

BUREAU OF INDIAN STANDARDS**MINUTES**

Name of the Committee	No. of Meeting	Day	Date	Time	Mode
Instrument Transformers Sectional Committee, ETD 34	24 th	Wednesday	25.09.2024	1500 h	Virtual

MEMBERS PRESENT

Sl. No.	Organization	Member	Email
1	In Individual Capacity	Sh. Dinkar Devate (<i>Chairman</i>)	dinkar.devate@gmail.com
2	Bureau of Indian Standards, New Delhi	Sh. Abinash Bordoloi (<i>Member Secretary</i>)	eetd@bis.gov.in
3	Bharat Heavy Electricals Limited, New Delhi	Sh. Kulamani Naik	kmnaik@bhel.in
4	Central Electricity Authority, New Delhi	Sh. Bhanwar Singh Meena	bhanwar.cea@gov.in
5	Central Power Research Institute, Bengaluru	Sh. Swaraj Kumar Das	skdas@cpri.in
6	Electrical Research and Development Association, Vadodara	a) Sh. Sailesh Patel b) Shri Krunalkrushanan Patel	a) shailesh.patel@erda.org b) krunalkrushnan.patel@erda.org
7	Gilbert and Maxwell Transformers Private Limited, Nashik	Sh. Pradeep Deshpande	gmtpl.nsk@gmail.com
8	GE T & D India Limited, Noida	Sh. Mayank Yadav	mayank.yadav@ge.com
9	Hitachi Energy India Ltd, Bangalore	a) Ms. Geeta Joshi b) Sh. Sunil Nannaware c) Sh. Mahesh Dorlikar	a) geetha.joshi@hitachienergy.com b) sunil.nannaware@hitachienergy.com c) mahesh.dorlikar@hitachienergy.com
10	Hivoltrans, Halol, Gujarat	Sh. Akre G.V	gvakre@gmail.com
11	Indian Electrical and Electronics Manufacturers Association, New Delhi	Sh. Kumar Rahul	kumar.rahul@ieema.org
12	Instrans Engineering and Manufacturing Private Limited, Bengaluru	Sh. V. Rajasekharan Nair	instrans@zoho.com
13	NTPC Limited, New Delhi	Sh. Amit Kumar Sah	amitkumarsah@ntpc.co.in

14	Narayan Powertech Private Limited, Vadodara	Sh. Chetas Parikh	chetas@narayanpowertech.com
15	Yadav Measurements Private Limited, Udaipur	a) Sh. Narendra Paliwal b) Sh. Vivek Jaiswal	a) narendra.paliwal@yadavmeasurements.com b) vivek.jaiswal@yadavmeasurements.com
16	In Individual Capacity	Sh. Vrajesh Desai (Invitee)	desaivrajesh58@gmail.com

Item 0 GENERAL

0.1 Welcome and Opening Remarks by the Chairman

Sh. Dinkar Devate, Chairman welcomed all the members present in the meeting. He requested the members to confine their discussions to the agenda and to participate actively in the discussions during the course of the meeting. He advised the committee to expedite the completion of works pending at various stages and also to ensure attendance in all the meetings of ETD 34 Sectional Committee.

Sh. Abinash Bordoloi, Member Secretary welcomed all the members present in the meeting. He briefed about the agenda items of the meeting. He also briefed the committee about the sector wise classification of Sectional Committees, Structuring of Working Groups/Panels as per the Sector wise classification of the Sectional Committee, Designation of IEC Projects as per Level of Interest (High/Medium/Low), Designation of Experts against the IEC Projects and working groups under IEC TCs, Roles and Responsibilities of the designated experts, Debriefing the committee about the discussions held in the working group meetings by the experts designated in the various working groups of IEC TCs after attending the meetings of the working groups, International Relations (IR) Portal. He further requested the members to ensure participation in all the meetings of the committee and wished for the active participation of the members in the discussions during the meeting.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The minutes of the 23rd Meeting of ETD 34 Instrument Transformers Sectional Committee held on 06.06.2024 has been confirmed by the committee.

Item 2 COMPOSITION OF ETD 34- INSTRUMENT TRANSFORMERS SECTIONAL COMMITTEE AND WORKING PANELS UNDER ETD 34 SECTIONAL COMMITTEE

2.1 The committee noted the composition of ETD 34 Sectional Committee and Working Panels under ETD 34 Sectional Committee as given in Annex 1 of the agenda.

