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BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Instrumentation Transformer Sectional Committee, ETD 34	21th	Wednesday	22nd JUNE 2022	1030h	Join meeting

CHAIRMAN: Shri Dinkar Devate **MEMBER SECRETARY**: Shri Ashok Kumar

Item 0 GENERAL

0.1 WELCOME & OPENING REMARKS BY THE CHAIRMAN

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The minutes of the 20th meeting of Instrumentation Transformer Sectional Committee, ETD 34, held on 15 July 2022 virtually, were circulated and No comments were received.

The Committee may formally confirm the minutes.

Item 2 COMPOSITION OF INSTRUMENTATION TRANSFORMER SECTIONAL COMMITTEE, ETD 34

2.1 The present composition of Instrumentation Transformer Sectional Committee, ETD 34 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 ACTIONS ARISING OUT OF PREVIOUS MEETING

S. No.	Item	Decision Taken	Action

1)	**IEEMA** was requested to seek willingness/fresh nominations of the following non-participating organizations: a) JSL Industries Ltd. b) Lustre Engineering Corporation c) Paras Power Engg. Pvt. Ltd. d) Prayog Electricals Pvt. Ltd. e) Silkans Electrical Mfg. Co. Pvt. Ltd. f) Vamet Electric Pvt.Ltd.	IEEMA was requested to seek willingness/fresh nominations of the following non-participating organizations.	Mail sent to IEEMA to seek fresh nominations from these organization. Nominations received for JSL Industries, Lustre Engineering. Committee may discuss.
2)	Preparation of new standard on "Condition Monitoring of Instrument Transformers". The Committee observed that the subject is of utmost importance in the present scenario and as such, draft need to be prepared at the earliest. The Committee had re-constituted the working group as per the following details: **i)** Shri G.V. Akre, M/s Hivoltrans - Convener ii) Ms Seema Soni, PGCIL **iii)** Shri Uday Sanvatsarkar, M/s CG Limited **iv)** Ms. Geetha Joshi, M/s ABB India Ltd. **v)** Shri Swaraj Kumar Das, CPRI vi) Shri Kiran Kelapure, YMPL vii) Shri Shailesh Patel, ERDA viii) Shri Y.V. Joshi, GETCO	The working group was to submit the first draft to BIS before commencement of next meeting.	Mail sent to working group requesting them to submit draft proposal on new standard.
3)	The provisions of the following Indian Standards due to technological up-gradation in the corresponding product standards: a) **IS 4146:1983**- Application guide for voltage transformers b) **IS 4201:1983** -Application guide for current transformers c) **IS 5547:1983** - Application guide for capacitor voltage transformers d) **IS 6949:1973** -Summation current transformers	The committee requested panel to provide the working draft to BIS before commencement of next meeting.	Mail sent to panel requesting them to submit draft proposal on corresponding product standards. Committee may discuss

4)	**Comments on IS 16227 (Part 1).** The Chairman requested the members to examine and furnish their comments on applicability of certain type tests (like Internal arc test, Enclosure tightness test at low and high temperatures, Gas dew point test and Fire hazard test) to specific type of CTs/PTs whether it should be defined/clarified in these referred standards. During the last meeting, the Committee had discussions on the applicability and availability oftest facilities for type tests like Internal arc test, Enclosure tightness test at low and high temperatures, Gas dew point test and Fire hazard test. It was pointed out that testing facility for internal arc test is available at CPRI.	The Committee again requested members to forward their technical comments in this regard to IEEMA who would consolidate and send the same to BIS for consideration and for onward submission to IEC TC 38. IEEMA is also requested to consolidate data about available testing facilities in India for these special tests.	Mail sent to committee members requesting them to examine and furnish their comments on IS 16227 (Part 1). Reply awaited. Committee may discuss.

Item 4 PRESENT POSITION OF WORK

The present position of work under the scope of **ETD 34** is given at **Annex 2.**

The Committee may note.

