

BUREAU OF INDIAN STANDARDS

Minutes

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Conductors and accessories for overhead lines Sectional Committee, ETD 37	23 rd	Friday	31-05-2024	11:00 AM	Online Meeting

Chairman: Shri Anish Anand

Member Secretary: Shri Ashok Kumar

List of Participants:

S.No	Organization	Name	Email
1.	Power Grid Corporation of India	Shri Anish Anand	anish@powergrid.in
2.	Anvil Cables Private Limited, Kolkata	Shri Tapan Ghosh A	tapan@anvilcables.in
3.	Apar Industries Limited, Mumbai	Shri S. K. Jana	sk.jana@apar.com
4.	Cable And Conductor Manufacturers Association of India, Apar Industries Limited, Mumbai	Shri Navendu K. Bhardwaj	navendu.bhardwaj@apar.com
5.	Calcutta Electric Supply Corporation Limited,	Shri Manojit Ghosh	manojit.ghosh@rpsg.in
		Shri Arnab Routh	arnab.routh@rpsg.in
6.	Central Electricity Authority, New Delhi	Shri Amrendra Pratab	amrendra.pratap.cea@gov.in
		Shri A K Rajput	akrajput@nic.in
		Smt. Meena Hooda	meenahooda2030@gmail.com
		Shri Surata Ram	surata_ram@nic.in
7.	Central Power Research Institute	Dr M. Selvaraj	msraj@cpri.in
8.	Central Transmission Utility of India Limited	Shri Rakesh Kumar	rakesh.kumar@powergrid.in
9.	Development Commissioner Micro-Small and Medium Enterprises	Shri shailendra singh	shailendra.singh@dcmsme.gov.in
10.	Electrical Research and Development Association	Shri Anil Suthar	anil.suthar@erda.org
11.	Indian Electrical and Electronics Manufacturers Association	Shri Vishal	vishal.chib@ieema.org
12.	Mosdorfer India Private Limited	Shri Sandeep Patil	sandeep.patil@mosdorfer.com

		Shri Jagadeesh Sivaraj	jagadeesh.sivaraj@mosdorfer.com
13.	Power Grid Corporation of India	Shri Rajesh Gupta	rajeshgupta@powergrid.in
		Shri Mahendra Chourasia	chaurasia.mahendra@powergrid.in
		Shri Chandra Kant	chandra.kant@powergrid.in
14.	Sicame India Connectors Private Limited	Shri Vijayakumar Shanmugam	vijayakumar.shanmugam@sicame.in
15.	Sterlite Power Transmission Limited	Shri Prasad	prasad.s@sterlite.com
		Shri Jeetendra Bisht	jeetendra.bisht@sterlite.com
		Shri R. Ananthakumar	ananthakumar.r@sterlite.com

Item 1 WELCOME AND OPENING REMARKS

1.1 Shri Anish Anand, Chairman of ETD 37, warmly welcomed all members to the meeting and appreciated the significant work done by the three subcommittees in reviewing their assigned standards. He provided an overview of the ETD 37 committee's scope and briefed on ongoing work, including the revision of existing standards and the formulation of new ones. He explained the impact of changes in wire size on other parts of the transmission line, such as hardware fittings, accessories, spacer dampers, and vibration dampers. Additionally, he congratulated the members on publishing the revised drafts of IS 5613 (Part 3/Sec 1) and IS 5613 (Part 3/Sec 2). With these words, he wished all the members to have fruitful discussion during the meeting.

1.2 Shri Ashok Kumar Rajput, Member (Power Systems) at the Central Electricity Authority, highlighted the importance and role of standardization in the industry. He briefed the committee on the three types of conductors mentioned in the TBCB scheme for various HVDC projects and provided background on the proposal to include the AL59 conductor with wire size of 61/4.17mm in IS 398 (Part 6). He concluded by wishing all the members a fruitful discussion on the inclusion of wire size in IS 398 (Part 6).

1.3 Shri Ashok Kumar, Scientist B (ETD), welcomed all participants and wished for a successful discussion on all agenda points. The meeting began with a brief introduction of the members.

Item 2 Discussion on CEA letter attached at annex 1 of the agenda and draft amendment to IS 398 (Part 6) attached at annex 2 of the agenda for Incorporation of the AL59 conductor with sizes 61/4.17 mm and 61/4.36 mm

2.1 The members present at the meeting were invited to share their views on the CEA letter and draft amendment to IS 398 (Part 6).

2.1.1 Shri S. K. Jana M/s Apar industries Limited informed that they have got carried out type test on their manufactured conductors AL59 (61/4.17 mm) and AL59 (61/4.36 mm) and the results of Corona,

Surface gradient, RIV are within the safe limits and recommended to include these sizes in IS 398 (Part 6).

2.1.2 Shri R. Ananthakumar M/s Sterlite explained the benefits of the aforementioned AL59 conductor sizes. He highlighted that, according to their study, the cost of the proposed wire size AL59 (61/4.17 mm) is around 10-15% less than the equivalent ACSR conductor. He stated that they have conducted tests to measure the corrosion resistance performance and found that the AL59 conductor exhibits better corrosion resistance compared to AAAC and ACSR conductors. In conclusion, he supported the amendment to IS 398 (Part 6).

2.1.3 Shri Rajesh Gupta M/s POWERGRID stated that sizes up to 4.5 mm are already manufactured for AAAC conductors. Therefore, the sizes mentioned in the draft amendment of IS 398 (Part 6) for the AL59 conductor can be included in the standard. He requested members to review and verify the properties of these wire sizes before their inclusion in the standard.

2.1.4 Shri Rakesh Kumar M/s CTUIL also supported the inclusion of these wire sizes in the IS 398 (Part 6).

2.1.5 Shri Sandeep Patil M/s Mosdorfer India Pvt. Ltd. stated that it will take 6-8 weeks to develop the necessary hardware fittings and accessories. He also supported the inclusion of these wire sizes in IS 398 (Part 6).

2.2 No objections were raised by the members present regarding the inclusion of the AL59 conductor with sizes 61/4.17 mm and 61/4.36 mm in IS 398 (Part 6). In conclusion, the committee unanimously agreed to include these sizes in the standard. However, it was decided to review the electrical and mechanical characteristics associated with these wire sizes before finalizing the draft amendment. Consequently, the ETD 37: SC-1 meeting is scheduled for June 7, 2024, to review these properties and finalize the draft amendment to IS 398 (Part 6) for consideration by the committee.

Item 3 Indian Standards identified for archiving

3.1 The committee decided to archive following Indian Standards:

SI No.	IS No.	Title
1.	IS 14214 : 1994	Annealed stranded copper conductors for jumper wires - Specification
2.	IS 3476 : 1986	Specification for trolley and contact wire for electric traction (First Revision)
3.	IS 9511 : 1980	Specification for earth knobs for neutral conductors

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

