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

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S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10182 (Part 1) :	Dimensions and tolerances for hot	January, 2021	-	Indigenous
	1982	rolled track shoe sections: Part 1:			
	Reviewed In : 2021	Sec TS - L1			
2	IS 10182 (Part 2):	Dimensions and tolerances for hot	January, 2021	-	Indigenous
	1985	rolled track shoe sections: Part 2:			
	Reviewed In : 2021	Sec TS - H1			
3	IS 10987 : 1992	Code of Practice for Design,	December, 2022	-	Indigenous
	Reviewed In : 2022	Fabrication, Testing and			
		Installation of Under -			
		Ground/Above - Ground			
		Horizontal CylindricalSteel Storage			
		Tanks for Petroleum Products			
		(First Revision)			
4	IS 1173 : 1978	Specfication for Hot Rolled and	March, 2024	-	
	Reviewed In: 2024	Slit Steel Tee Bars (Second			
		Revision)			
5	IS 1252 : 1991	Hot Rolled Steel Bulb Angles -	December, 2022	-	Indigenous
	Reviewed In: 2022	Dimensions (First Revision)			
6	IS 12778 : 2004	Hot rolled parallel flange steel		-	Indigenous
	Reviewed In: 2019	sections for beams, columns and			
		bearing piles - Dimensions and			
		section properties			
7	IS 12779 : 1989	Rolling and cutting tolerances for	March, 2024	-	Indigenous
	Reviewed In: 2024	hot rolled parallel flange beam and			
		column sections - Specification			
8	IS 12843 : 1989	Tolerances for erection of steel	January, 2021	-	
	Reviewed In : 2021	structures	-		
9	IS 15663 (Part 1):	Design and installation of natural	July, 2021	-	Indigenous
	2006	gas pipelines - Code of Practice :	-		-
	Reviewed In : 2021	Part 1 Laying of pipelines			
10	IS 15663 (Part 2):	Design and installation of natural	July, 2021	-	Indigenous
	2006	gas pipelines - Code of Practice :	.		č
	2000				

	I	crossings			
11	IS 15663 (Part 3) :	Design and installation of natural	July, 2021	-	Indigenous
	2006	gas pipelines - Code of Practice :			
	Reviewed In: 2021	Part 3 Pre-commissioning and			
		commissioning of pipelines			
12	IS 1730 : 1989	Steel Plates, Sheets Strips and		-	Modified/Technically
	Reviewed In : 2019	Flats for Structural and General			Equivalent
	Reaffirmed but not	Engineering Purposes - Dimensions			1
	taken up for revision				
	ISO 1035-3:1980				
13	IS 1732 : 1989	Steel Bars, Round and Square for		-	
		Structural and General Engineering			
	Reaffirmed but not	Purposes - Dimensions (Second			
	taken up for revision				
14	IS 17740 : 2022	Isolated Towers, Masts and Poles		_	Indigenous
••	10 1 / / 10 1 2022	using Structural Steel - Code of			mangeneae
		Practice			
15	IS 1863 : 1979	Specification for Rolled Steel Bulb	March, 2024	_	Identical under dual
15	ISO 657-19	Flats (First Revision)	March, 2024		numbering
	Reviewed In : 2024				numbering
	ISO 657-19				
16	IS 1864 : 1979	Specification for Hot Rolled Steel	March, 2024		Not Equivalent
10	ISO 657-18	'L' Sections for Ship Building (First	Watch, 2024	-	Not Equivalent
	Reviewed In : 2024	Revision)			
		Revision)			
17	ISO 657-18	Steel Sheet Diling Section &C"			Indianaus
17	IS 2314 (Part 1) :	Steel Sheet Piling Section â€"		-	Indigenous
	2023	Specification Part 1 Hot Rolled			
10	10.0014 (D 0)	Sheet Pile (Second Revision)			
18	IS 2314 (Part 2) :	Steel Sheet Piling Section —		-	Indigenous
	2023	Specification Part 2 Cold Formed			
		Sheet Pile (Second Revision)			
19	IS 2713 (Part 1 to 3)		December, 2022	2	
	: 1980	Power Lines			
	Reviewed In : 2022				
20	IS 2750 : 1964	Specification for steel scaffoldings	January, 2021	3	Indigenous
	Reviewed In: 2021				
21	IS 3443 : 1980	SPecification for Crane Rail		1	
	Reviewed In : 2019	Sections (First Revision)			
	Reaffirmed but not				
	taken up for revision				
22	IS 3908 : 1986	Specification for Aluminium Equal	December, 2022	-	
	Reviewed In : 2022	Leg Angles (First Revision)			
23	IS 3909 : 1986	Specification for Aluminium	December, 2022	-	
	Reviewed In : 2022	Unequal Leg Angles (First			
		Revision)			
24	IS 3921 : 1985	Specification for Aluminium	January, 2021	_	
	Reviewed In : 2021	Channels (First Revision)	-		
25	IS 3954 : 1991	Hot Rolled Steel Channel Sections	January, 2021	-	
		for General Engineering Purposes -			
	Reaffirmed but not	Dimensions (First Revision)			
	taken up for revision				
	IS 3964 : 1980	Specifiacation for Light Rails	January, 2021	1	
26		(First Revision)			
26	Reviewed In: 2021				
26		(Thist Revision)			
26	Reviewed In : 2021 Reaffirmed but not taken up for revision				