Item 5 Review of Published Standards for Revision/Reaffirmation

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. Following Indian Standards are due for review:

Sl. No.	*IS No.*	*Title*
1.	IS 4146 : 1983	Application guide for voltage transformers First Revision
2.	IS 4201 : 1983	Application guide for current transformer First Revision
3.	IS 5547 : 1983	Application guide for capacitor voltage transformers First Revision
4.	IS 6949 : 1973	Specification for summation current transformers
5.	IS/IEC 60044-7 : 1999	Instrument transformers Part 7 electronic voltage transformers

Item 6 IMPLEMENTATION OF INDIAN STANDARDS

In order to derive maximum advantage of National Standards, members are requested to adopt these standards in their respective organizations and bring to the notice of BIS DG any difficulty that they may experience in implementation. The feedback would enable the concerned Sectional Committee to review the standards and eliminate wherever possible the bottlenecks in the implementation.

The Committee may note.

Item 7 INTERNATIONAL ACTIVITIES

Program of Work and List of Published Standards

The details of published standards and program of work of IEC/TC 38 is given in **Annex 3.** The publications marked in blue color indicate that ISs do not exist corresponding to these publications.

The Committee may consider.

Item 8 FUTURE PLANS AND STRATEGIES

The Committee may deliberate upon the future plans and strategies to be adopted by the ETD 34 during the next 5 years aiming at contribution in related standardization activity at national and international level.

New Subjects

As per the latest policy guidelines, before any subject is taken up for formulation of National Standard, the following issues are to be examined by BIS:

i) Whether the subject is financed by the proposer;
ii) Saleability of the standard; and
iii) Social needs with regards to safety, health and environment.

Only after assessing the above aspects, it will be possible for BIS to consider/take up any subject for formulation of Indian Standard.

The Committee may note.

Item 9 WTO-TBT ENQUIRY POINT

World Trade Organization (WTO) is the International Organization dealing with global rules of trade between nations. The Technical Barriers to Trade Agreement (TBT) tries to ensure that Regulations, Standards, Conformity Assessment procedures do not create unnecessary obstacles to trade. Manufacturers and exporters of each country need to know about the latest standards and technical regulations in their prospective markets. To help ensure that this information is made available conveniently, all WTO member governments are required to establish National Enquiry Point. India is a signatory to the WTO TBT Agreement. Under this Agreement. India has to fulfil certain obligations such as establishing an enquiry point and transparency of its standards and its regulations. BIS functions as the enquiry point as nominated by Ministry of Commerce, the dealing Ministry with WTO.

As the WTO TBT Enquiry Point, BIS answers all the reasonable enquiries pertaining to Technical Regulations . Standards and Conformity Assessments procedures addressed to it from the Enquiry Points of other countries. It also serves as the Information Centre within the country. Additionally, BIS also disseminate the TBT Notifications of other member bodies to the other National Stakeholders.

The awareness regarding TBT Notifications is lacking among various stakeholders in India and as a result India is not sending its comments on draft notifications by other countries, which may be of trade interest to India. As a signatory of WTO-TBT agreement, there is a greater need for us to be aware of the TBT notifications issued by different countries in order to protect our interest.

BIS has outsourced the activity of WTO-TBT Enquiry Point Services .The outsourced agency, CERPA (Centre for Research Planning and Action) disseminates the TBT Notifications of other countries to the Indian Stake holders with a view to seek their comments and taking up the same at appropriate forum .The stakeholders are expected to examine the notifications on the following aspects :

1. Are the notifications in accordance with International Standards?

2. Are they stricter than the International Standards?
3. Are they stricter than the International Standards then necessary to meet the legitimate objective of:
   - Protection of human health or safety
   - Animal or Plant life or health
   - Environmental Protection

The BIS technical committees have also been identified as stakeholders for the TBT notifications and relevant notifications are being disseminated to them. The committee members should examine the TBT Notifications with a view to protect Indian trade interest.

