

# 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*

## Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10182 (Part 1):1982 <i>Reviewed In : 2021</i>	Dimensions and tolerances for hot rolled track shoe sections: Part 1: Sec TS - L1	January, 2021	-	Indigenous
2	IS 10182 (Part 2):1985 <i>Reviewed In : 2021</i>	Dimensions and tolerances for hot rolled track shoe sections: Part 2: Sec TS - H1	January, 2021	-	Indigenous
3	IS 10987:1992 <i>Reviewed In : 2022</i>	Code of Practice for Design, Fabrication, Testing and Installation of Under - Ground/Above - Ground Horizontal Cylindrical Steel 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 $\frac{1}{2}$ Dimensions and Tolerances		-	Indigenous
6	IS 12778:2004 <i>Reviewed In : 2019</i>	Hot rolled parallel flange steel sections for beams, columns and bearing piles - Dimensions and section properties		-	Indigenous
7	IS 12779:1989 <i>Reviewed In : 2024</i>	Rolling and cutting tolerances for hot rolled parallel flange beam and column sections - Specification	March, 2024	-	Indigenous
8	IS 12843:1989 <i>Reviewed In : 2021</i>	Tolerances for erection of steel structures	January, 2021	-	
9	IS 15663 (Part 1):2006 <i>Reviewed In : 2021</i>	Design and installation of natural gas pipelines - Code of Practice : Part 1 Laying of pipelines	July, 2021	-	Indigenous
10	IS 15663 (Part 2):2006 <i>Reviewed In : 2021</i>	Design and installation of natural gas pipelines - Code of Practice : Part 2 Laying of pipelines in	July, 2021	-	Indigenous

		crossings			
11	IS 15663 (Part 3):2006 Reviewed In : 2021	Design and installation of natural gas pipelines - Code of Practice : Part 3 Pre-commissioning and commissioning of pipelines	July, 2021	-	Indigenous
12	IS 1730:1989 Reviewed In : 2019 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
13	IS 1732:1989 Reviewed In : 2019 Reaffirmed but not taken up for revision	Steel Bars, Round and Square for Structural and General Engineering Purposes - Dimensions (Second Revision)		-	
14	IS 17740:2022	Isolated Towers, Masts and Poles using Structural Steel - Code of Practice		-	Indigenous
15	IS 2314 (Part 1):2023	Steel Sheet Piling Section “S” Specification Part 1 Hot Rolled Sheet Pile (Second Revision)		-	Indigenous
16	IS 2314 (Part 2):2023	Steel Sheet Piling Section “S” Specification Part 2 Cold Formed Sheet Pile (Second Revision)		-	Indigenous
17	IS 2713 (Part 1 to 3):1980 Reviewed In : 2022	Tubular Steel Poles for Overhead Power Lines	December, 2022	2	
18	IS 2750:1964 Reviewed In : 2021	Specification for steel scaffoldings	January, 2021	3	Indigenous
19	IS 3443:1980 Reviewed In : 2019 Reaffirmed but not taken up for revision	Specification for Crane Rail Sections (First Revision)		1	
20	IS 3908:2025	Aluminium Beam, Channel and Angle Sections $\frac{1}{2}$ Dimensions and Properties		-	
21	IS 3954:1991 Reaffirmed but not taken up for revision	Hot Rolled Steel Channel Sections for General Engineering Purposes - Dimensions (First Revision)	January, 2021	-	
22	IS 3964:1980 Reviewed In : 2021 Reaffirmed but not taken up for revision	Specification for Light Rails (First Revision)	January, 2021	1	
23	IS 4000:1992 Reviewed In : 2022	High strength bolts in steel structures - Code of practice (First Revision)	December, 2022	1	Indigenous
24	IS 4014 (Part 1):1967 Reviewed In : 2021 Reaffirmed but not taken up for revision	Code of practice for steel tubular scaffolding: Part 1 definitions and materials	January, 2021	-	Indigenous
25	IS 5488:1987 Reviewed In : 2021 Reaffirmed but not	Dimensions and Dimensional Tolerances for Hot Rolled Steel Plates for Ship's Hull Structure	January, 2021	-	Not Equivalent

