

Minutes

Name of the	No. of	Day	Date	Time	Venue
Committee	Meeting				
Power Cables Sectional Committee, ETD 09	30 th	Thursday	16 th May 2024	1100 hrs	Hybrid (Virtual + Physical) BIS HQ

Chairperson: Smt. Meena K.P. Member Secretary: Md. Israfil

Members Present:

Sl.	Organization	Member Name	Member Email
1.	Central Power Research Institute, Bengaluru	Smt. Meena K.P.	meena@cpri.in
2.	Bureau of Indian Standards, New Delhi	Md. Israfil	eetd@bis.gov.in
3.	3 M Electro &	Shri Permeet Singh	psingh@mmm.com
	Communication India Private Limited	Shri Ashish Agarwal	aagrawal@mmm.com
4.	Apar Industries Limited, Mumbai	Shri Amit Kumar Samanta	ak.samanta@apar.com
5.	Bharat Heavy Electrical Limited, New Delhi	Ms. T I Santha	tis@bhel.in
6.	Calcutta Electric Supply	Shri Arnab Guha	arnab.guha@rpsg.in
	Corporation Limited, Kolkata	Shri Prasenjit (Invitee)	prasenjit.karmakar@rpsg.in
7.	Central Electricity	Shri Bhanwar Singh	bhanwar.cea@gov.in
	Authority, New Delhi	Meena	
8.	Central Power Research	Smt. R. Arunjothi	arunjothi@cpri.in
	Institute, Bengaluru	Shri P.V.Satheesh Kumar	pvskumar@cpri.in
		Dr. Neha Adhikari	nehaadhikari2008@gmail.com
9.	Delhi Metro Rail Corporation Limited, Delhi	Shri. Ashish Arora	ashish_delhimetro@yahoo.co.i n
10.	Electrical Research and	Smt. Sheetal Panchal	sheetal@erda.org
	Development Association, Vadodara	Shri Shailesh Patel	shailesh.patel@erda.org
11.	Engineers India Limited,	Shri A. Sai	achutuni.sai@eil.co.in
, and the second	New Delhi	Shri Mehul Basu	mehul.basu@eil.co.in
12.	Finolex Cables Limited,	Shri P.N. khairnar	pkhairnar@finolex.com
	Pune	Shri Bipin Patil	bipin_patil@finolex.com
13.	Finolex J-Power Systems Limited, Pune	Shri Nilesh Bute(Invitee)	nilesh.bute@finolexjpower.co m
		Shri Avijit Chakraborty	avijit_chakraborty@finolexjpo wer.com
		Shri Harshal Toriya	harshal.toriya@finolexjpower. com



14.	Gujarat Energy Transmission Corporation Limited, Vadodara	Shri A.A. Joshi	deeng.getco@gebmail.com
15.	Indian Electrical and Electronics Manufacturers Association, New Delhi	Smt. Vishakha Chaudhary (Invitee)	vishakha.chaudhary@ieema.or g
16.	International Copper Association India, Mumbai	Shri Jyotish Pande	jyotish.pande@internationalco pper.org
17.	KEC International Limited, Mumbai	Shri Bhoopendra Singh	singhbc@kecrpg.com
		Smt. Rajani Pande (Attended Physically)	pandera@kecrpg.com
18.	LS Cable India Private Limited, Rewari	Shri Ajay Kumar Mishra (Attended Physically) Shri Dinesh Kumthekar	ajay.mishra@lscable.in dinesh.kumthekar@lscable.in
		(Attended Physically)	dinesn.kumtnekar@iscable.in
19.	Lapp India Private Limited, Jigani	Shri Kumar Krishna S.	krishna.kumar@lappindia.com
20.	National Capital Region Transport Corporation, New Delhi	Shri Afroz Ansari	afroz.ansari@ncrtc.in
21.	Nuclear Power Corporation of India Limited, Mumbai	Shri. Shashank Singh	em.shashank@gmail.com
22.	Paramount Communication Limited, Mumbai	Shri Arun Sharma	arun@paramountcables.com
23.	Polycab Wires Private Limited, Mumabi	Shri Bharat Sehgal	bharat.sehgal@polycab.com
24.	RR Kabel Limited,	Shri Jose Thomas	jose.thomas@rrglobal.com
	Silvassa	Shri Ronak Bhatt	ronak.bhatt@rrglobal.com
		Shri Balachandran	Balachandran.Dharman@rrglo
		Dharman	bal.com
25.	Shakun Polymers Limited, Vadodara	Shri Priten Shah	technical@shakunpolymers.co m
		Shri Pratik Nayak	qcdaman@shakunpolymers.co m
26.	Tata Power Delhi Distribution Limited,	Shri Kapil Kumar	kapil.kumar@tatapower- ddl.com
V	New Delhi	Shri Sanjeev Atri	sanjeev.kumar@tatapower- ddl.com
27.	Universal Cables Limited, Satna	Shri Yogendra Singh Tiwari	yogendra.tiwari@unistar.co.in
20	DI DEDGOMAI	Shri C.S. Mohanty	csmohanty@unistar.co.in
28.	IN PERSONAL CAPACITY	Shri B. Nageshwar Rao	nageshburjupati@gmail.com
29.	IN PERSONAL CAPACITY	Shri Sitaraman Rama Prasath	ramaprasath25@gmail.com



