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BUREAU OF INDIAN STANDARDS

AGENDA

Name of the	No. of	Day	Date	Time	Venue
Committee	Meeting				
Conductors and accessories for overhead lines Sectional Committee, ETD 37	24 th	Tuesday	19 th Nov 2024	11:00 AM	Join meeting

CHAIRMAN: Shri Anish Anand 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 23rd meeting of Conductors and accessories for overhead lines Sectional Committee, ETD 37, held on 31st May 2024 virtually, circulated on 11th June 2024.

No comments were received.

The Committee may formally confirm the minutes.

Item 2 COMPOSITION OF CONDUCTORS AND ACCESSORIES FOR OVERHEAD LINES SECTIONAL COMMITTEE, ETD 37

- **2.1** The present composition of Conductors and accessories for overhead lines Sectional Committee, ETD 37 is given at **Annex 1**.
- 2.2 Compositions of ETD 37 Panel 1, 2 & 3 are given at Annex 2. The committee may review.

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	o. Item	Action reported in the last meeting	Decision Taken in the last meeting	Action
1)	Revision of IS 2121 (Part	The drafts on IS 2121 series	It was decided to	Mr. Chandra Kant from M/s POWERGRID
	1): 1981	were circulated to ETD37: P-	circulate the drafts on IS	submitted comments on the IS 2121
		2 members requesting them	2121 Series among the	series via email on June 10, 2024. He was
	Doc ETD 37 (25450)	to provide their comments	committee members as	requested to resubmit the comments
		by 20th Dec 2023.	preliminary drafts for	using the BIS commenting template, and
	Specification for	-	their comments and	these were subsequently resubmitted on



	1			T
	conductors and earth	Comments received from	Review for the duration	September 29, 2024. Dr. M. Selvaraj,
	wire accessories for	Mosdorfer India Pvt Ltd on	of 45 days.	Convener of P-2, has been requested to
	overhead lines, Part 1:	terminology clause	•	propose a suitable date for a panel
		incorporated in the draft		meeting to discuss POWERGRID's
	wires, and tapes for	I =		comments.
	conductors.			
		No further comments were		The ETD 37/P-2 meetings to review these
		received from the P-2		_
				comments have not yet been scheduled.
	Revision of IS 2121 (Part	members.		
	2): 1981	L		In addition, the relevant IEC standard, IEC
		The committee may discuss		61284, "Overhead Lines - Requirements
	Doc ETD 37(25451)	to wide circulate the drafts.		and Tests for Fittings," is currently under
				revision (CD stage). The committee may
	Specification for			consider adopting this IEC standard as a
	conductors and earth			replacement for the IS 2121 series.
	wire accessories for			
	overhead lines, Part 2:			The committee members are requested
	Mid-span joints and			to discuss and expedite the revision
	repair sleeves for			process for the IS 2121 series, as these
	conductors.			pre-2000 standards require priority
	conductors.			revision.
	Revision of IS 2121 (Part			CVISIOII.
	-			
	3): 1992			
	575 07 (25 452)			
	Doc ETD 37 (25452)			
	Conductors and earth			
	wire accessories for			
	overhead lines, Part 3:			
	Accessories for earth			
	wire – Specification.			
	·			
	Revision of IS 2121 (Part			
	4): 1991			
	,, 2552			
	Doc ETD 37 (25452)			
	000 210 37 (23432)			
	Canada at an an an an an at a			
	Conductors and earth			
	wire accessories for			
	overhead lines, Part 4:			
	Non-tension wires –			
	Specification.			
		•		The following new subjects assigned to
2)	Drafts of ACSS and	meetings but members	standards related to IS	interns for conducting pre-
•	ACCC standards	could not arrive on final	398 Series was put on	standardization work:
		format of standards.	hold until the existing	
		Different sizes can be	parts of the IS 398 series	1) Aluminium Carbon Fiber composite
		indicated for conventional	underwent revision.	core conductor
		conductors but for HTLS		
		conductors, it may not be		The detailed report submitted by Intern
		feasible to add different		1
		sizes. SC-1 was requested		consideration of the committee.
		to kindly hold meetings to		Additionally, following IEC documents
		finalize the working drafts		are under development on the same
		for ACSS and ACCC		subject:
		standards.		
				a) IEC TS 62818-1 ED1: Conductors for
				overhead lines - Fiber reinforced