2.2 Status of Participation of Members in the Previous Two Meetings.

The committee noted the status of participation of the Members in the Previous two meetings of ETD 34 sectional committee as given in Annex 2 of the agenda.

2.3 Notified Vacancy for membership in ETD 34 Sectional Committee.

The committee noted the vacancy notified for membership in ETD 34 Sectional Committee.

2.4 Sector Wise Classification of ETD 34 Sectional Committee

The sector wise classification of ETD 34 Sectional Committee as given in Annex 3 of the agenda was presented by the Member Secretary. The committee decided to restructure the composition of the existing working panels and constitute new working panels in line with the sector wise classification of ETD 34 Sectional Committee in consultation with the chair.

Item 3 NOMINATION/CO-OPTION REQUESTS FOR MEMBERSHIP IN ETD 34 SECTIONAL COMMITTEE

Sl. No.	Name of the Organization	Name of the nominated representative	Decision of the Committee
1	M/s Kappa Electricals	Dr. Mira Parasuram	The CV/Profile of Dr. Mira Parasuram was presented by the member secretary. After deliberations, the Co-option request of M/s Kappa electricals, has been approved by the committee.
2	In Individual Capacity	Mr. Pramod Govind Rao	The CV/Profile of Mr. Pramod Govind Rao was presented by the member secretary. After deliberations, the Co-option request of Mr. Pramod Govind Rao has been approved by the committee.
3	In Individual Capacity	Mr. Vrajesh J Desai	The CV/Profile of Mr. Vrajesh J Desai was presented by the member secretary. After deliberations, the Co-option request of Mr. Pramod Govind Rao has been approved by the committee.

Item 4 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl. No.	Item No. of last minutes	Subject	Decision taken during the last meeting	Decision taken during the meeting
1	Sl. No. 2 of table under Item No. 5.	Preparation of new Indian standard on "Condition Monitoring of Instrument Transformers".	It was decided in the 23 rd meeting of ETD 34 sectional committee to circulate the draft on "Condition Monitoring of Instrument Transformers", submitted by the working panel responsible for the preparation of aforesaid draft as 'P-Draft' for '30 days' for the review of the same by the committee.	The Member Secretary presented the draft submitted by the working Panel P/01 for the review of the committee. Sh. G V Akre, Convenor of working panel P/01 highlighted the contents of the draft. The draft was reviewed by the committee and it was noted that the scope was missing and requested the panel to include it in the draft. Further inputs with respect to the Title of the draft, terminology and figures provided in the draft were provided by the committee. The committee requested working panel P/01 to review the draft and submit the updated draft after incorporating the inputs provided during the meeting by 30.09.2024.
2	Sl. No. 3 of table under Item No. 5.	Revision of IS 4146: 1983 Application guide for voltage transformers and IS 4201:1983 -Application guide for current transformers	The panel had requested for an extension of two months for the preparation of the draft in the 23 rd ETD 34 sectional committee meeting.	The convenor of the panel Sh. G V Akre informed that the work on the drafts were under progress and it would require one month for completion. The committee noted and requested working panel P/02 to submit the drafts of IS

