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BUREAU OF INDIAN STANDARDS

MINUTES

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Low Voltage Switchgear and Controlgear Sectional Committee, ETD 07	50	Wednesda y	20 Dec 2023	1130h	Virtual (BIS Webex)

CHAIRMAN: Shri Anupam Awasthi

MEMBER SECRETARY: Shri Ashok Kumar

Members present:

S.No	Organization	Name	Email
1.	Central Power Research Institute	Mr. Anupam Awasthi	awas1961@gmail.com
2.	ABB India Limited	Mr. Dev Chandra Kuril	devchandra.kuril@In.abb.com
3.	Bharat Heavy Electrical Limited	Mr. Debasisa Rath	debasisa@bhel.in
4.	Calcutta Electric Supply Corporation Limited	Mr. Bratin Banerjee	bratin.banerjee@rpsg.in
		Mr. B R Vasudevamurthy	brvmurthy@cpri.in
	Central Power Research	Mr. N Maheswara Rao	mahesh@cpri.in
5.	Institute	Mr. Swaraj Kumar Das	skdas@cpri.in
	Institute	Ms. Girija G	girija@cpri.in
		Ms. Sumbul Munshi	sumbul@cpri.in
6.	Consumer Guidance Society of India	Mr. Goutam Bhatia	goutambhatia@rediffmail.com
7.	Electrical Research and Development Association	Mr. Y.L. Pathan	yipathan@erda.org
8.	Elmex Controls Private Limited	Mr. Robin Virani	rhv@elmex.net
9.	Engineers India Limited	Ms. Shirali Aggarwal	shirali.aggarwal@eil.co.in
10.	Hager Electro Private Limited	Mr. Shirish Zope	shirish.zope@hagergroup.com
		Mr. Viral Parmar	parmar.viral@havells.com
11.	Havells India Limited	Mr. Ranbir Singh	ranbir1.singh@havells.com
		Mr. Manoj Kumar Gupta	manojkumar.gupta@havells.com
10		Mr. Anil Kumar Pandit	anil.pandit@iitbombay.org
12.	In Personal Capacity	Mr. Gajendra Babu	gbabu1951@gmail.com
	Indian Electrical and		
13.	Electronics Manufacturers	Mr. Navdeep Singh	navdeep.singh@ieema.org
	Association,		
14.	Jasper Engineers Private Limited,	Mr. Rudra Satapathy	rudra_satapathy@bchindia.com
15.	Larsen and Toubro Limited	Mr. Ritesh Kumar Patel	riteshkumar.Patel@Intebg.com
16.	NTPC Limited	Mr. Rajesh Sharma	rajeshsharma02@ntpc.co.in



17.	Panasonic Life Solutions India Private Limited	Mr. Vijay Wedhane	vijay.wedhane@in.panasonic.com
18.	Schaltbau India Private Limited	Mr. Shahid	engg@schaltbauindia.in
19.	Schneider Electric India Private Limited	Mr. Saravanan Shanmugam	saravanan.shanmugam1@se.com
		Mr. Anilesh K.	anilesh.kaduthanum@se.com
20.	Siemens Limited	Mr. Vijay Wanwe	vijay.wanwe@siemens.com
20.	Stemens Linited	Mr. Rahul Srivastava	srivastava.rahul@siemens.com
21.	Small Scale MCD Manufactures Welfare Association,	Mr. Pramod K Jain	pkjain2503@gmail.com
22.	Tata Consulting Engineers Limited	Mr. P K Arun Kumar	pkarunkumar@tce.co.in
23.	UL India Private Limited	Mr. Madhusudan BK	madhusudhan.bk@ul.com
24.	Western India Switchgear Manufacturers Association	Mr. Dhaval Shah	info@kewelectricals.com
25.	DEVELOPMENT COMMISSIONER MICRO-SMALL AND MEDIUM ENTERPRISES	Mr. Manoj Kumar	manojgu1970@gmail.com
26.	Central Electricity Authority, New Delhi	Ms. Meena Hooda (Guest)	meenahooda2030@gmail.com

Item 0 GENERAL

0.1 WELCOME & OPENING REMARKS BY THE CHAIRMAN

The Chairman welcomed the members present in the meeting. He highlighted the limited participation from India in IEC meetings and encouraged committee members to actively participate in IEC technical committees and their Working Group meetings. Additionally, he urged all committee members to meticulously review IEC standards during the draft stage. This approach is essential to address any India-specific modifications at the early stages of the IEC standard development. He appreciated the efforts of various working groups of the committee actively contributing to the process of standardization and hoped for a fruitful discussion on all Agenda points.

0.2 Member Secretary welcomed the members to the meeting and briefed the members regarding various agenda points which required detailed discussions and solicited the co-operation of the members for completing the agenda in time.