3)	ref. ET:37/T-28 dated 2014-12-10 (doc:ETD- 37(6777) for IS 398(Part 7), Steel reinforced, thermal-		composite core used as supporting member material - Part 1: Polymeric matrix composite cores b) IEC TS 62818-2 ED1: Conductors for overhead lines - Fiber reinforced composite core used as supporting member material - Part 2: Metallic matrix composite cores 2) Thermal Resistant Aluminium Alloy Conductor Steel Reinforced (TACSR) The detailed report submitted by Intern is attached at Annex 4 for consideration of the committee. The committee members are requested to kindly review these reports and share views on formulation of Indian standards on these subjects.
4)	resistant Aluminium alloy conductor – Specification ref. ET:37/T-29 dated 2014-08-01(doc:ETD-37(6778) for IS 398(Part 8)), Super thermal reistant aluminium clad invar reinforced aluminium alloy stranded conductor – Specification		



5)	ref. ET:37/T-30 dated 2014- 08-01(doc:ETD-37(6779) for IS 398(Part 9), Gap type steel reinforced, super thermal resistant aluminum alloy stranded conductor – Specification			
6)	Revision of IS 5613 Series	Part 2 and Part 5 was discussed in the P-1 meeting scheduled on 24th Nov 2023. The comments received on the draft standard discussed during the meeting.	have been decided to finalize the drafts on IS 398 Series for wide circulation: POWERGRID will circulate the drafts on IS 398 Part 2 and IS 398 Part 4 by 15th March 2024. ETD37: P-1 members are requested to review and provide comments within 15 days from the date of circulation. Comments received will be discussed in the P-1 meeting tentatively scheduled in the 1st week of April. The finalized drafts from	recommended for wide circulation. The draft was wide circulated on Sep 22, 2024 for the duration of 45 days. Last date of comments: 7 November 2024 Mr. Pradeep Agnihotri M/s Apar Industries shared the updated draft of IS 398 (Part 4) on Sep 27, 2024. The draft was circulated among P-1 members for their review and comments. No comments have been received from the P-1 members. The next meeting of P-1 is scheduled on Nov 11, 2024 to discuss the draft on IS 398 (Part 4) and comments received on IS 398 (Part 2) during wide circulation
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	for design installation and maintenance of	awaited. CEA is requested to kindly expedite and	nominate experts from the relevant dept. of CEA.	comments received from CESC Ltd. Circulated among the committee
	overhead power lines	provide the nominations	1 · · · · · · · · · · · · · · · · · · ·	members on Sep 19, 2024 for review and
	Part 1 lines up to and	from Distribution		provide the comments for further
	including 11 kV Sec 1	Department.		discussion. The recommendations are
	design First Revision		updated drafts of these	attached at <u>Annex 5</u> .
	10 F642 (D. 1.4/62)	CEA to update the clauses	standards in consultation	
	IS 5613 (Part 1/Sec 2): 1985 Code of practice	related to Central Electricity Act and		No comments were received from the Committee members on these
	for design installation	regulations. Following	POWERGRID to check and	
	and maintenance of	experts are nominate	arrange the	
	overhead power lines	from their respective	representations on these	The committee members are requested
	Part 1 lines up to and	organizations:	F	to discuss and expedite the revision
	including 11 kV Sec 2			process for the IS 5613 series, as these
	installation and	1. Mr. Ashok Moni M/s	engineering Dept.	are pre-2000 standards require priority
	maintenance	Sicame India 2. Mr. Ashish Nema M/s	Members from Sicame	revision.
	IS 5613 (Part 2/Sec 1):	Adani Transmission Limited	and Adani Transmission	
	1985	3. Mr. Prasenjit Karmakar	limited are requested to	
		M/s CESE Ltd	kindly review these drafts	
	Code of practice or		and provide	
	design, installation and	The drafts on IS 5613 (Part	recommendations.	
		1/Sec 1) and IS 5613 (Part		
	overhead power lines: Part 2 lines above 11 kv	1/Sec 2) circulated to the respective experts for their		
	and up to and including	review and comments.		
	220 kv sec 1 design	Comments		
	(First Revision)	received from Mr. Arnab		
		Routh M/s CESE Ltd. Other		
	IS 5613 (Part 2/Sec 2):	organizations are also		
	1985	requested to kindly provide		
	Code of practice for	the comments so that the Subcommittee meeting can		
	design, installation and	be planned for further		
	maintenance of	discussion.		
	overhead power lines:			
	Part 2 lines above 11 kV			
	and up to and including			
	000 1/ 0 0			
	220 Kv: Sec 2			
	installation and			
8	installation and maintenance (First	The committee decided	The committee decided	
8	installation and maintenance (First Revision)	that, the draft on IS	that, the draft on IS	The draft on IS 15976 has not yet been
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P	that, the draft on IS 15976 will be discussed	discussed in the P-1 meetings, as
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the	that, the draft on IS 15976 will be discussed in P-1 meeting	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in	discussed in the P-1 meetings, as
3	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The committee may approve the	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in the 1st week of April	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are
3	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The committee may approve the	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in the 1st week of April	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The committee may approve the	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in the 1st week of April	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The committee may approve the	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in the 1st week of April	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are
8	installation and maintenance (First Revision) 8) IS 15976:2013 – Stee	that, the draft on IS 15976 will be discussed in P- 1 meeting after finalizing the drafts on IS 398 series. The committee may approve the	that, the draft on IS 15976 will be discussed in P-1 meeting tentatively scheduled in the 1st week of April	discussed in the P-1 meetings, as discussions on the IS 398 series drafts are