ITEM 0 WELCOME AND OPENING REMARKS BY THE CHAIRPERSON

The Chairperson, Smt. Meena K.P. welcomed all the members present in the 30th meeting. She requested all the members to actively participate in the discussion during the meeting to arrive at the decision for documents under consideration. She apprised the members regarding discussion/decision on various subjects/documents during the meeting and the new subjects taken by IEC TC 20 for formulation of new standards. She requested subcommittee/Panel members to actively work on the assigned committee work.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The committee formally confirmed the minutes of the last meeting (29th meeting) of Power Cables Sectional Committee, ETD 09 held on 30th January 2024, through hybrid mode which were circulated vide BISDG letter No. ETD 09/A 2.29 dated 09 February 2024.

ITEM 2 ACTIONS ARISING OUT OF PREVIOUS MEETING

direct current (HVDC) power transmission - Cables with extruded insulation and their accessories for rated voltages up to 320 kV for land applications - Test methods and requirements) 2. 2.3 IS 14255: 1995 Aerial Bunched Cables for working voltages up to and including 1100Volts – Specification a) To revise IS 14255: 1995 i.e. IS 14255 (Part 1) Aerial Bunched Cables for Working Voltages upto and Including 1.1 kV. b) To formulate IS 14255(Part 2)- Aerial Bunched Cables for Working Voltages from 3.3 kV upto and including 33 kV upto and including 33 kV upto and including 33 kV or To formulate testing of comments received. Doc ument to be considered for printing. Committee decided wide circulate draft for revision of IS 14255 and new standard 14255-2 are under p-draft stage. Doc to be considered for wide circulation. No input received to formulate standard for testing of Aerial Bunched cables accessories. Hence, subject may be dropped and to be considered after panel-8.	C	T4 P	D 64 T 12	A -4*	Desiries CT 4
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3.	2.10 &	ETD 09 (22546)	Modified document	Committee decided to
	2.11	IS 7098: part 3 (revision)	incorporating	consider the draft doc.
		Cross-linked polyethylene	suggested changes	for printing.
		insulated thermoplastic sheathed	was circulated, no	
		cables- specification part 3 for	comments received.	
		working voltages above 33 kv and up to including 400 kv	Hence, doc. to be	
		and up to including 400 kv	considered for	
	2.25	D :: CYG 10570	printing.	C
4.	2.27	-Revision of IS 13573	Working draft awaited.	Committee requested Panel-8 to convene the
		(Part -2) :2011/ IEC 60502-4:2005 (Cable	awaneu.	
		accessories for		meeting and submit recommendation within
		extruded power cables -		
		Specification: Part 2 for working		01 month.
		voltages from 3.3 kV(Ue) up to		
		and including 33 kV(E) - Test		
		requirements.		
		-To formulate new standard		
		13573-4 and accessories		
5.	2.1	a. Revision of IS 694	Draft for revision of	a) Committee
			IS 694 circulated as	decided to wide
		b. Draft Standard on screened	p-draft.	circulate
		cables		revision of IS
				694 for a period
				of 30 days and.
				b) Circulate draft
				on screened
				cables to
				committee
				members as p-
				draft.
6.	2.2	Revision of IS 3961 (Part 3):	Revision of IS 3961	Committee decided to
0.	4.4	1968 & IS 3961(Part 5): 1968	(part 3) under P-draft	consider draft IS 3961
		1500 & 15 3501(1 att 3) : 1500	stage, no comments	(part 3) for wide
			received. Document	circulation for a period
			to be processed for	of 30 days and.
			wide circulation.	Requested panel-6 to
			Draft for revision of	submit draft for IS 3961
			IS 3961(part 5)	(part 5) within 30 days.
			awaited.	u ,
7.	2.5 &	Revision of IS 1554 (part 1 &	IS 7098 (part 1)	Committee decided to
	2.29	2), IS 7098 (part 1)	under wide	consider draft for
			circulation, no	revision of IS 7098 (part
			comments received.	1) for printing and wide
			Panel-7	circulate revision of IS
			recommended to	1554 (part 1 &2) for 30
			wide circulate draft	days.
			for revision of IS	
			1554 (part 1 & 2)	
8.	2.26	a) Draft of revision of IS	Working draft	a) Committee
		4289 (Part 1) standards	awaited from panel-5	decided to wide



