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**BUREAU OF INDIAN STANDARDS**  
**AGENDA**

<b>Name of the Committee</b>	<b>No. of Meeting</b>	<b>Day</b>	<b>Date</b>	<b>Time</b>	<b>Venue</b>
Electrical Insulators and Accessories Sectional Committee ETD 06	23 <sup>rd</sup>	Wednesday	20-11-2024	11:00 AM	WebEx Online <a href="#">Join here</a>

**Chairman:** Shri S.S. Mishra

**Member Secretary:** Mr Nitish Kr Jain

**ITEM 0 GENERAL**

**0.1 Welcome and Opening Remarks by the Chairman**

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

1.1 The minutes of the last meeting (22<sup>nd</sup> meeting) of Electrical Insulators and Accessories Sectional Committee ETD 06 held on 14 May 2024 at BIS HQ, New Delhi were circulated vide BISDG letter No. ETD 06/A-2.22 dated 20 May 2024.

No comments received.

*The committee may formally confirm the minutes.*

**ITEM 2 COMPOSITION OF ELECTRICAL INSULATORS AND ACCESSORIES SECTIONAL COMMITTEE ETD 06**

2.1 The composition and participation status for last 2 meetings of the Electrical Insulators and Accessories Sectional Committee ETD 06 is given in Annex 1 for information.

**2.2 Notified Vacancy of Academic Institution and Central Ministry/Dept. for Membership in ETD 06 Sectional Committee**

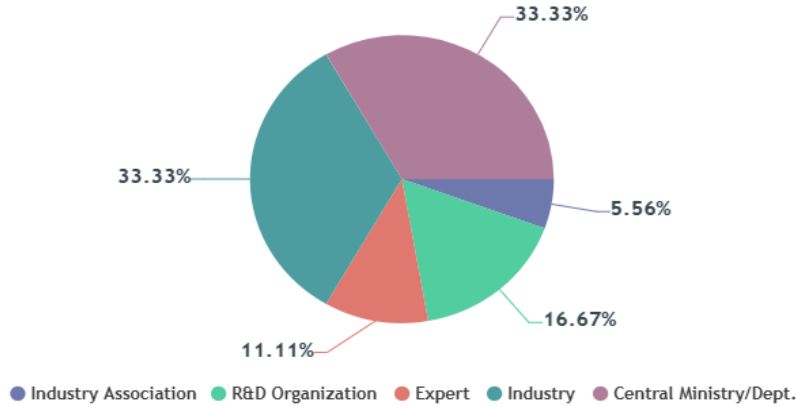
The Notified Vacancy for Academic Institution (2) in ETD 06 Sectional Committee.

<b>ETD Sectional Committee</b>	<b>06</b>	<b>Functional Category wise breakup</b>											
		<b>IA</b>	<b>RG</b>	<b>SG</b>	<b>R&amp;D</b>	<b>AI</b>	<b>E</b>	<b>I</b>	<b>CG</b>	<b>CM/D</b>	<b>T</b>	<b>U</b>	<b>Total</b>
<b>Present vacancy breakup</b>		1	0	0	3	0	2	6	0	6	0	0	18

IA	Industry Association	RG	Regulatory Body
SG	State Government	R&D	R&D Organization
AI	Academic Institution	E	Expert
I	Industry	CG	Consumer Group
CM/D	Central Ministry/Dept.	T	Technologist
U	Unclassified		

## ETD 06-Electrical Insulators And Accessories Sectional Committee

### Functional Category wise breakup



The committee may note.

### 2.3 Review of Contribution of Members (Comments on P-drafts, WC drafts, attendance, etc)

#### Item 3 OVERVIEW OF THE ACTIVITIES OF THE COMMITTEE

3.1 The present position of work under Electrical Insulators and Accessories Sectional Committee, ETD 06 is given below:

Sl. No.	Item No. of last minutes	ITEM	Decision	Action
1.	3.1	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.	Comparison sheet provided by Shri J K Boppa, NPCIL was shared to CEA for comments vide email dated 16 July 2024.  <i>Response awaited from CEA.</i>
2.	3.2	IS 13312: 1992 (Dimensions of porcelain oil filled transformer bushings Rated 52 kV for medium polluted atmospheres) <b>ITMA comments:</b> The standard is applicable for 52 kV normally polluted	Committee requested members to take the subject for Action Research Project.  Committee decided that BHEL may have expertise.	Request for inputs was sent vide email dated 16 July 2024.  <i>Response awaited from BHEL.</i>

