

BUREAU OF INDIAN STANDARDS

Program of Work

ETD 37 : Conductors And Accessories For Overhead Lines

Scope: To prepare standards for conductors and accessories for overhead power lines and codes of practice for the design, installation and maintenance of overhead power lines

Liaison: **IEC TC-11 (P): Overhead lines IEC TC-7 (P): Overhead electrical conductors**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10162 : 1982 Reviewed In : 2018	Specification for spacers and spacer dampers for twin horizontal bundle conductors	March, 2018	1	Indigenous
2	IS 12048 : 1987 Reviewed In : 2018	Specification for helically formed fittings for overhead lines up to 33 kV	March, 2018	1	Indigenous
3	IS 14214 : 1994 Reviewed In : 2019 Reaffirmed but not taken up for revision	Annealed stranded copper conductors for jumper wires - Specification		-	Indigenous
4	IS 15976 : 2013 Reviewed In : 2023	Steel reels and drums for bare conductors - Specification	July, 2023	-	Indigenous
5	IS 1778 : 1980 Reviewed In : 2019	Specification for reels and drums for bare conductors (First Revision)		1	Indigenous
6	IS 2121 (Part 1) : 1981 Reviewed In : 2018	Specification for conductors and earth wire accessories for overhead power lines: Part 1 armour rods, binding wires and tapes for conductors (First Revision)	March, 2018	-	Indigenous
7	IS 2121 (Part 2) : 1981 Reviewed In : 2018 BS 3288: Part I : 1973	Specification for conductors and earth wire accessories for overhead power lines: Part 2 mid - Span joints and repair sleeves - For conductors (First Revision)	March, 2018	-	Modified/Technically Equivalent
8	IS 2121 (Part 3) : 1992 Reviewed In : 2018 BS 3288: Part I : 1973, AS I 154.1 : Part 1 : 1985	Conductors and earthwire accessories for overhead lines: Part 3 accessories for earthwire - Specification (First Revision)	March, 2018	-	Modified/Technically Equivalent
9	IS 2121 (Part 4) : 1991 Reviewed In : 2018 AS 1154. 1 : 1965 Insulator and conductor fittings for	Conductors and earthwire accessories for overhead lines: Part 4 non - Tension joints - Specification	March, 2018	-	Modified/Technically Equivalent

	overhead power lines : Part 1 Performance and				
10	IS 3402 : 1965 Reviewed In : 2018 B.S. 2755: 1956 Specification for copper and cadmium copper stranded conductors for overhead electri	Specification for cadmium copper conductors for overhead railway traction	March, 2018	1	Modified/Technically Equivalent
11	IS 3476 : 1986 Reviewed In : 2019 Reaffirmed but not taken up for revision BS 23 : 1970, U. I. C. Code 870-O (first edition), ETI/OHE/ 42 (1 I/ 83)	Specification for trolley and contact wire for electric traction (First Revision)		-	Modified/Technically Equivalent
12	IS 398 (Part 1) : 1996 IEC 60889 Reviewed In : 2018	Aluminium conductors for overhead transmission purposes - Specification: Part 1 aluminium stranded conductors (Third Revision)	March, 2018	1	Indigenous
13	IS B398 (Part 1) : 1996	Aluminium Conductors for Overhead Transmission Purposes – Specification Part 1 Aluminium Stranded Conductors		-	
14	IS 398 (Part 2) : 1996 IEC 60889 Reviewed In : 2018	Aluminium conductors for overhead transmission purposes - Specification: Part 2 aluminium conuuctors, galvanized steel - Reinforced (Third Revision)	March, 2018	3	Indigenous
15	IS 398 (Part 3) : 1976 Reviewed In : 2019 AS 1220	Specification for aluminium conductors for overhead transmission purposes: Part 3 aluminium conductors, aluminized steel reinforced (Second Revision)		3	Modified/Technically Equivalent
16	IS 398 (Part 4) : 1994 Reviewed In : 2021 IEC Pub 208 (1966) Aluminium Alloy Stranded Conductors, International Electrotechnical Commission BS	Aluminium conductors for overhead transmission purposes: Part 4 aluminium alloy stranded conductors (Aluminium - Magnesium - Silicon Type) - Specification (Third Revision)	October, 2021	1	Modified/Technically Equivalent
17	IS 398 (Part 5) : 1992 Reviewed In : 2018	Aluminium conductor for overhead transmission purposes - Specification: Part 5 aluminium conductors - Galvanized steel - Reinforced for extra high voltage (400 KV And Above) (First Revision)	March, 2018	2	Indigenous
18	IS 398 (Part 6) : 2021	Aluminium Conductors for Overhead Transmission Purposes Part 6 High Conductivity Aluminium Alloy Stranded		1	Indigenous