Č	,	IS 9708:1993 – Stockbridge Vibration Dampers for Overhead Power Lines.	draft on IS 9708 on 13 Feb 2024. The updated draft circulated among the technical committee member for their comments and review.	Tag Corporation to kindly review the possibility of identical adoption of IEC 61897 in dual numbering	The committee may discuss the CPRI observations and provide their views on adoptions of IEC 61897 and inclusion
	-,	Revision of IS 3402: 1965 Specification for cadmium copper conductors for overhead railway traction		-	The draft of IS 3402 prepared as per the report submitted by BIS intern shared with the committee members on Oct 29, 2024 for review and comments. The members are requested to kindly discuss and review the draft standard.
1	,	IS 2532: 1965 - Specification for hard - Drawn copper wire for telegraph and telephone purposes		IS 2532: 1965 and IS 2665: 1964 are in process of withdrawal.	IS 2532: 1965 and IS 2665: 1964 have been withdrawn.
		IS 2665: 1964 - Specification for cadmium copper wire for telegraph and telephone purposes			



Item 6 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. The present status of ETD 37 standards is given at <u>Annex 7</u>.

Item 7 PROGRAMME OF WORK

The present position of work under Conductors and accessories for overhead lines Sectional Committee, ETD 37 is given in <u>Annex 7</u> for information.

The Committee may note.

Item 7 Identification of Research & Development Projects for Formulation and Review of Standards

The RnD project on 'Development of coefficients of modulus of elasticity and creep for various conductors, commonly being used in Indian transmission industry' has been awarded to **Nirma University, Ahmedabad**. As per the Guidelines for Research & Development Projects, the relevant Sectional Committees of BIS will monitor the project's progress to ensure adherence to the planned timeline and objectives. Progress reports will be shared with the technical committee members at each stage. Members are requested to review these reports thoroughly to help meet the project objectives within the stipulated timelines.

Item 8 INTERNATIONAL ACTIVITIES

8.1 Programme of Work and List of Published Standards

The details of published standards of IEC TC 07 and TC 11 are given at Annex 8.

8.2 Review of the Projects under IEC TC 7, TC 11 and designation of experts

SI No.	Project No.	Title of the Project	IN NC comments	Designated Experts
1	IEC TS 62818-1 ED1	Conductors for overhead lines - Fiber reinforced composite core used as supporting member material - Part 1: Polymeric matrix composite cores	In Favour, Without Comments	•
2	IEC TS 62818-2 ED1	Conductors for overhead lines - Fiber reinforced composite core used as supporting member material - Part 2: Metallic matrix composite cores	In Favour, Without Comments	IEC standard already finalized
3	IEC 61284 ED3	Overhead lines - Requirements and tests for fittings	In Favour, Without Comments	The committee may nominate expert for review of IEC standard in next stage.

8.3 Status of Reports Submitted by Experts nominated in IEC WGs/PT

SI. No	IEC TC/WG/PT/MT	Title	Experts Nominated	Report Submitted
1	IEC TC 07/MT 2	Concentric lay	Mr Chandra Kant M/s	Yes (Report attached at
		overhead electrical	POWERGRID	<u>Annex- 9</u>)



2		stranded conductors and tests methods	Mr Rajesh Gupta M/s Rajesh Gupta M/s POWERGRID	No
4	IEC TC 11/JWG 13	IEC 61284 - Requirements and tests for fittings linked to TC 7	Mr Chandra Kant M/s POWERGRID	Nomination processed in Sep 2024
4	IEC TC 11/WG 14	Requirements and tests for aeronautical warning balls	Mr Chandra Kant M/s POWERGRID	Nomination processed in Sep 2024

Item 9 DATE AND PLACE OF NEXT MEETING

Item 10 ANY OTHER BUSINESS