BUREAU OF INDIAN STANDARDS

Program of Work

CED 7 : Structural Engineering And Structural Sections

Scope: STANDARDIZATION IN THE FIELD OF STRUCTURAL ENGINEERING USING STEEL/ALUMINIUM STRUCTURAL SECTIONS INCLUDING PIPELINES FOR GAS AND FORMULATION OF INDIAN STANDARDS ON DIMENSIONS/TOLERANCES OF VARIOUS HOT ROLLED/COLD FORMED SECTIONS, BARS AND FLAT PRODUCTS IN STEEL AND ALUMINIUM FOR STRUCTURAL AND GENERAL ENGINEERING APPLICATIONS.

Liaison: **ISO TC-167 (P):** *Steel and aluminium structures* **ISO TC-167 (P):** *Steel and aluminium structures*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10182 (Part 2):1985	Dimensions and tolerances for hot rolled track shoe sections: Part 2: Sec TS - H1	January, 2021	-	Indigenous
2	IS 10182 (Part 1):1982	Dimensions and tolerances for hot rolled track shoe sections: Part 1: Sec TS - L1	January, 2021	-	Indigenous
3	IS 10987:1992	Code of Practice for Design, Fabrication, Testing and Installation of Under - Ground/Above - Ground Horizontal CylindricalSteel Storage Tanks for Petroleum Products (First Revision)	December, 2022	-	Indigenous
4	IS 1173:2025	Hot Rolled and Slit Steel Tee Bars Dimensions and Properties		-	
5	IS 1252:2025	Hot Rolled Steel Sections for Shipbuilding ï¿½ Dimensions and Tolerances		-	Indigenous
6	IS 12779:1989	Rolling and cutting tolerances for hot rolled parallel flange beam and column sections - Specification	March, 2024	-	Indigenous
7	IS 12843:1989	Tolerances for erection of steel structures	January, 2021	-	
8	IS 15663 (Part 1):2006	Design and installation of natural gas pipelines - Code of Practice : Part 1 Laying of pipelines	July, 2021	-	Indigenous
9	IS 15663 (Part 2):2006	Design and installation of natural gas pipelines - Code of Practice : Part 2 Laying of pipelines in crossings	July, 2021	-	Indigenous
10	IS 15663 (Part 3):2006	Design and installation of natural gas pipelines - Code of Practice :	July, 2021	-	Indigenous

		Part 3 Pre-commissioning and commissioning of pipelines			
11	IS 1730:1989 Reaffirmed but not taken up for revision ISO 1035-3:1980	Steel Plates, Sheets Strips and Flats for Structural and General Engineering Purposes - Dimensions (Second Revision)		-	Modified/Technically Equivalent
12	IS 1732:1989 Reaffirmed but not taken up for revision	Steel Bars, Round and Square for Structural and General Engineering Purposes - Dimensions (Second Revision)		-	
13	IS 17740:2022	Amendment No. 1 to IS 17740 : 2022 Isolated Towers, Masts and Poles Using Structural Steel — Code Of Practice		1	Indigenous
14	IS 2314 (Part 1):2023	Steel Sheet Piling Section â€" Specification Part 1 Hot Rolled Sheet Pile (Second Revision)		-	Indigenous
15	IS 2314 (Part 2):2023	Steel Sheet Piling Section â€" Specification Part 2 Cold Formed Sheet Pile (Second Revision)		-	Indigenous
16	IS 2713 (Part 1 to 3):1980	Tubular Steel Poles for Overhead Power Lines	December, 2022	2	
17	IS 2750:1964	Specification for steel scaffoldings	January, 2021	2	Indigenous
18	IS 3443:1980 Reaffirmed but not taken up for revision	SPecification for Crane Rail Sections (First Revision)		1	
19	IS 3908:2025	Aluminium Beam, Channel and Angle Sections ï¿½ Dimensions and Properties		-	
20	IS 3954:1991 Reaffirmed but not taken up for revision	Hot Rolled Steel Channel Sections for General Engineering Purposes - Dimensions (First Revision)	January, 2021	-	
21	IS 3964:1980 Reaffirmed but not taken up for revision	Specifiacation for Light Rails (First Revision)	January, 2021	1	
22	IS 4000:1992	High strength bolts in steel structures - Code of practice (First Revision)	December, 2022	1	Indigenous
23	IS 4014 (Part 1):1967 Reaffirmed but not taken up for revision	Code of practice for steel tubular scaffolding: Part 1 definitions and materials	January, 2021	-	Indigenous
24	IS 5488:1987 Reaffirmed but not taken up for revision ISO 657-10	Dimensions and Dimensional Tolerances for Hot Rolled Steel Plates for Ship's Hull Structure (First Revision)	January, 2021	-	Not Equivalent

