

## 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	Annealed stranded copper conductors for jumper wires - Specification		-	Indigenous
4	IS 15976 : 2013 Reviewed In : 2018	Steel reels and drums for bare conductors - Specification	July, 2018	-	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 - Spain 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 overhead power lines : Part 1 Performance	Conductors and earthwire accessories for overhead lines: Part 4 non - Tension joints - Specification	March, 2018	-	Modified/Technically Equivalent

	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 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 conductors		-	Indigenous
19	IS 5613 (Part 1/Sec 1) : 1985 Reviewed In : 2018	Code of practice for design, installation and maintenance of overhead power lines: Part 1 lines	March, 2018	1	Modified/Technically Equivalent

	Rural Line Standards, Construction Manual, prepared by Rural Electrification Corporation Ltd,	up to and including 11 kV Sec 1 design (First Revision)			
20	IS 5613 (Part 1/Sec 2) : 1985 Reviewed In : 2018 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 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 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 $i_c/2$ 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 $i_c/2$ 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 Reviewed In : 2019 IEEE standard 563-1978	Stockbridge vibration dampers for overhead power lines - Specification (First Revision)	March, 2019	-	Modified/Technically Equivalent

### 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 - Span 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 (25839)	Aluminium Conductors for Overhead Transmission Purposes Part 6 High Conductivity Aluminium Alloy Stranded Conductors Specification
6	ETD 37 (25868) Revision of: IS 398:1996	ALUMINIUM CONDUCTOR FOR OVERHEAD TRANSMISSION PURPOSES SPECIFICATION PART 2 ALUMINIUM CONDUCTORS GALVANIZED STEEL REINFORCED FOR OVERHEAD TRANSMISSION LINES Fourth Revision

### 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
<i>No Records Found</i>		

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.	Specification for hard - Drawn copper wire for telegraph and telephone purposes

	174 : 1951, B. S. 125 : 1954	
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

Sl. 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	Annealed stranded copper conductors for jumper wires - Specification
4	IS 15976 : 2013 Reviewed In : 2018	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 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
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 conuuctors galvanized steel - Reinforced Third Revision
11	IS 398 (Part 6) : 2021 IEC 80601-2-49:2018	Aluminium Conductors For Overhead Transmission Purposes Part 6 High conductivity aluminium alloy stranded conductors
12	IS 9511 : 1980 Reviewed In : 2019	Specification for earth knobs for neutral conductors