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The committee confirmed the minutes of the 29th meeting of Low Voltage Switchgear and Controlgear Sectional Committee, ETD 07, held on 27 July 2023 virtually.

Item 2 COMPOSITION OF LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR SECTIONAL COMMITTEE, ETD 07

- **2.1** The committee noted the information given in the agenda.
- **2.2** The following organizations to provide updated nominations:
 - a) ABB India Limited, Bengaluru



- b) Central Electricity Authority, New Delhi
- c) Central Power Research Institute, Bengaluru
- d) Development Commissioner Micro-Small and Medium Enterprises

2.3 ERDA to recommend representation for convenership of WG 4 '*For review of IEC SC 121B* Ballot documents'.

2.4 Mr. Shri Shahid M/s Schaltbau India Private Limited to be added in WG 4.

2.5 The committee deliberated on co-option requests received through the Standardization portal. The following decisions were reached:

- a) It was decided to co-opt following organizations:
 - i) Eaton Power Quality Private Limited, Puducherry
 - ii) Eaton India Innovation Center, Pune
 - iii) Socomec India (P) Ltd
 - iv) National Federation of Engineers for Electrical Safety
- **b)** Mr. Amit Kumar M/s BASF India Ltd., submitted the co-option request in his individual capacity. After deliberation, it was decided to request Mr. Amit Kumar to resubmit the co-option request on behalf of his organization, accompanied by an official company authorization letter.

Item 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

SI. No	Item of Previous	Action reported in	Action Reported in	Decision Taken
	Meeting	the last meeting	the agenda	
1.	Adoption of IEC	The committee discussed	The response received	The committee
	60947-7-1: 2009	the response received from	from ERDA, UL India	decided to Wide
	and	the Elmex Controls Private	Pvt. Ltd. and CPRI	circulate the IEC
	IEC 60947-7-2: 2009	Limited, Vadodara regarding	regarding testing	60947-7-1: 2009 and
		identical adoption of IEC	facilities for IEC	IEC 60947-7-2: 2009
		60947-7-1: 2009 and IEC	62947-7-1: 2009 and	for the period of 2
		60947-7-2: 2009 as Indian	IEC	months.
		Standard. Members from	60947-7-2: 2009 are	
		Electrical Research and	given at Annex 2 of	In case no comments
		Development Association,	the agenda.	are received during
		UL India Private Limited and		the wide circulation,
		Central Power Research	The committee may	the documents shall
		Institute are requested to	discuss to adopt these	be finalized for
		kindly review the full scope	IEC standards	printing.
		of these standards and		
		testing facilities and submit		
		the report to BIS within 2		
		months.		



2.	Adoption of IEC	It was decided to circulate	The copy of IEC 62423:	WG-5 was requested
	62423: 2009	the	2009 circulated	to send the
		IEC 62423: 2009 'Type F and	among the committee	consolidated
		Type B residual current	members to kindly	recommendations
		operated circuit-breakers	assess the suitability	assessing the
		with and without integral	of	suitability of
		overcurrent protection for	Implementation of	implementation of
		household and similar uses'	this IEC standard.	IEC 62423: 2009 for
		to all the committee		adoption within 1
		members to review. The WG	No comments	month from the date
		5 and committee members	received from the	of the meeting.
		are requested to kindly	members.	
		assess the suitability of		
		implementation of this IEC	The committee may	
		standard and submit the	discuss to adopt the	
		report to BIS within 1 month	IEC standard.	
		from the date of circulation.		

Item 4 PRESENT POSITION OF WORK

4.1 The committee noted the present position of work under the scope of **ETD 07**.

4.2 The committee also examined the list of IEC standards against which no Indian Standards exist as had been identified by member secretary for consideration of the committee for harmonization. It was decided to allocate the task of initial review of these IEC standards to

- WG 3 (For review of standards under IEC TC 121 and SC 121A),
- WG 4 (For review of standards under IEC SC 121B) and
- WG 5 (For review of standards under IEC SC 23E) (refer Item 7.4 of Minutes of last meeting for WG composition).

These working groups were advised to carry out the assessment of the list of respective IEC committee standards given at Annex 3 of the agenda to:

- a) Assess the suitability of implementation of these IEC standards in India after identical adoption
- b) Testing infra/Feasibility of test
- c) Feedback for making infrastructure changes as per new requirements by manufacturers.

4.1 DRAFTS FINALIZED FOR PRINTING

SI. No.	IS/IEC no.
1	Doc ETD 07 (23677) Revision of IS 12640 (Part 1): 2016



	Residual current operated Circuit Breakers without integral overcurrent protection for
	household and similar uses RCCBs: Part 1 general rules

4.2 DRAFTS FOR FINALIZATION

The committee noted the information given in the agenda.