			The committee considered the request and decided to provide an extension of 'two months' to the working panel ETD 34/P2 responsible for the preparation of working draft for the revision of IS 4146:1983 and IS 4201:1983.	4146:1983 and IS 4201:1983 by 31.10.2024. The committee also decided to include Mr. Vrajesh J Joshi and Mr. Pramod Govind Rao in Working Panel 02.
4	Sl. No. 4 of table under Item No. 5.	Revision of IS 5547: 1983 Application guide for Capacitor Voltage Transformers and IS 6949:1973 - Summation current transformers	The panel had requested for an extension of two months for the preparation of the draft in the 23 rd ETD 34 sectional committee meeting. The committee considered the request and decided to provide an extension of 'two months' to the working panel ETD 34/P2 responsible for the preparation of working draft for the revision of IS 5547:1983 and IS 6949:1973.	The convenor of the panel Sh. G V Akre informed that the work on the drafts were under progress and it would require one month for completion. The committee noted and requested working panel P/02 to submit the drafts of IS 5547:1983 and IS 6949:1973 by 31.10.2024. The committee also decided to include Mr. Vrajesh J Joshi and Mr. Pramod Govind Rao in Working Panel 02.
5	Sl. No. 5 of table under Item No. 6.	Revision of IS 16227 (Part 1): 2016/IEC 61869-1:2007- Instrument transformers: Part 1 general requirements	The panel had requested for additional time for the study of IEC 61869-1:2023 in the 23 rd ETD 34 sectional committee meeting. The committee considered the request and decided to provide the working panel ETD 34/P2 'three months' time to complete the study of IEC 61869-1:2023 and prepare the draft for the revision of IS 16227 (Part 1):2016/IEC 61869-1:2007 in case any changes have been made in IEC 61869-1:2023.	The convenor of the panel Sh. G V Akre informed that the study of IEC 61869-1:2023 is under progress and requested for providing additional time for completion of the same. The committee noted and requested working panel 02 to complete the study of IEC 61869-1:2023 and submit a report on the changes in the revised standard by 30.11.2024.
6	Sl. No. 10 of table under Item No. 10	New Work Item Proposal (NWIP) for formulation of Indian Standard on Maintenance and Installation of Current Transformers and Potential Transformers.	It was decided in the 23 rd ETD 34 Sectional Committee meeting to constitute a working panel constituting of the following members for the preparation of working draft for the formulation of Indian Standard on "Maintenance and Installation of Instrument Transformers".	The member secretary presented the draft submitted by working panel P/03 for the review of the committee. Sh. V. Rajasekharan Nair highlighted the contents of the draft. The draft was reviewed by the committee and it was noted that the scope was

			<p>a) <i>Shri Akre G.V (M/s Hivoltrans, Halol, Gujarat)-Convenor</i></p> <p>b) <i>Shri Mayank Yadav (M/s GE (T & D) India Limited, Noida)</i></p> <p>c) <i>Dr. A. J. Chavda (M/s GETCO, Vadodara)</i></p> <p>d) <i>Shri V. Rajasekharan (M/s Instrans Engineering and Manufacturing Pvt. Ltd, Bengaluru)</i></p> <p>e) <i>Shri Chetas Parikh (M/s Narayan Powertech Pvt. Ltd, Vadodara)</i></p> <p>f) <i>Shri S.K. Sharma (M/s Nortex, Jokhabad)</i></p> <p>g) <i>Shri S B R Rao (M/s PGCIL, Gurugram)</i></p> <p>The panel was requested to Prepare the working draft within 3 months.</p>	<p>missing. The committee requested working panel P/03 to include the foreword, scope, references, terminology in the draft. Further, the committee also requested the panel to elaborate the installation and maintenance procedures as per the existing practice, review the pre-commissioning testing specified in the draft and submit the updated draft after incorporating the inputs provided during the meeting by 31.10.2024.</p>
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Item 5 PRESENT POSITION OF WORK

The committee noted the Programme of work of ETD 34 Sectional Committee as given in Annex 7 of the agenda.

Item 6 REVIEW OF INDIAN STANDARDS FOR REVISION/REAFFIRMATION

6.1 The committee reviewed the List of Indian Standards due for review given in Annex 8 of the Agenda.

6.2 Indian Standards adopted from IEC which are due for review:

a. The committee reviewed and noted the status of the list of Indian Standards adopted from IEC which are due for review as per Annex 9 of the agenda.

b. The committee decided to constitute a Working Panel for the revision of IS 16227 (Part 6):2018 in consultation with the chair.

Item 7 COMMENTS RECEIVED ON INDIAN STANDARDS UNDER ETD 34 INSTRUMENT TRANSFORMERS SECTIONAL COMMITTEE

Sl. No.	IS No. & Title	Commentator	Comments	Decision taken in last meeting.	Remarks
1	IS 16227 (Part 4): 2015/ IEC 61869-4:2013-	M/s MGVCL, Vadodara	Applicability on 11kV CTPT unit (Three Single Phase	The committee had decided to seek clarification from IEC TC 38 regarding	Member Secretary informed that the clarification is being sought from