27	IS 4000 : 1992 Reviewed In : 2022	High strength bolts in steel structures - Code of practice (First Revision)	December, 2022	1	Indigenous
28	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
29	IS 5384 : 1985 Reviewed In : 2021	Specification for Aluminium I- Beam (First Revision)	January, 2021	-	
30	IS 5488 : 1987 Reviewed In : 2021 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
31	SP 6-4 : 1969	Isi handbook for structural engineers: Part 4 use of high strength friction grip bolts		-	Indigenous
32	SP 6-5 : 1980	Handbook for structural engineers: Part 5 cold - Formed, light gauge steel structures		1	Indigenous
33	SP 6-6 : 1972	Isi handbook for structural engineers: Part 6 application of plastic theory in design of steel structures: sec A		-	Indigenous
34	IS 6445 : 1985 Reviewed In : 2021	Specification for Aluminium Tee - Sections (First Revision)	January, 2021	-	Indigenous
35	IS 6449 : 1987 Reviewed In : 2024	Specification for Aluminium Bulb Angles for Marine Application (First Revision)	March, 2024	-	Indigenous
36	IS 6475 : 1987 Reviewed In : 2024	Specification for Aluminium Tee bars for Marine Application (First Revision)	March, 2024	-	Indigenous
37	IS 6476 : 1987 Reviewed In : 2024	Specification for Aluminium Bulb Plates for Marine Application (First Revision)	March, 2024	-	Indigenous
38	IS 7205 : 1974 Reviewed In : 2021	Safety Code for Erection of Structural Steel Work	January, 2021	-	Indigenous
39	IS 7215 : 1974 Reviewed In : 2021	Tolerances for fabrication of steel structures	January, 2021	1	Indigenous
40	IS 800 : 2007 Reviewed In : 2022	General construction in steel - Code of practice (Third Revision)	December, 2022	2	Indigenous
41	IS 801 : 1975	Code of practice for use of cold - Formed light gauge steel structural members in general building construction (First Revision)	January, 2021	1	Indigenous
42	: 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
43	: 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	-	Indigenous
44	IS 802 (Part 2) : 1978	Code of practice for use of structural steel in overhead	December, 2022	1	Indigenous

	Reviewed In : 2022	transmission line towers: Part 2 fabrication galvanizing, inspection and packing			
45	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	-	
46	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
47	2022	Use of Structural Steel in Overhead Transmission Line Towers — Code of Practice Part 6 Tower Erection		-	Indigenous
48	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	
49	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
50	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
51	IS 806 : 1968 Reviewed In : 2022	Code of Practice for Use of Steel Tubes in General Building Construction (First Revision)	December, 2022	1	Indigenous
52	IS 808 : 2021	Hot Rolled Steel Beam, Column, Channel and Angle Sections â€" Dimensions and Properties (Fourth Revision)		-	Indigenous
53	IS 8081 : 1976 Reviewed In : 2021 Reaffirmed but not taken up for revision	Specification for slotted sections	January, 2021	1	Indigenous
54	IS 811 : 1987 Reviewed In : 2024	Specification for cold formed light gauge structural steel sections (Second Revision)	March, 2024	1	Indigenous
55	IS 8147 : 1976 Reviewed In : 2021	Code of practice for use of aluminium alloys in structures	January, 2021	-	Indigenous
56	IS 8640 : 1977 Reviewed In : 2021 Reaffirmed but not taken up for revision	Recommendations for dimensional parameters for industrial buildings	January, 2021	-	Indigenous
57	IS 9964 (Part 1) : 1981 Reviewed In : 2021	Recommendations for maintenance and operation of petroleum storage tanks: Part 1 preparation of tank for safe entry and work	January, 2021	-	Indigenous
58	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
SI. No.	Doc No.	Drafts Standards in WC Stage 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 (22216) Revision of:	Hot Rolled and Slit Steel Tee Bars Dimensions and Properties			
	IS 1173:1978				
2	CED 7 (22217) Revision of:	Hot Rolled Steel Sections for Shipbuilding Dimensions and Tolerances			
	IS 1252:1991				
3	CED 7 (22225) Revision of:	Aluminium Beam Channel and Angle Sections Dimensions and Properties			
	IS 3908:1986				
4	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			

Total Published Standards:56 Total Standards Under development:4

Aspect Wise Report

Product : 20 Code of Practices : 19 Methods of Test : 0 Terminology : 0 Dimensions : 12 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 1731 : 1971	Dimensions for steel flats for structural and general engineering purposes
2	IS 2314 : 1986 Reviewed In : 2017	Steel Sheet Piling Sections
3	SP 38 : 1987	Handbook of Typified Designs for Structures With Steel Roof Trusses With and Without Cranes Based on IS Codes
4	SP 40 : 1987	Handbook on Structures With Steel Portal Frames Without Cranes
5	SP 47 : 1988	Handbook on Structures with Steel Lattice Portal Frames Without Cranes
6	SP 6-1 : 1964	Handbook for Structural Engineers - