definitions, Test Methods and Acceptance Criteria (First Revision)   |  |
| 3. | ETD/06/24611<br>IS/IEC 61462 : 2007<br><br>(Identical To: IEC 61462: 2023) | Composite Hollow Insulators Pressurized and Unpressurized Insulators For Use in Electrical Equipment with a.c Rated Voltage Greater than 1 000 V a.c and d.c Voltage Greater than 1 500 V Definitions, Test Methods, Acceptance Criteria and Design Recommendations (First Revision) |  |
| 4. | ETD/06/17553<br>IS/IEC 60305: 1995<br><br>Identical to IEC 60305: 2021     | Insulators for Overhead Lines with a Nominal Voltage Above 1 000 V — Ceramic or Glass Insulator Units for a.c. Systems — Characteristics of Insulator Units of the Cap and Pin Type  |  |
| 5. | ETD/06/17475<br>IS/IEC 60372: 1984<br>Identical to IEC 60372: 2020         | Locking Devices for Ball and Socket Couplings of String Insulator Units — Dimensions and Tests   |  |
| 6. | ETD/06/17477<br>IS/IEC 60471: 1977<br>Identical to IEC 60471: 2020         | Clevis and Tongue Couplings of String Insulator Units — Dimensions   |  |

## ITEM 5 REVIEW/REAFFIRMATION OF INDIAN STANDARDS

**5.1 IEC Revised List:** Following IEC Standards adopted by BIS have been revised/withdrawn

| S. No. | IS/IEC No.                         | Title   | IEC Revised     | Decision   |
|--------|------------------------------------|---|-----------------|--|
| 1.     | IS 8263 : 2018<br>IEC 60437 : 1997 | Radio interference test on high - Voltage insulators (First Revision) | IEC 60437: 2023 | Committee decided to wide circulate the doc for 30 days. If no comment received, doc to be processed for printing. |

**5.2** Committee noted the information given in the agenda.

### 5.3

| S. No. | IS No.       | Title  | Remarks   | Decision                                     |
|--------|--------------|--|---|--|
| 1      | IS 1441:1989 | Insulator stalks for telegraph and telephone lines - Specification       | Indian Standards may be considered for withdrawal | Committee Decided to withdraw the standards. |
| 2      | IS 283:1976  | Specification for porcelain insulators for telegraph and telephone lines |   |  |

## **ITEM 6 INTERNATIONAL ACTIVITIES**

- 6.1** Committee decided to nominate Shri Atul Bapat and Shri Pritesh Dehadray as an expert in JWG-7 (Dimensional bushing standardization linked to TC 14).
- 6.2** Committee noted the information given in the agenda.

## **ITEM 7 NEW SUBJECTS AND FUTURE PROGRAMME OF WORK**

**7.1** Annual Plan for Standardization

**7.2** Revision of all standards prior to year 2000 through Action research Project.  
The committee may consider the adoption of the latest IEC publication

**Committee Noted**

## **ITEM 8 DATE AND PLACE FOR THE NEXT MEETING**

The date and place of the next meeting shall be decided in consultation with the chairperson.

## **ITEM 9 ANY OTHER BUSINESS**

There being no further comments, the meeting ended with a vote of thanks to the chairperson.