		for lifts. b) NWIP based on EN 50214:2006 (Flat polyvinyl chloride sheathed flexible cables) and/or other relevant IEC/ISO standard for cables for use in lifts applications.		circulate revision of IS 4289 (part 1) for a period of 30 days and. b) Committee requested panel- 5 to submit draft for circulation to committee members.
9.	2.16	IS 1255 Part 2: Code of practice for installation and maintenance of power cables from 33KV up to and including 400 KV rating.	Draft awaited from panel-9	Committee requested panel 9 to convene the meeting and submit draft within 30 days for circulation.
10.	2.15	NWIP on Power Cables for e- Vehicle Charging Systems	Draft submitted for consideration by panel-11.	Committee decided to circulate the doc as P-draft for a period of 1 month. If no comment received then document to be wide circulated for 1 month.
11.	2.4	IS 2465 "Cables for Motor Vehicles"	Draft awaited	Committee requested Smt. Sheetal (ERDA) to submit draft within 15 days.
12.	2.9	IS 17293:2020 Electric cables for photovoltaic systems for rated voltages 1 500 Volts	Comments circulated to committee members. No input received on comments.	Shri Ronak Bhatt (RR Kabel) to provide inputs.
13.	2.14	IS 1255 (Part 1) Code of Practice for Installation and Maintenance of Power Cables upto and including 33 kV Rating (Third Revision)	Project to be considered for R&D.	Committee agreed for Terms Of Reference for R&D work.
14.	2.20	ETD 09(24337) NWIP on Instrumentation and control Cables	Draft document under p-draft stage, no comments received. Document to be considered for wide circulation.	Committee decide to wide circulate the doc for a period of 01 month.
15.	2.24	ETD 09(24344) - Methods of Test for Cables Part 65 Thermal Short Circuit Test Through Conductor/ Metallic Sheath/ Screen Armor	CPRI to submit technical input on comments.	Committee requested CPRI to submit technical input on comments within 15 days.



16.	6.2	IS 10810 (Part 62) : 1993	Lapp India to submit	Committee requested
10.	U.4	Methods of test for cables: Part	technical inputs	Shri Krishna Kumar
		62 Fire resistance for bunched	technical inputs	
		cables		(Lapp India) to review
17.	6.2 &	IS 10810 (Part 63) : 1993	Lapp India to submit	and submit the inputs.
	5.4	Methods of test for cables: Part	technical inputs	
		63 Smoke density for electric	considering comment	
		cables under fire conditions	submitted by CPRI.	
18.	12.3	Amendment 3 to IS 9968-2:2002	Comments circulated,	Committee requested
100		(Specification for elastomer -	no input from	members to evaluate and
		Insulated cables: Part 2 for	committee members.	provide technical input
		working voltages from 3.3 kV		on comments.
		up to and including 33 kV (First		
10	- 1	Revision)	C. 1 1. 1	C '44 1 11 4
19.	5.1	IS 9968-1, comment	Standard to be	Committee decide to
			considered for	consider the doc for
			revision	wide circulation for a
			incorporating	period of 01 month.
			comments received	
			from Shri A K	
			Samanta	
20.	5.4	IS 17048- toxicity and flex test	Draft awaited from	Committee requested
		requirement	CPRI.	CPRI to submit draft
			AXI	standard for toxicity test
				which is to be part 66 of
				IS 10810 series and.
				Delete flex test.
21.	6	NWIP- FEP insulated single	Committee to	Committee requested
		core shielded wire with FEP	discuss.	Shri Krishna Kumar
		jacket.		(Lapp India) to provide
				the draft document.
L				

ITEM 3.0 COMPOSITION OF SECTIONAL COMMITTEE AND PANELS

3.1 The committee considered the nominations for co-option in the committee for:

The Brihan Mumbai Electric Supply & Transport, Mumbai- Shri M. B. Bamble, Shri S. V. Fulpagare

The committee noted the information given in the Agenda and revised composition of panel as:

- 1. Delete Panel-4, panel-10, panel-11
- 2. Addition in scope of panel-8 i.e. testing of accessories for Aerial Bunched cables.
- 3. Addition of Ajay Kumar, L. S. cables in panel-8 and panel-9.