4.3 DRAFTS FOR APPROVAL FOR WIDE CIRCULATION

SI	IS No.	Decision Taken in the last	Action reported in the	Decision Taken
No.		meeting	agenda	
2.	IS 12640 (Part 2): 2016 Residual current operated circuit - Breakers with integral overcurrent protection for household and similar uses (RCBOs): Part 2 General rules Equivalent IEC: Identical to IEC 61009- 1:2010+AMD1:2012 CSV Latest Base IEC: IEC 61009- 1:2010+AMD1:2012 +AMD2: 2013 CSV	Mr Madhusudan BK, M/s UL India Pvt. Ltd. agreed to prepare a list of changes being introduced by the amendment 2 of IEC within 2 months from the date of meeting. Committee members were requested to examine the list once circulated and provide their comments, if any, on the same within 30 days from the date of circulation. It was decided that in case of receipt of comments within the above mentioned period from committee members, the comments shall be put up for consideration of the committee.	Mr.Madhusudanpreparedthelistofchangesbeingintroducedbytheamendment2ofIEC61009-1:2010 (given atAnnex 5 of the agenda).Thelistofchangescirculatedamongthecommitteemembersfortheir review.Notechnical commentsreceivedfromthemembers.ThecommitteeThecommitteemaydiscusstoadopt(CSV)ofIEC61009-1:2010	decided to Wide circulate the IEC 61009- 1:2010+AMD1:2012 +AMD2: 2013 CSV for the period of 2 months.
3.	IEC 62955: 2018 Residual direct current detecting device (RDC- DD) to be used for mode 3 charging of electric vehicles	The IEC standard was wide circulated as Doc ETD 07 (22727) IEC 62955: 2018 Residual direct current detecting device RDC-DD to be used for mode 3 charging of electric vehicles. Last date of comments - 22 August 2023	The copy of IEC 62955: 2018 circulated among WG 5 members to examine the standard. The comments received from Ather Energy, Member organisation ETD 51 (attached at Annex 6 of the agenda) also circulated among WG 5	WG-5 is requested to kindly review the comments received from Ather Energy and IEC 62955 once again and provide the final recommendation within 2 weeks from the date of the meeting, so that



	members for their kind	decision	can	be
It was decided to circulate the	consideration.	taken	on	the
copy of IEC 62955: 2018		adoption	of	IEC
among WG 5 member to		62955.		
examine the standard.				

4.4 P-DRAFTS UNDER PREPARATION

SI	IS No.	Decision Taken in last	Action reported in the agenda	Decision taken
No.		meeting		
1.	IS 13032: 1991	Working Group WG 6		After deliberate
	'A.c. miniature	was formed with the	Manufactures Welfare	discussion, the
	circuit -	following scope of	, , , ,	committee decided that
	Breaker	work:	review the applicability of IS 13032.	IS 13032 will not be
	boards for	i) IS 13032 being a pre-		withdrawn as the Govt.
	voltages not	2000 standard, the WG		procurement for MCB
	exceeding	6 shall prepare a draft	Mfrs Welfare Association	Distribution Boards is
	1000 V -	revision document of IS	submitted following	done mainly referring to
	Specification'	13032.	recommendations:	this Standard.
		WG 6 composition as decided by the committee is given below: 1. Shri S.Saravanan, M/s Schnieder Electric – Convener 2. Shri Anil Kumar Pandit, In personal capacity (Member), 3. Shri Robin Virani, /s Elmex Controls Private	referring it for MCB Distribution Boards. Moreover Govt procurement for MCB Distribution Boards is also done mainly referring to this Standard (Screen shot enclosed). IS:13032 is specifically made for MCB Distribution Board which is sold as an individual product whereas IS 61439 is mainly referred for tailor made items like Panels or Sub assemblies with or	WG 6 is requested to kindly review and confirm whether all the requirements of IS 13032 are addressed under IS/IEC 61439-3.
		Limited (Member) 4. Shri Anilesh K,	Actually IS:61439 have	
		Schneider Electric India Pvt. Ltd.	not IS:13032. Hence in our opinion IS:13032 should continue as	
		(Member)	separate Standard for MCB Distribution Boards.'	
		The applicability of IS	As IS 13032 is a pre-2000 standard,	
		13032 also discussed during the meeting. Mr	the committee may discuss to revise the standard on priority.	
		Saravanan informed		
		that most of the		
		manufacturers are		
		referring IS/IEC 61439		



Part 1 and Part 3 in	
place of IS 13032.	
Members form Small	
Scale MCB	
Manufactures Welfare	
Association, New Delhi	
are requested to kindly	
review the applicability	
of IS 13032 and submit	
the report to BIS within	
2 months from the	
date of meeting.	