The e-mail address of and BIS Enquiry Point is as follows**:**

1. **info@bis.gov.in**
2. **Website :www.bis.gov.in**

The Committee may note.

Item 11 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 web site http://www.bis.org.in. The organizations willing to depute their personnel for training May kindly go through the appropriate programme and get them registered to undergoing training.

The Committee may note.

Item 12 DATE AND PLACE OF NEXT MEETING

Item 13 ANY OTHER BUSINESS

Annex -1

Composition of ETD 34 Instruments Transformers

S.No.	Organization	Name	Email	Role	attendance
1.	IN INDIVIDUAL CAPACITY	Shri Dinkar Devate	dinkar.devate@gmail.com	Chairman	3/3
2.	ABB India Limited, Bengaluru	Ms. Geetha Joshi	geetha.joshi@in.abb.com	AM	3/3
		Shri Ankit Joshi	ankit.joshi@in.abb.com	PM	
		Ms. Diviya Taneja	-	AM	
3.	Areva T and D India Limited, Noida	Shri S. Mohan	mohan.srinivasarao@arevaed.com	PM	0/3
		Shri Subhash Kulkarni	subhash.kulkarni@arevaed.com	AM	
4.	Bharat Heavy Electrical Limited,New Delhi	Shri P. V. K. Bara	pvk_bara@bheljhs.co.in	AM	1/3
		Shri Kulamani Naik	kmnaik@bhel.in	PM	
5.	Brihan Mumbai Electric Supply andTransport Undertaking,Mumbai	S.N.Bhinge	dcerc@bestundertaking.com	AM	0/3
		Milind Kamble	supdtfsward@bestundertaking.com	PM	
6.	Central Board of Irrigation and Power, New Delhi	Shri I. B. Srivastava	srivastavaib57@gmail.com	AM	0/3
		Shri Mahesh Kumar	mahesh@cbip.org	PM	
7.	Central Power Research Institute,Noida	Shri Swaraj Kumar Das	skdas@cpri.in	AM	2/3
		Shri S. Bhattacharya	bhattacharya@cpri.in	PM	
8.	CG Power and Industrial Solutions,Mumbai	Dr. Uday Sanvatsarkar	uday.sanvatsarkar@cgglobal.com	AM	3/3
		Shri Shailesh Mahajan	shailesh.mahajan@cgglobal.com	AM	
		Shri Santosh Bhong	santosh.bhong@cgglobal.com	PM	
9.	CSIR - National Physical Laboratory, New Delhi	Dr M. A. Ansari	ansari@npindia.org	PM	1/3
10.	Defence Researchand Development Organization, Research Centre Imarat, Hyderabad	Shri Arvind Kumar	adepsi.dti@gmail.com	AM	0/3
		Shri Sujeet Mishra	psi.dti@gmail.com	PM	
11.	ERDA, Vadodara	Shri Ravi Nandwana	ravi.nandwana@erda.org	PM	3/3
		Shri Shailesh Patel	shailesh.patel@erda.org	AM	
12.	Gilbert And Maxwell Transformers Private Limited, Nashik	Shri Pradeep Deshpande	deshpandepa@hotmail.com	PM	2/3