	Instrument transformers Part 4 additional requirements of combined transformers		CTs and One Three Phase PT) since IS 16227 (Part 4) does not specifically applicable to combined CTPT unit having three single phase CTs and one three phase PT.	applicability of IS 61869-4:2013 on the combined Instrument transformers unit with the combination of Three Single Phase CTs and One Three Phase PT against the comments on IS 16227 (Part 4):2015/IEC 61869-4:2013 received from M/s MGVCL, Vadodara since IS 16227 (Part 4):2015 is an identical adoption of IEC 61869-4:2013 and the applicability of IEC 61869-4:2013 on the combined Instrument Transformers other than the combination of 1 CT and 1 PT is not specified in the said IEC standard.	IEC 38 on IEC 61869-4:201. The committee noted.
2	IS 2705 (Part 1):1992-Current transformers - Specification: Part 1 general requirements (Second Revision)	Central Electricity Authority (CEA), New Delhi	It is to be informed that IS 2705 (Current Transformers-Specification) may be withdrawn after release of IS 16227. IS 2705 part-1 being still active. This is creating conflict for manufacturing and type testing. In this regard, instruction may be circulated to all concerned to stop using IS 2705 in testing and others.	The committee had decided to withdraw IS 2705 (Part 1):1992 (Current Transformers-Specification: Part 1 general requirements) since another standard i.e. IS 16227 (Part 1):2016/IEC 61869-1:2007 (Instrument Transformers: Part 1 general requirements) has already been published and is in use at present.	Member Secretary informed that the approval for withdrawal of IS 2705 (part 1):1992 has been received from the Electrotechnical Divisional Council Chairperson and the same is under progress. The committee noted.

Item 8 PROPOSAL RECEIVED THROUGH ANNUAL STANDARDIZATION PLAN (2024-2025) OF DEPARTMENT OF ATOMIC ENERGY, MUMBAI FOR FORMULATION OF INDIAN STANDARD

Sl. No.	Subject	Decision taken during last meeting	Remarks
1	Fly Back Transformers	The committee had decided to collect necessary inputs on the new work item proposal i.e. Formulation of Indian Standard on 'Fly Back transformers' received from Department of Atomic Energy, Mumbai before taking decision on the same.	Member Secretary informed that inputs are being sought from the Department of Atomic Energy, Mumbai. The committee noted.

Item 9 INTERNATIONAL ACTIVITIES

9.1 The committee noted the Programme of Work (POW) of IEC TC 38 as given in Annex 10 of the agenda.

9.2 The committee noted the balloting done since last meeting as given in Annex 11 of the Agenda.

9.3 Identification of IEC publications for harmonization

The committee noted the list of published IEC Standards corresponding to IEC TC 38 as given in Annex 12 of the agenda and decided to review all Indian standards which have been adopted from the IEC Standards; when the corresponding IEC standards get revised.

9.4 Review of Nominated Experts in IEC TC 38

The committee reviewed the list of nominated experts in the working groups under IEC 38 as given in Annex 13 of the agenda and nominated the following experts as given in the table below.

Sl. No.	Working Group No.	Title of Working Group	Name and organisation of the experts designated
1	WG 37	Specific Clauses for Electronic Voltage Transformers (future IEC 61869-7), for Electronic Current Transformers (future IEC 61869-8) and Digital Interface for Instrument Transformers (future IEC 61869-9).	a. Mr. Mayank Yadav, GE (T & D) India Limited, Noida b. Mr. Pradeep Deshpande, Gilbert and Maxwell Transformers Pvt. Ltd, Nashik. c. Mr. Mahesh Dorlikar, Hitachi Energy India Ltd., Bangalore d. Mr. Vrajesh J Desai, In Individual Capacity
2	WG 39	IEV 321	Mr. Mayank Yadav, GE (T & D) India Limited, Noida
3	WG 54	Instrument Transformers integrated with other devices	Mr. Pradeep Deshpande, Gilbert and Maxwell Transformers Pvt. Ltd, Nashik.
4	MT 58	Maintenance of IEC 61869-2, IEC 61869-3 and IEC 61869-5	a. Mr. G. V Akre, Hivoltrans, Gujarat b. Ms. Geeta Joshi, Hitachi Energy India Ltd., Bangalore c. Mr. Mahesh Dorlikar, Hitachi Energy India Ltd., Bangalore d. Mr. Chetas Parikh, Narayan Powertech Pvt. Ltd, Vadodara

			e. Mr. Vrajesh J Desai, In Individual Capacity
5	MT 59	Maintenance of IEC 61869-14 and IEC 61869-15	a. Mr. Mayank Yadav, GE (T & D) India Limited, Noida b. Mr. Sunil Nannaware, Hitachi Energy India Ltd., Bangalore

9.5 Review of the Projects under IEC TC 38 and designation of experts

The committee reviewed the following projects under IEC TC 38 and designated the following experts mentioned in the table below against them.