25	SP 6-4:1969	Isi handbook for structural engineers: Part 4 use of high strength friction grip bolts		-	Indigenous
26	SP 6-5:1980	Handbook for structural engineers: Part 5 cold - Formed, light gauge steel structures		1	Indigenous
27	SP 6-6:1972	Isi handbook for structural engineers: Part 6 application of plastic theory in design of steel structures: sec A		-	Indigenous
28	IS 6445:1985	Specification for Aluminium Tee - Sections (First Revision)	January, 2021	-	Indigenous
29	IS 6449:1987	Specification for Aluminium Bulb Angles for Marine Application (First Revision)	March, 2024	-	Indigenous
30	IS 6475:1987	Specification for Aluminium Tee bars for Marine Application (First Revision)	March, 2024	-	Indigenous
31	IS 6476:1987	Specification for Aluminium Bulb Plates for Marine Application (First Revision)	March, 2024	-	Indigenous
32	IS 7205:1974	Safety Code for Erection of Structural Steel Work	January, 2021	-	Indigenous
33	IS 7215:1974	Tolerances for fabrication of steel structures	January, 2021	1	Indigenous
34	IS 800:2007	General construction in steel - Code of practice (Third Revision)	December, 2022	2	Indigenous
35	IS 801:1975	Code of practice for use of cold - Formed light gauge steel structural members in general building construction (First Revision)	January, 2021	-	Indigenous
36	IS 802 (Part 4):2023	Use of Structural Steel in Overhead Transmission Line Towers - Code of Practice Part 4 Requirements for Latticed Switchyard Structures		-	Indigenous
37	IS 802 (Part 2):1978	Code of practice for use of structural steel in overhead transmission line towers: Part 2 fabrication galvanizing, inspection and packing	December, 2022	1	Indigenous
38	IS 802 (Part 1/Sec 1):2015	Use of structural steel in overhead transmission line towers - Code of practice: Part 1 materials, loads and design strengths: sec 1 materials and loads (Fourth Revision)	August, 2020	1	Indigenous
39	IS 802 (Part 1/Sec 2):2016	Use of Structural Steel in Overhead Transmission Line Towers - Code of Practice: Part 1 Material, Loads and Design Strengths: Sec 2 Design Strengths (Fourth Revision)	October, 2021	1	Indigenous
40	IS 802 (Part 3):1978	Code of Practice for Use of Structural Steel In Overhead Transmission Line Towers, Part 3 Testing	December, 2022	-	
41	IS 802 (Part 6):2022	Use of Structural Steel in Overhead Transmission Line Towers â€" Code of Practice Part 6 Tower Erection		-	Indigenous
42	IS 803:1976	Code of Practice for Design,	December, 2022	1	

	Reaffirmed but not taken up for revision	Fabrication and Erection of Vertical Mild Steel Cylindrical Welded Oil Storage Tanks (First Revision)			
43	IS 804:1967 Reaffirmed but not taken up for revision	Specification for Rectangular Pressed Steel Tanks (First Revision)	December, 2022	2	Indigenous
44	IS 805:1968 Reviewed In : 2022 Reaffirmed but not taken up for revision	Code of practice for use of steel in gravity water tanks	December, 2022	-	Indigenous
45	IS 806:1968	Code of Practice for Use of Steel Tubes in General Building Construction (First Revision)	December, 2022	-	Indigenous
46	IS 808:2021	Hot Rolled Steel Beam, Column, Channel and Angle Sections - Dimensions and Properties (Fourth Revision)		-	Indigenous
47	IS 8081:1976 Reaffirmed but not taken up for revision	Specification for slotted sections	January, 2021	1	Indigenous
48	IS 811:1987	Specification for cold formed light gauge structural steel sections (Second Revision)	March, 2024	1	Indigenous
49	IS 8147:1976	Code of practice for use of aluminium alloys in structures	January, 2021	-	Indigenous
50	IS 8640:1977 Reaffirmed but not taken up for revision	Recommendations for dimensional parameters for industrial buildings	January, 2021	-	Indigenous
51	IS 9964 (Part 1):1981	Recommendations for maintenance and operation of petroleum storage tanks: Part 1 preparation of tank for safe entry and work	January, 2021	-	Indigenous
52	IS 9964 (Part 2):1981	Recommendations for maintenance and operation of petroleum storage tanks: Part 2 inspection	January, 2021	-	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
No Records Found		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	CED 7 (07850) Revision of: IS 802:2015	Code of Practice for Use of Structural Steel In Overhead Transmission Line Towers Part 1 Materials Loads and Permissible Stresses Section 1 Materials and Loads
2	CED 7 (07851) Revision of: IS 802:2016	Code of Practice for Use of Structural Steel In Overhead Transmission Line Towers Part 1 Material Loads and Permissible Stress Section 2 Design Strengths
3	CED 7 (10425)	Steel Sheet Piling Sections Amendment - 1
4	CED 7 (12288)	Tubular Steel Poles for Overhead Power Lines Amendment - 2
5	CED 7 (14899) Revision of: IS 12778:2004	Hot Rolled Steel Beam Column Channel and Angle Sections - Dimensions and Properties
6	CED 7 (15603)	CODE OF PRACTICE FOR USE OF STRUCTURAL STEEL IN OVERHEAD TRANSMISSION LINE TOWERS PART 6 TOWER ERECTION
7	CED 7 (16789)	High strength bolts in steel structures - Code of practice First Revision Amendment - 1
8	CED 7 (16865)	Isolated Towers Masts and Poles using Structural Steel - Code of Practice
9	CED 7 (17600)	Use of Structural Steel In Overhead Transmission Line Towers Code Of Practice Part 4 Requirements For Latticed Switchyard Structures
10	CED 7 (18972) Revision of: IS 2314:1986	Steel Sheet Piling Section Specification Part 1 Hot Rolled Sheet Pile
11	CED 7 (18973) Revision of: IS 2314:1986	Steel Sheet Piling Section Specification Part 2 Cold Formed Sheet Pile
12	CED 7 (22216) Revision of: IS 1173:1978	Hot Rolled and Slit Steel Tee Bars Dimensions and Properties
13	CED 7 (22217) Revision of: IS 1252:1991	Hot Rolled Steel Sections for Shipbuilding Dimensions and Tolerances
14	CED 7 (22225) Revision of: IS 3908:1986	Aluminium Beam Channel and Angle Sections Dimensions and Properties
15	CED 7 (23584)	General construction in steel - Code of practice Third Revision Amendment - 2
16	CED 7 (23626)	Use of structural steel in overhead transmission line towers - Code of practice Part 1 materials loads and design strengths sec 1 materials and loads Fourth Revision Amendment - 1
17	CED 7 (24910)	Use of structural steel in overhead transmission line towers - Code of practice Part 1 material loads and design strengths sec 2 Design strengths Fourth Revision Amendment - 1
18	CED 7 (26976)	Amendment No 1 to IS 17740 2022 Isolated Towers Masts and Poles Using Structural Steel Code Of Practice
19	CED 7 (27869) Revision of: IS 800:2007	General Construction in Steel Code of Practice Fourth Revision of IS 800