13.	Gujarat Energy Transmission Corporation Limited, Vadodara	Shri B.P Soni	seengg.getco@gebmail.com	PM	3/3
		Ms. Rashmi Chaudhari	jeengg7.getco@gebmail.com	AM	
14.	Hivoltrans, Halol,Gujarat	Shri Shitij Khattar	shitij@vishalgroup.in	AM	3/3
		Shri Chowdhury Roy.A.	aroy@hivoltrans.com	AM	
		Shri Akre G.V.	gvakre@hivoltrans.com	PM	
15.	Indian Electrical and Electronics Manufacturers Association, New Delhi	Shri Uttam Kumar	uttam.kumar@ieema.org	AM	3/3
		Shri Pragati Sohoni	pragati.sohoni@ieema.org	AM	
		Shri J. Pande	j.pande@ieema.org	PM	
16.	Institute for Design of Electrical Measuring Instruments, Mumbai	Shri Nishant Pawaskar	ecl@idemi.org;	AM	2/3
		Shri Pradeep Gujarathi	pd@idemi.org	PM	
17.	Instrans Engineering and Manufacturing Private Limited,Bengaluru	Shri V. Rajasekharan Nair	instrans@bir.vsnl.net.in	AM	2/3
		Shri Kishor S.Jinsiwale	instrans@bir.vsnl.net.in	PM	
18.	JSL Industries Limited, Anand	Shri A. D. Mistry	admistry@jslmogar.com	PM	0/3
		Shri V. N. Prajapati	vnprajapati@jslmogar.com	AM	
19.	Kapco Electric Private Limited,Noida	Shri S. D. Kulkarni	sdkulkarni@kapco.in	PM	2/3
20.	Karnataka Power Transmission Corporation Limited, Bengaluru	Shri K. G. Romesh	-	PM	0/3
		Shri Krishnamoorthy	-	AM	
21.	Lustre Engineering Corporation, Chandigarh	Shri Tushar Khanvilkar	lustre@lustreengineering.com	AM	2/3
		Shri Vikas B. Patharkar	vikas@lustreengineering.com	PM	
22.	Madhya Pradesh Rajya Van Vikas Nigam Limited,Bhopal	Shri Shivara Singh	-	PM	0/3
23.	Maharashtra State Electricity Board, Chandrapur	Shri Sharadchandra Ambadas	setccvashi@rediffmail.com	PM	0/3
24.	Maharashtra State Electricity	Shri Madhusudan	setrg@mahatransco.in	AM	0/3

	Transmission Company, Mumbai	Vishwanathrao			
25.	Ministry of Power, Central Electricity Authority of India,New Delhi	Shri Pawan Gupta	gpawan64@gmail.com	AM	2/3
		Smt Vandana Singhal	vandana1504@yahoo.com	PM	
26.	MP Power Transmission Company Limited, Jabalpur	Shri Pawan Gupta	—	AM	1/3
		Shri Verma R.K.	secympeb@bom6.vsnl.net.in	PM	

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Annex-2

ETD34: Instrument Transformers

Scope: To prepare standards and application guides for instrument transformers

Liaison: IEC TC 38 - Instrument transformers - Principle (P)

Standards Published

Sl. No.	*IS No.*	*Title*
1.	IS 4146 : 1983	Application guide for voltage transformers First Revision
2.	IS 4201 : 1983	Application guide for current transformer First Revision
3.	IS 5547 : 1983	Application guide for capacitor voltage transformers First Revision
4.	IS 6949 : 1973	Specification for summation current transformers
5.	IS 16227 (Part 1) : 2016 IEC 61869- 1:2007	Instrument transformers Part 1 general requirements
6.	IS 16227 (Part 2) : 2016	Instrument transformers Part 2 additional requirements for current transformers
7.	IS 16227 (Part 3) : 2015 iec61869-3	Instrument transformers Part 3 additional requirements for inductive voltage transformers
8.	IS 16227 (Part 4) : 2015	Instrument transformers Part 4 additional requirements for combined transformers
9.	IS 16227 (Part 5) : 2015 iec61869-5	Instrument transformers Part 5 additional requirements for capacitors voltage transformers
10.	IS 16227 (Part 6) : 2018 IEC 61869- 6: 2016	Instrument transformers Part 6 additional general requirements for low - Power instrument transformers
11.	IS 16227 (Part 9) : 2018 IEC 61869- 9: 2016	Instrument transformers Part 9 digital interface for instrument transformers
12.	IS 16227 (Part 100) : 2018 IEC 61869-100	Instrument transformers Part 100 guidance for application of current transformers in power system protection
13.	IS 16227 (Part 102) : 2018 IEC	Instrument transformers Part 102 ferroresonance oscillations in

