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BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
TC meeting to discuss the CEA letter on the incorporation of the AL59 conductor with size 61/4.17 mm in IS 398 (Part 6)	23rd	Friday	31st May 2024	11:00 AM	Join meeting

CHAIRMAN: Shri Anish Anand

MEMBER SECRETARY: Shri Ashok Kumar

Item 0 Welcome & Opening Remarks

Item 1 CEA letter on the incorporation of the AL59 conductor with size 61/4.17 mm in IS 398 (Part 6)

1.1 A Letter has been received from CEA to incorporate **AL59 conductor** with size **61/4.17 mm in IS 398 (Part 6).** The copy of CEA letter is attached at Annex 1. The extract of the letter is as follows:

1.1.1 Many HVDC Projects are under bidding or are upcoming. Currently apart from ACSR and AAAC, AL 59 conductor with the size of 61/4.36 mm is provided as option to bidders for the selection of conductor for the HVDC transmission line. CTUIL, a utility for transmission planning of Inter-State Transmission Systems, proposed the incorporation of a smaller size of AL59 as an alternate conductor to the ACSR Lapwing conductor (38.2 mm) for + 800kV/500 kV HVDC under TBCB schemes with a view that it is lighter in weight and its performance is equivalent to ACSR Lapwing conductor (38.2 mm). In this respect, a Committee was constituted under the chairmanship of Member (Power Systems), CEA to study the technical, economic and Safety aspects of AL59 (61/4.17 mm) conductor vis-a vis ACSR lapwing and other conductors.

1.1.2 A Study was carried out by the consultant, whereby it was concluded that performance of AL59 (61/4.17 mm) conductor is comparable to the ACSR Lapwing conductor and it could be included in HVDC projects at the earliest. The proposed conductor apart from a reduction in line loss, will also save the capital cost of the conductor in the range 10-15%, thereby reducing the burden on the end consumer of Power.

1.1.3 It is observed that the proposed conductor is not mentioned exclusively in IS 398 (Part 6). This is giving

impression that proposed conductor is not a standardized conductor and thereby preventing its use in the Transmission line. Therefore it is requested that the conductor may be included in IS 398 (part-6) so that the conductor can be used in the HVDC based transmission lines widely.

The committee may discuss issuing an amendment to incorporate the AL59 conductor (61/4.17 mm) size into IS 398 (Part 6).

Item 2 Apar Industries proposed an **amendment to IS 398 (Part 6)** to include AL59 (61/4.17 mm) and AL59 (61/4.36 mm) wire sizes. The draft amendment to IS 398 (Part 6) including the relevant parameters is attached at **Annex 2**.

The committee members are requested to kindly discuss the proposed amendment to IS 398 (Part 6) and examine the technical parameters.

Item 3 Open Discussion