Sl. No.	Project No.	Title of the Project	TC	WG/MT/PT	Level of Interest (High/Medium/Low)	Designated Expert
1	38/792/NP	Instrument transformers - Part 201: General requirements for Instrument Transformers for low voltage applications (≤ 1000 V AC and 1500 V DC)	TC 38		High	a. Mr. Mayank Yadav, GE (T & D) India Limited, Noida b. Mr. Chetas Parikh, Narayan Powertech Pvt. Ltd, Vadodara
2	38/793/CD	Instrument transformers - Part 7: Specific requirements for electronic Voltage Transformers	TC 38	WG 37	Medium	a. Mr. Mayank Yadav, GE (T & D) India Limited, Noida b. Mr. Vrajesh J Desai, In Individual Capacity
3	38/794A/CD	Instrument transformers - Part 8: Specific requirements for Electronic Current Transformers	TC 38	WG 37	Medium	a. Mr. Mayank Yadav, GE (T & D) India Limited, Noida b. Mr. Vrajesh J Desai, In Individual Capacity
4	38/802/CD	Instrument Transformers integrated with other devices - Requirements and tests	TC 38	WG 54	Medium	Mr. Pradeep Deshpande, Gilbert and Maxwell Transformers Pvt. Ltd, Nashik
5	38/797/CD	Instrument transformers - Part 14: Additional requirements for current transformers for DC applications	TC 38	MT 59	Medium	Mr. Mayank Yadav, GE (T & D) India Limited, Noida
6	38/798/CD	Instrument transformers - Part	TC 38	MT 59	Medium	a. Mr. Mayank Yadav, GE (T & D)

		15: Additional requirements for voltage transformers for DC applications				India Limited, Noida. b. Mr. Sunil Nannaware, Hitachi Energy India Ltd., Bangalore
7	38/799/CD	Instrument transformers - Part 2: Additional requirements for current transformers	TC 38	MT 58	High	a. Mr. G. V Akre, Hivoltrans, Gujarat b. Ms. Geeta Joshi, Hitachi Energy India Ltd., Bangalore c. Mr. Chetas Parikh, Narayan Powertech Pvt. Ltd, Vadodara d. Mr. Vrajesh J Desai, In Individual Capacity
8	38/800/CD	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers	TC 38	MT 58	High	a. Mr. G. V Akre, Hivoltrans, Gujarat b. Mr. Chetas Parikh, Narayan Powertech Pvt. Ltd, Vadodara c. Mr. Vrajesh J Desai, In Individual Capacity
9	38/801/CD	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers	TC 38	MT 58	High	a. Mr. Mahesh Dorlikar, Hitachi Energy India Ltd., Bangalore b. Mr. Vrajesh J Desai, In Individual Capacity
10	38/715/CD	Amendment 1 - Instrument transformers - Part 9: Digital interface for instrument transformers	TC 38	WG 37	Medium	a. Mr. Pradeep Deshpande, Gilbert and Maxwell Transformers Pvt. Ltd, Nashik b. Mr. Mahesh Dorlikar, Hitachi Energy India Ltd., Bangalore

Item 10 DATE AND PLACE FOR THE NEXT MEETING

The next meeting will be scheduled in the next quarter as per the Annual Plan of Action for Standardization (APS) (2024-2025) in consultation with the Chair. However, meetings in addition to that proposed in the meeting calendar of APS (2024-2025) may also be organised in consultation with the chair as per the exigency of work.

Item 11 TERMS OF REFERENCE (TORs) FOR RESEARCH AND DEVELOPMENT

The member secretary requested the committee to submit Research and Development Proposals wherever necessary for the formulation of New Indian Standards or Review of Existing Indian Standards.

Item 12 ANY OTHER BUSINESS

There being no other business, the meeting ended with a vote of thanks to the chair.