	TR 61869-102 : 2	substations with inductive voltage transformers
14.	IS 16227 (Part 103) : 2018 IEC/TR 61869-103 : 2012	Instrument Transformers part 103 The use of instrument Transformers for power quality Measurement
15.	IS 16855 (Part 1) : 2018 IEC 62689- 1: 2016	Current and voltage sensors or detectors to be used for fault passage indication purposes Part 1 general principles and requirements
16.	IS 16855 (Part 2) : 2018 IEC 62689- 2 : 2016	Current and Voltage Sensors or Detectors to be used for Fault Passage Indication Purposes part 2 System Aspects
17.	IS 16855 (Part 100) : 2019 IEC 62689-100: 2016	Current and voltage sensors or detectors to be used for fault passage indication purposes Part 100 requirements and proposals for the is iec 61850 series data model extensions to support fault passage indicators applications
18.	IS/IEC 60044 (Part 7) : 1999 IEC 60044-7	Instrument transformers Part 7 electronic voltage transformers
19.	IS/IEC 60044 (Part 8) : 2002 IEC 60044-8:2002	Instrument transformers Part 8 electronic current transformers

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Annexure-3

Program of work of IEC TC 38

Standards Published

IEC	Edition	Title
IEC 60044-7:1999	Edition 1.0	Instrument transformers - Part 7: Electronic voltage transformers
IEC 60044-8:2002	Edition 1.0	Instrument transformers - Part 7: Electronic current transformers
IEC 61869-1:2007	Edition 1.0	Instrument transformers - Part 1: General requirements
IEC 61869-2:2012	Edition 1.0	Instrument transformers - Part 2: Additional requirements for current transformers
IEC 61869-3:2011	Edition 1.0	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers
IEC 61869-4:2013	Edition 1.0	Instrument transformers - Part 4: Additional requirements for combined transformers
IEC 61869-4:2013/COR1:2014	Corrigendum 1	Corrigendum 1 - Instrument transformers - Part 4: Additional requirements for combined transformers
IEC 61869-5:2011	Edition 1.0	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers
IEC 61869-5:2011/COR1:2015	Corrigendum 1	Corrigendum 1 - Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers
IEC 61869-6:2016	Edition 1.0	Instrument transformers - Part 6: Additional general requirements for low-power instrument transformers
IEC 61869-9:2016	Edition 1.0	Instrument transformers - Part 9: Digital interface for

		instrument transformers
IEC 61869-10:2017	*Edition 1.0*	*Instrument transformers - Part 10: Additional requirements for low-power passive current transformers*
IEC 61869-11:2017	*Edition 1.0*	*Instrument transformers - Part 11: Additional requirements for low power passive voltage transformers*
IEC 61869-13:2021	*Edition 1.0*	*Instrument transformers - Part 13: Stand-alone merging unit (SAMU)*
IEC 61869-14:2018	*Edition 1.0*	*Instrument transformers - Part 14: Additional requirements for current transformers for DC applications*
IEC 61869-15:2018	*Edition 1.0*	*Instrument transformers - Part 15: Additional requirements for voltage transformers for DC applications*
IEC TR 61869-100:2017	Edition 1.0	Instrument transformers - Part 100: Guidance for application of current transformers in power system protection
IEC TR 61869-102:2014	Edition 1.0	Instrument transformers - Part 102: Ferroresonance oscillations in substations with inductive voltage transformers
IEC TR 61869-103:2012	Edition 1.0	Instrument transformers - The use of instrument transformers for power quality measurement
IEC 62689-1:2016	Edition 1.0	Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 1: General principles and requirements
IEC 62689-2:2016	Edition 1.0	Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 2: System aspects
IEC TR 62689-100:2016	Edition 1.0	Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 100: Requirements and proposals for the IEC 61850 series data model extensions to support fault passage indicators application

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