	taken up for revision ISO 657-10	(First Revision)			
26	SP 6-4:1969	Isi handbook for structural engineers: Part 4 use of high strength friction grip bolts		-	Indigenous
27	SP 6-5:1980	Handbook for structural engineers: Part 5 cold - Formed, light gauge steel structures		1	Indigenous
28	SP 6-6:1972	Isi handbook for structural engineers: Part 6 application of plastic theory in design of steel structures: sec A		-	Indigenous
29	IS 6445:1985	Specification for Aluminium Tee - Sections (First Revision)	January, 2021	-	Indigenous
30	IS 6449:1987 Reviewed In : 2024	Specification for Aluminium Bulb Angles for Marine Application (First Revision)	March, 2024	-	Indigenous
31	IS 6475:1987 Reviewed In : 2024	Specification for Aluminium Tee bars for Marine Application (First Revision)	March, 2024	-	Indigenous
32	IS 6476:1987 Reviewed In : 2024	Specification for Aluminium Bulb Plates for Marine Application (First Revision)	March, 2024	-	Indigenous
33	IS 7205:1974 Reviewed In : 2021	Safety Code for Erection of Structural Steel Work	January, 2021	-	Indigenous
34	IS 7215:1974 Reviewed In : 2021	Tolerances for fabrication of steel structures	January, 2021	1	Indigenous
35	IS 800:2007 Reviewed In : 2022	General construction in steel - Code of practice (Third Revision)	December, 2022	2	Indigenous
36	IS 801:1975 Reviewed In : 2021	Code of practice for use of cold - Formed light gauge steel structural members in general building construction (First Revision)	January, 2021	1	Indigenous
37	IS 802 (Part 1/Sec 1):2015 Reviewed In : 2020	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
38	IS 802 (Part 1/Sec 2):2016 Reviewed In : 2021	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
39	IS 802 (Part 2):1978 Reviewed In : 2022	Code of practice for use of structural steel in overhead transmission line towers: Part 2 fabrication galvanizing, inspection and packing	December, 2022	1	Indigenous
40	IS 802 (Part 3):1978 Reviewed In : 2022	Code of Practice for Use of Structural Steel In Overhead Transmission Line Towers, Part 3 Testing	December, 2022	-	
41	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
42	IS 802 (Part 6):2022	Use of Structural Steel in Overhead Transmission Line Towers “ Code of Practice Part 6 Tower		-	Indigenous