Total Published Standards:52 Total Standards Under development:19

Aspect Wise Report

Product : 13
Code of Practices : 19
Methods of Test : 0
Terminology : 0

Dimensions : 13
System Standard : 0
Safety Standard : 1
Others : 6
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 12778:2004	Hot Rolled Parallel Flange Steel Sections for Beams Columns and Bearing Piles - Dimensions and Section Properties First Revision
2	IS 1731:1971	Dimensions for steel flats for structural and general engineering purposes
3	IS 1863:1979 ISO 657-19	Specification for Rolled Steel Bulb Flats First Revision
4	IS 1864:1979 ISO 657-18	Specification for Hot Rolled Steel 39 L 39 Sections for Ship Building First Revision
5	IS 2314:1986	Steel Sheet Piling Sections
6	SP 38:1987	Handbook of Typified Designs for Structures With Steel Roof Trusses With and Without Cranes Based on IS Codes
7	IS 3909:1986	Specification for Aluminium Unequal Leg Angles First Revision
8	IS 3921:1985	Specification for Aluminium Channels First Revision
9	SP 40:1987	Handbook on Structures With Steel Portal Frames Without Cranes
10	SP 47:1988	Handbook on Structures with Steel Lattice Portal Frames Without Cranes
11	IS 5384:1985	Specification for Aluminium I-Beam First Revision
12	SP 6-1:1964	Handbook for Structural Engineers - Part-1 Structural Steel Sections
13	SP 6-2:1962	Handbook for Structural Engineers -Part-2 Steel Beams and Plate Girders
14	SP 6-3:1962	Handbook on Structural Engineers - Part-3 Steel Columns and Struts
15	SP 6-7:1972	ISI Handbook for Structural Engineers - Part 7 Simple Welded Girders

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 2314 (Part 1):2023	Steel Sheet Piling Section Specification Part 1 Hot Rolled Sheet Pile Second Revision
2	IS 2314 (Part 2):2023	Steel Sheet Piling Section Specification Part 2 Cold Formed Sheet Pile Second Revision
3	IS 2713 (Part 1 to 3):1980	Tubular Steel Poles for Overhead Power Lines
4	IS 2750:1964	Specification for steel scaffoldings
5	IS 3964:1980 Reaffirmed but not taken up for revision	Specifiacation for Light Rails First Revision
6	IS 6445:1985	Specification for Aluminium Tee - Sections First Revision

7	IS 6449:1987	Specification for Aluminium Bulb Angles for Marine Application First Revision
8	IS 6475:1987	Specification for Aluminium Tee bars for Marine Application First Revision
9	IS 6476:1987	Specification for Aluminium Bulb Plates for Marine Application First Revision
10	IS 804:1967 Reaffirmed but not taken up for revision	Specification for Rectangular Pressed Steel Tanks First Revision
11	IS 8081:1976 Reaffirmed but not taken up for revision	Specification for slotted sections
12	IS 811:1987	Specification for cold formed light gauge structural steel sections Second Revision