		atmosphere. Request to add dimensions for heavily polluted atmosphere also. The current rating specified 630 A and 1000 A only. For higher ratings of 2000, 3150 & 5000 A use only Oil Filled Paper Condenser Bushing. Hence, we cannot include the above ratings in this standard. Need to specify that the porcelain shall be single piece and without any joints.	Hence, BHEL to take the standard for revision.	
3.	3.3	IS 16685 : 2018/ IEC 62223 : 2009 Insulators - Glossary of terms and definitions  IEC withdrawn.	Committee decided that the document would be considered for withdrawal after consultation with manufacturers other than members of ETD-06. IEEMA to share the information with the manufacturers.	Request for inputs was sent vide email dated 16 July 2024.  Response awaited from IEEMA.
4.	5.3.1	IS 1441:1989, Insulator stalks for telegraph and telephone lines - Specification	Committee decided to withdraw the standard.	Under process for withdrawal.
5.	5.3.2	IS 283:1976, Specification for porcelain insulators for telegraph and telephone lines	Committee decided to withdraw the standard.	Under process for withdrawal.

#### Item 4 REVIEW OF INDIAN STANDARDS FOR REVISION/ REAFFIRMATION

4.1 As per the guidelines, published Indian Standards should be reviewed after every five years. If no revision is called for, standard(s) may be re-affirmed. Reaffirmation of the standards(s), however, does not prevent from these standard(s) being taken up for revision.

Standards due for review are given at Annex 2.

*The committee may review.*

#### 4.2 Panel/ Working to be created to strengthen the work of the committee

Sectional Committee	IEC	Sectors	Sub-Sectors	Working Panels/Working Groups	No. of Standards		
					Indigenous	Adopted	Modified
ETD 06	IEC TC 36 IEC SC 36A	Porcelain insulators and accessories		Panel 1 (Composition to be created)  WG 1 (For transformer bushing)- Composition to be created	1. IS 12676 : 1989	1. IS/IEC 60120 : 2020 2. IS/IEC 60137 : 2017	1. IS 10314 : 1982 2. IS 13305 : 1992 3. IS 2486 (Part 3) : 1974 4. IS 2486 (Part 4) : 1981 5. IS 3347 (Part 1/Sec 1) : 1979
					2. IS 13312 : 1992		
					3. IS 1441 : 1989		
					4. IS 1445 : 1977		
					5. IS 15137 : 2002		
					6. IS 2486 (Part 1) : 1993		

					<ul style="list-style-type: none"> <li>7. IS 2486 (Part 2) : 1989</li> <li>8. IS 283 : 1976</li> <li>9. IS 3347 (Part 4/Sec 1) : 1988</li> <li>10. IS 3347 (Part 5/Sec 2) : 1979</li> <li>11. IS 4318 : 1993</li> <li>12. IS 5350 (Part 1) : 1970</li> <li>13. IS 7421 : 1988</li> <li>14. IS 8603 : 2008</li> <li>15. IS 8603 (Part 4) : 2003</li> </ul>		<ul style="list-style-type: none"> <li>6. IS 3347 (Part 1/Sec 2) : 1979</li> <li>7. IS 3347 (Part 2/Sec 1) : 1979</li> <li>8. IS 3347 (Part 2/Sec 2) : 1979</li> <li>9. IS 3347 (Part 3/Sec 1) : 1988</li> <li>10. IS 3347 (Part 3/Sec 2) : 1982</li> <li>11. IS 3347 (Part 4/Sec 2) : 1982</li> <li>12. IS 3347 (Part 5/Sec 1) : 1979</li> <li>13. IS 3347 (Part 8/Sec 1) : 1988</li> <li>14. IS 3347 (Part 8/Sec 2) : 1992</li> <li>15. IS 4257 (Part 1) : 1981</li> <li>16. IS 4257 (Part 2) : 1986</li> <li>17. IS 5300 : 1969</li> <li>18. IS 5350 (Part 2) : 1973</li> <li>19. IS 5350 (Part 3) : 1971</li> <li>20. IS 731 : 1971</li> <li>21. IS 8765 : 1978</li> </ul>
		Composite Insulators & coatings		Panel 2 (Composition to be created)	<ul style="list-style-type: none"> <li>1. IS 7648 : 1975</li> </ul>	<ul style="list-style-type: none"> <li>1. IS 16684 : 2018</li> <li>2. IS 16687 : 2018</li> </ul>	