		Erection			
43	IS 803:1976 Reviewed In : 2022 Reaffirmed but not taken up for revision	Code of Practice for Design, Fabrication and Erection of Vertical Mild Steel Cylindrical Welded Oil Storage Tanks (First Revision)	December, 2022	1	
44	IS 804:1967 Reviewed In : 2022 Reaffirmed but not taken up for revision	Specification for Rectangular Pressed Steel Tanks (First Revision)	December, 2022	2	Indigenous
45	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
46	IS 806:1968 Reviewed In : 2022	Code of Practice for Use of Steel Tubes in General Building Construction (First Revision)	December, 2022	1	Indigenous
47	IS 808:2021	Hot Rolled Steel Beam, Column, Channel and Angle Sections - Dimensions and Properties (Fourth Revision)		-	Indigenous
48	IS 8081:1976 Reviewed In : 2021 Reaffirmed but not taken up for revision	Specification for slotted sections	January, 2021	1	Indigenous
49	IS 811:1987 Reviewed In : 2024	Specification for cold formed light gauge structural steel sections (Second Revision)	March, 2024	1	Indigenous
50	IS 8147:1976	Code of practice for use of aluminium alloys in structures	January, 2021	-	Indigenous
51	IS 8640:1977 Reviewed In : 2021 Reaffirmed but not taken up for revision	Recommendations for dimensional parameters for industrial buildings	January, 2021	-	Indigenous
52	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
53	IS 9964 (Part 2):1981 Reviewed In : 2021	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		
Sl. No.	Doc No.	Title
No Records Found		
Draft Standards Completed WC Stage		
Sl. No.	Doc No.	Title
No Records Found		
Finalized Draft Indian Standard		
Sl. No.	Doc No.	Title
1	CED 7 (26976)	Isolated Towers Masts and Poles using Structural Steel - Code of Practice Amendment - 1
2	CED 7 (27869) Amendment of: IS 800:2007	General Construction in Steel Code of Practice Fourth Revision of IS 800
Finalized Draft Indian Standards under Print		
Sl. No.	Doc No.	Title
No Records Found		
Total Published Standards:51 Total Standards Under development:2		
Aspect Wise Report		
Product : 13 Code of Practices : 19 Methods of Test : 0 Terminology : 0 Dimensions : 14 System Standard : 0 Safety Standard : 1 Others : 6 Service Specification : 0 Process Specification : 0 Unclassified : 0		
Annexure-I :List of Indian Standards Withdrawn/Superseded		
Sl. No.	IS No. & Year	Title
1	IS 1731:1971	Dimensions for steel flats for structural and general engineering purposes
2	IS 1863:1979 Reviewed In : 2024 ISO 657-19	Specification for Rolled Steel Bulb Flats First Revision
3	IS 1864:1979 Reviewed In : 2024 ISO 657-18	Specification for Hot Rolled Steel 39 L 39 Sections for Ship Building First Revision
4	IS 2314:1986 Reviewed In : 2017	Steel Sheet Piling Sections
5	SP 38:1987	Handbook of Typified Designs for Structures With Steel Roof Trusses With and Without Cranes Based on IS Codes
6	IS 3909:1986 Reviewed In : 2022	Specification for Aluminium Unequal Leg Angles First Revision
7	IS 3921:1985 Reviewed In : 2021	Specification for Aluminium Channels First Revision
		Handbook on Structures With Steel Portal Frames Without Cranes

8	SP 40:1987	
9	SP 47:1988	Handbook on Structures with Steel Lattice Portal Frames Without Cranes
10	IS 5384:1985 Reviewed In : 2021	Specification for Aluminium I-Beam First Revision
11	SP 6-1:1964	Handbook for Structural Engineers - Part-1 Structural Steel Sections
12	SP 6-2:1962	Handbook for Structural Engineers -Part-2 Steel Beams and Plate Girders
13	SP 6-3:1962	Handbook on Structural Engineers - Part-3 Steel Columns and Struts
14	SP 6-7:1972 Reviewed In : 2010	ISI Handbook for Structural Engineers - Part 7 Simple Welded Girders

<b>Annexure-II :List of Indian Product Standards</b>
--

Sl. 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 Reviewed In : 2022	Tubular Steel Poles for Overhead Power Lines
4	IS 2750:1964 Reviewed In : 2021	Specification for steel scaffoldings
5	IS 3964:1980 Reviewed In : 2021 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 Reviewed In : 2024	Specification for Aluminium Bulb Angles for Marine Application First Revision
8	IS 6475:1987 Reviewed In : 2024	Specification for Aluminium Tee bars for Marine Application First Revision
9	IS 6476:1987 Reviewed In : 2024	Specification for Aluminium Bulb Plates for Marine Application First Revision
10	IS 804:1967 Reviewed In : 2022 Reaffirmed but not taken up for revision	Specification for Rectangular Pressed Steel Tanks First Revision
11	IS 8081:1976 Reviewed In : 2021 Reaffirmed but not taken up for revision	Specification for slotted sections
12	IS 811:1987 Reviewed In : 2024	Specification for cold formed light gauge structural steel sections Second Revision