ITEM 4 PRESENT POSITION OF WORK UNDER THE SCOPE OF ETD 09

- **4.1** The committee noted the information given in the Agenda.
- **4.2** The committee noted the information given in the Agenda.



ITEM 5 TECHNICAL ISSUES

Comment on IS 17505 (part 1)

Clause/subclause	Comment	Proposed change	Decision
Annex – B	For armoring, only	d = diameter of wire/width	Comment agreed,
Armour Coverage	galvanized round	of formed wires D =	Annex-B to be in
Percentage	steel wires are	diameter under armour +	line with IS 7098-2
	permitted as per	thickness/diameter of armour	
	15.2. Key in Annex	a = angle between armouring	
	– B may be	wire/ formed wires and axis	
	modified in line	of cable.	
	with the	C = lay length of armouring	
	requirements.	wires/ formed wires	
Annex - D	Dimension of Steel	The dimensions/size of steel	Comment not agreed
Abrasion	Angle	angle for ensuring	
Resistance Test		uniformity of contact area	
		may be specified.	
Table-6	Missing range in	We would like to clarify if	Comment agreed,
	Table 6 of IS 17505-	the thickness of both the	inputs to be provided
	1, which is between	inner and outer sheath	by Ronak Bhatt,
	45 mm and 50 mm,	should be derived from the	Krishna Kumar and
	including the	calculated diameter of the	C S Mohanty for
	corresponding value.	laid-up core or if the	addition of
	The range of the	thickness of the outer sheath	requirements from
	inner sheath and	should be derived from the	45 to 50 mm.
	outer sheath for the	armor thickness calculated as	
	calculated cable	per IS 10462-1.	
	diameter is the same		
	for both.		

ITEM 6 NEW WORK ITEM PROPOSOAL Nil

ITEM 7 INTERNATIONAL ACTIVITIES

1. New Work Item proposal to IEC- FRLSH Properties of PVC.

Committee agreed

2. Nomination invited to participate in **IEC TC 20** scheduled from **11.11.2024-15.11.2024** in Germany (hybrid mode).

Nomination received from following members for participation: –

Organization	Member
Central Power Research Institute,	Smt. Meena K.P.
Bengaluru	
RR Kabel Limited, Silvassa	Shri Ronak Bhatt
Universal Cables Limited, Satna	Shri Yogendra Tiwari, Shri C.S Mohanty
KEC International Limited, Mumbai	Smt. Rajani Pande
Lapp India Private Limited, Jigani	Shri Kumar Krishna S.
IN PERSONAL CAPACITY	Shri Sitaraman Rama Prasath
BIS	Md. Israfil



Committee decided to nominate the experts in following IEC-TC 20 Subcommittee(s) and/or Working Group(s)

Label	Title	Experts	Decision
Working (Group		
WG 16	High voltage cables (1kV and above), their accessories and cable systems	Nageshwar Rao	-
WG 17	Low voltage cables below 1kV	Sudheer Bishnoi Nageshwar Rao	Removal of Sudheer Bishnoi and addition of Krishna Kumar and Md. Israfil
WG 18	Burning characteristics of	Sudheer Bishnoi	Removal of Sudheer
	electric cables	Nageshwar Rao	Bishnoi
WG 19	Current rating and short-circuit limits of cables		-
Maintenan	ice Teams	1	
MT 21	Review and Maintenance team of IEC 60050-461		-
Joint Main	itenance Teams		
JMT 18	IEC/TR 62271-209: High-voltage switchgear and control gear - Part 209: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV - Fluid-filled and extruded insulation cables - Fluid-filled and dry type cable-terminations Managed by SC 17C		-

ITEM 8 NEW SUBJECTS AND FUTURE PROGRAMME OF WORK

The committee noted the information given in the Agenda.

ITEM 9 DATE AND PLACE OF NEXT MEETING

The date of the next meeting shall be 22.10.2024 and place of the next meeting shall be as decided in consultation with the chairperson.

ITEM 10 ANY OTHER BUSINESS

Committee discussed on cables to be used in water for floating solar PV installation, and explore the International standards/guidelines related to the subject.

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