					2. IS 7935 : 1975	3. IS 16784 : 2018 4. IS/IEC 60168 : 2000 5. IS/IEC 60273 : 1990 6. IS/IEC 60305 : 2021 7. IS/IEC 60372 : 2020 8. IS/IEC 60383-1 : 2023 9. IS/IEC 60383-2 : 1993 10. IS/IEC 60433 : 2021 11. IS/IEC 60471 : 2020 12. IS/IEC/TR 60575 : 1977 13. IS/IEC 60720 : 1981 14. IS/IEC 61211 : 2004 15. IS/IEC/TS 61245 : 2015 16. IS/IEC 61325 : 1995 17. IS/IEC 61462 : 2023 18. IS/IEC 62155 : 2003 19. IS/IEC/TS 62371 : 2008 20. IS/IEC/TS 62896 : 2015 21. IS/IEC/IEEE 65700-19-3 : 2014 22. IS 9431 : 2024	
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						23. IS 8704 : 2018	
		Guide for selection & installation		Panel 3 (Composition to be created)	IS 10136 : 1982	1. IS 16683 (Part 1) : 2018 2. IS 16683 (Part 2) : 2018 3. IS 16683 (Part 3) : 2018 4. IS 16683 (Part 4) : 2021 5. IS 16685 : 2018 6. IS 16686 : 2018 7. IS/IEC/TS 61463 : 2016 8. IS/IEC/TS 62073 : 2016 9. IS 8263 : 2024 10. IS/IEEE Std1523™ : 2018	1. IS 13134 : 1992 2. IS 8269 : 1976

## Item 5 INTERNATIONAL ACTIVITIES

5.1 India is a 'P' member of IEC TC 36 and IEC SC 36A. The publications issued and position of work of IEC/TC 36 and SC 36A can be accessed with the hyperlink.:

### Link to access

[IEC TC 36 Work Programme](#)

[IEC TC 36 Publications](#)

[IEC SC 36A Work Programme](#)

[IEC SC 36A Publications](#)

5.2 As a 'P' member of above IEC/TC, India has an obligation to send voting on IEC drafts and comments wherever necessary. The details of voting/comments sent since the last meeting of ETD 06 is given in Annex 3.

*The committee may note.*

5.3 All IEC ballots are uploaded on BIS IR portal which can be accessed through your login id and password.

*Login to BIS portal -> Select International Relations Portal (wait for it to login, it will automatically log in) -> Go to ballots -> Select ballot you wish to review-> Submit your comments/responses on the portal itself.*

*Kindly note that all future IEC ballot circulations shall only be through this portal and not through email and all comments are to be submitted on IR portal only.*

#### 5.4 Review of Nominated Experts in IEC TC 36 and SC 36A

SI No.	Expert	WG/MT/PT	Report of progress of work
1.	Mr Neelesh Arora	PT 63432 Room temperature vulcanising (RTV) silicone rubber for outdoor insulators	-
2.	Mr Atul Subhash Bapat	JWG 7 Dimensional bushing standardization linked to TC 14	-
3.	Mr Dehadray Pritesh Devidas	JWG 7 Dimensional bushing standardization linked to TC 14	-

*The committee may review. The committee may also nominate experts for the Working Groups in which there are no Experts nominated from India. Details are at Annex 4.*

#### 5.5 Review of the Projects under IEC TC 36 & SC 36A and designation of experts

- Focus will now be on participating in the making of IEC standards on the basis of the Level of Interest established in respect of a NWIP or draft standard.
- The Member Secretary, in consultation with the Chair of the Sectional Committee and the Head of the Department, and if necessary, with the entire Sectional Committee, shall determine and specify the Level of Interest for each NWIP or draft standard received from IEC in the IRD Portal.
- The next step is 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 IEC level.

The IEC TC 36 and SC 36A current projects are as follows:

SI No	Project Ref No	Project	Level of Interest	IEC TC	Working Group	Existing Experts
1.	36A/247/CDV	IEC/IEEE 65700-19-03 ED2: Bushings for DC application		IEC SC 36A	JMT 9	No
2.	36/605/CD	Artificial pollution tests on high-voltage insulators made of hydrophobicity transfer materials to be used on a.c. and d.c. systems		IEC TC 36	-	-
3.	36/600/NP	Composite insulated cross-arms with a.c. rated voltage greater than 1 000 V and d.c. voltage greater than 1 500 V – Definitions, design criteria, test methods and acceptance criteria		IEC TC 36	WG 25	No
4.	36/607/DTS	Composite insulators with integrated optical fibres for AC voltages greater than 1000 V and DC voltages greater than 1500 V – Definitions, test methods and acceptance criteria		IEC TC 36	PT 63264	No