		Conductors — Specification			
19	IS 5613 (Part 1/Sec 1) : 1985 Reviewed In : 2018 Reaffirmed but not taken up for revision Rural Line Standards, Construction Manual, prepared by Rural Electrification Corporation Ltd.	Code of practice for design, installation and maintenance of overhead power lines: Part 1 lines up to and including 11 kV Sec 1 design (First Revision)	March, 2018	1	Modified/Technically Equivalent
20	IS 5613 (Part 1/Sec 2) : 1985 Reviewed In : 2018 Reaffirmed but not taken up for revision Rural Line Standards, Construction Manual, prepared by Rural Electrification Corporation Ltd.	Code of practice for design, installation and maintenance of overhead power lines: Part 1 lines up to and including 11 kV Sec 2 installation and maintenance	March, 2018	-	Modified/Technically Equivalent
21	IS 5613 (Part 2/Sec 1) : 1985 Reviewed In : 2018 Reaffirmed but not taken up for revision Rural Line Standards, Construction Manual, prepared by Rural Electrification Corporation Ltd.	Code of practice or design, installation and maintenance of overhead power lines: Part 2 lines above 11 kv and up to and including 220 kv sec 1 design (First Revision)	March, 2018	1	Modified/Technically Equivalent
22	IS 5613 (Part 2/Sec 2) : 1985 Reviewed In : 2018 Reaffirmed but not taken up for revision Rural Line Standards, Construction Manual, prepared by Rural Electrification Corporation Ltd.	Code of practice for design, installation and maintenance of overhead power lines: Part 2 lines above 11 kV and up to and including 220 Kv: Sec 2 installation and maintenance (First Revision)	March, 2018	3	Modified/Technically Equivalent
23	IS 5613 (Part 3/Sec 1) : 2024	Design, Installation and Maintenance for Overhead Power Lines $i_c^{1/2}$ Code of Practice Part 3 400 kV and 765 kV Lines Section 1 Design (First Revision)		-	Indigenous
24	IS 5613 (Part 3/Sec 2) : 2023	Design, Installation and Maintenance for Overhead Power Lines $i_c^{1/2}$ Code of Practice Part 3: 400 kV and 765 kV Lines Section 2 Installation and Maintenance (First Revision)		-	Indigenous
25	IS 9511 : 1980 Reviewed In : 2019	Specification for earth knobs for neutral conductors		-	Indigenous
26	IS 9708 : 1993	Stockbridge vibration dampers for	March, 2019	-	Modified/Technically

Reviewed In : 2019 IEEE standard 563-1978	overhead power lines - Specification (First Revision)		Equivalent
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Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	ETD 37 (25450) Revision of: IS 2121:1981	Specification for conductors and earth wire accessories for overhead power lines Part 1 armour rods binding wires and tapes for conductors Second Revision
2	ETD 37 (25451) Revision of: IS 2121:1981	Specification for conductors and earth wire accessories for overhead power lines Part 2 mid - Spain joints and repair sleeves - For conductors Second Revision
3	ETD 37 (25452) Revision of: IS 2121:1992	Conductors and earthwire accessories for overhead lines Part 3 accessories for earthwire - Specification Second Revision
4	ETD 37 (25453) Revision of: IS 2121:1991	Conductors and earthwire accessories for overhead lines Part 4 non - Tension joints - Specification Second Revision
5	ETD 37 (27203) Revision of: IS 9708:1993	Overhead lines Requirements and tests for aeolian vibration dampers

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	ETD 37 (25868) Revision of: IS 398:1996	ALUMINIUM CONDUCTOR FOR OVERHEAD TRANSMISSION PURPOSES SPECIFICATION PART 2 ALUMINIUM CONDUCTORS GALVANIZED STEEL REINFORCED Fourth Revision

Total Published Standards:26 Total Standards Under development:6

Aspect Wise Report

Product : 12
Code of Practices : 5
Methods of Test : 0
Terminology : 0
Dimensions : 0
System Standard : 0

Safety Standard : 0
 Others : 9
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 2532 : 1965 Reviewed In : 2018 B. S. 174 : 1951, B. S. 125 : 1954	Specification for hard - Drawn copper wire for telegraph and telephone purposes
2	IS 2665 : 1964 Reviewed In : 2018 bs 175-1951	Specification for cadmium copper wire for telegraph and telephone purposes
3	IS 282 : 1982 Reviewed In : 1990	Hard-drawn copper conductors for overhead power transmission
4	IS 2889 : 1964	Drums for trolley and contact wire

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10162 : 1982 Reviewed In : 2018	Specification for spacers and spacer dampers for twin horizontal bundle conductors
2	IS 12048 : 1987 Reviewed In : 2018	Specification for helically formed fittings for overhead lines up to 33 kV
3	IS 14214 : 1994 Reviewed In : 2019 Reaffirmed but not taken up for revision	Annealed stranded copper conductors for jumper wires - Specification
4	IS 15976 : 2013 Reviewed In : 2023	Steel reels and drums for bare conductors - Specification
5	IS 2121 (Part 1) : 1981 Reviewed In : 2018	Specification for conductors and earth wire accessories for overhead power lines Part 1 armour rods binding wires and tapes for conductors First Revision
6	IS 2121 (Part 2) : 1981 Reviewed In : 2018 BS 3288: Part I : 1973	Specification for conductors and earth wire accessories for overhead power lines Part 2 mid - Spain joints and repair sleeves - For conductors First Revision
7	IS 3402 : 1965 Reviewed In : 2018 B.S. 2755: 1956 Specification for copper and cadmium copper stranded conductors for overhead electri	Specification for cadmium copper conductors for overhead railway traction
8	IS 3476 : 1986 Reviewed In : 2019 Reaffirmed but not taken up for revision BS 23 : 1970, U. I. C. Code 870-O (first edition), ETI/ OHE/ 42 (1 / 83)	Specification for trolley and contact wire for electric traction First Revision
9	IS 398 (Part 1) : 1996 IEC 60889 Reviewed In : 2018	Aluminium conductors for overhead transmission purposes - Specification Part 1 aluminium stranded conductors Third Revision
10	IS 398 (Part 2) : 1996 IEC 60889 Reviewed In : 2018	Aluminium conductors for overhead transmission purposes - Specification Part 2 aluminium conuctors galvanized steel - Reinforced Third Revision
11	IS 398 (Part 6) : 2021	Aluminium Conductors for Overhead Transmission Purposes Part 6 High Conductivity

	IEC 80601-2-49:2018	Aluminium Alloy Stranded Conductors Specification
12	IS 9511 : 1980 Reviewed In : 2019	Specification for earth knobs for neutral conductors