Item 5 Review of Published Standards for Revision/Reaffirmation

5.1 The committee noted the information given in the agenda.

5.2 Action Research Projects (ARP) for Pre-2000 standards

SL no.	IS no. & Title	Decision taken in the last	Action Reported in the	Decision Taken
		meeting	agenda	
1.	IS 5039: 1983	WG 1 requested to kindly	Email sent to WG 1	The committee
	Specification for	review the Action Research	members to kindly review	decided to withdraw
	distribution	Report on IS 5039 and submit its	the action research report	IS 5039: 1983 as the
	pillars for	recommendations for	on IS 5039 and submit its	requirements of IS
	voltages not	consideration of the committee	recommendations for	5039: 1983 are
	exceeding 1000	within 2 months.	consideration of the	already covered in
	V AC and 1200 V		committee.	IS/IEC 61439-5: 2014.
	DC (First	WG 1 Composition		
	Revision)		Smt. Sumbul Munshi M/s	
		1. Smt Sumbul Munshi , CPRI	CPRI and Mr. Rahul	
		(Convener),	Srivastava from Siemens	
		2. Shri Rahul Srivastava,	Limited informed that	
		Siemens Ltd. (Member),	IS 5039:1983 can be	
		3. Shri Anil Kumar Pandit, In	withdrawn and IS/IEC	
		personal capacity (Member),	61439-5: 2014 is more	
		4. Shri Shri Madhusudan BK, UL	suitable to replace it but	
		India Pvt. Ltd. (Member) and	this need to be checked	
		5. Shri Anilesh K, Schneider	carefully and reviewed	
		Electric India Pvt. Ltd.	before proposing as an	
		(Member))	replacement.	



1977 that lot of DIN standards are received report to	o share the
	o BIS on the
Specification for now referred for thermostatic from Metallurgical following	g points:
thermostatic bimetal in place of IS 8588 (Part Engineering Department,	
bimetals: Part 1 1): 1977. BIS regarding amendment 1) Applie	cability of IS
	art 1): 1977
requirements Representatives from IEEMA 2) DIN	•
and methods of are requested to kindly check 'the Standard IS 5478:1969 referred	
tests the followings within their may be superseded by IS industrie	,
	tatic bimetal
	of IS 8588
from the date of meeting: subject, with IS 8588 (Part- (Part 1):	1977
1) being broader in scope	
1) Applicability of IS 8588 (Part and more relevant'. The	committee
1): 1977 discusse	
2) DIN standard referred by Mail sent to committee proposal	l received
industries for thermostatic members to kindly review from I	Metallurgical
bimetal in place of IS 8588 (Part the above proposal. Engineer	ring
1): 1977 Departm	hen t. The
Reply awaited from IEEMA committ	ee members
	d that ETD 07
	ee lacks the
standard referred by necessar	
industries for thermostatic metallur	•
	e to review
	rovide the
	n the clauses
	o metallurgy
	S 8588 (Part
1).	
The	proposal
	from MTD
lacks su	fficient data
and a	comparative
analysis	of the
overlap	between
these	standards.
Therefor	
decided	
	report from
	superseding
	478: 1969 by
IS 858	
	. ,
covering	
	son analysis
of	overlapping



		between standards.	these	2

Item 6 IDENTIFICATION OF RESEARCH & DEVELOPMENT PROJECTS FOR FORMULATION AND REVIEW OF STANDARDS

6.1 The committee discussed the R&D proposal received from Mr. P K Arun Kumar M/s Tata Consulting Engineers Limited, for the formulation of a new standard on '**HIGH AND LOW VOLTAGE CONNECTION SYSTEMS FOR SHIPS**'. The committee members informed that the thorough analysis is required on the feasibility of the project. It was decided to circulate the draft R&D proposal to all the committee members inviting their feedback on the proposal.

Item 7 INTERNATIONAL ACTIVITIES

The committee noted the information given in the agenda.

Item 8 FUTURE PLANS AND STRATEGIES

The new Standards National Action Plan (SNAP) has listed developing Indian Standards on: a. LV Switchgear and Controlgear and b. DC Switchgear as focus areas.

The Sectional Committee agreed to prioritize among different projects and develop Indian Standards on the subjects identified in SNAP. WG3, WG 4 and WG 5 were advised to identify suitable application areas for developing and harmonizing standards on the above subjects.

Item 9 DATE AND PLACE OF NEXT MEETING

It was decided to hold the next meeting of the sectional committee tentatively in July 2024 in physical mode.

Item 10 ANY OTHER BUSINESS

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