5.	36A/251/NP	PNW TS 36A-251 ED1: General requirements for tap adapter of capacitance graded bushing		IEC SC 36A	-	-
6.	36A/253/CD	IEC TS 63493-1 ED1: Transformer bushings dimensional standardization - Part 1: Medium voltage bushings with Um from 12 kV up to and including 52 kV and Ir from 630 A up to and including 3150 A		IEC SC 36A	JWG 7	1. Mr Atul Subhash Bapat 2. Mr Dehadray Pritesh Devidas

5.6 The next meeting of IEC TC 36 & SC 36A is scheduled to be held in spring 2025 at China.

#### ITEM 6 ACTION ARISING OUT OF PREVIOUS MEETING

Sl No	Item No of last minutes	ITEM	Status
1.	4.2.1	ETD/06/17473 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)	Published as IS 9431 : 2024/ IEC 60660 :1999
2.	4.2.2	ETD/06/24610 IS/IEC 60383 : Part 1: 1993, Insulators for Overhead Lines with a 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) (Identical To: IEC 60383-1: 2023)	Published as IS/IEC 60383-1 : 2023
3.	4.2.3	ETD/06/24611 IS/IEC 61462 : 2007, 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) (Identical To: IEC 61462: 2023)	Published as IS/IEC 61462 : 2023
4.	4.2.4	ETD/06/17553 IS/IEC 60305: 1995, 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 Identical to IEC 60305: 2021	Published as IS/IEC 60305 : 2021
5.	4.2.5	ETD/06/17475 IS/IEC 60372: 1984, Locking Devices for Ball and Socket Couplings of String Insulator Units — Dimensions and Tests Identical to IEC 60372: 2020	Published as IS/IEC 60372 : 2020
6.	4.2.6	ETD/06/17477 IS/IEC 60471: 1977, Clevis and Tongue Couplings of String Insulator Units — Dimensions	Published as IS/IEC 60471 : 2020



		Identical to IEC 60471: 2020	
7.	5.1.1	ETD/06/25767 IS 8263: 2018, Radio interference test on high - Voltage insulators (First Revision)  IEC 60437 : 1997	Committee decided to wide circulate the doc for 30 days. If no comment received, doc to be processed for printing.  Published as IS 8263: 2024/ IEC 60437: 2023.

*The committee may note.*

## ITEM 7 ENGAGEMENT OF YOUNG PROFESSIONALS

**7.1 Manak Pravardhak programme**, which is a comprehensive programme for engagement of Young Professionals in BIS's standardization work. The programme broadly cover topics such as Basics of standardization, BIS's R&D Projects, Optimizing ISO/IEC level participation, Transition to Smart Standard, Proposing New Work Items, etc.

The following activities are also intended to be undertaken for the YP's:

- Providing the opportunity to participate as observers in BIS's Technical meetings deemed relevant to the YPs,
- Encouraging YPs to comment on draft Indian Standards,
- Encouraging YPs to take up Action Research or R&D Projects,
- Invitation to events of national importance organized by BIS

It is intended to include them as experts in BIS's standard formulation work and encourage them to participate in national and international standardization activity. Nominations may kindly be shared as per the format below:

The eligibility criteria for the participants are as follows:

- Aged below 35 years,
- Employed by a business, industry which is represented on Technical Committee(s) of BIS, the nominated participant preferably not being the member of the BIS Technical Committee(s).
- Availability for the entire 2 days of the workshop

SI No.	Name	Organization	Designation	Date of Birth	Email Address	Mobile No	BIS Technical Committee(s) where the parent organization of the candidate is a member	Technical Department	Remarks (If any)
1					-				

## **ITEM 8 INFORMATION ON e-SALE OF STANDARDS BY BIS**

Bureau of Indian Standards, the National Standards Body of India has published more than 22000 Indian Standards which are available for sale.

Softcopy can be downloaded from BIS sales portal <http://www.standardsbis.in>.

## **ITEM 9 NATIONAL INSTITUTE FOR TRAINING IN STANDARDISATION (NITS)**

National Institute of Training for Standardization (NITS) has been set up by BIS with world-class facilities to impart training on various aspects leading to standardization, quality and other management systems, consumer protection, public service delivery, etc.

The training calendar for the current year is available on BIS website <http://www.bis.gov.in>.

## **ITEM 10 DATE AND PLACE OF NEXT MEETING**

## **ITEM 11 ANY OTHER BUSINESS**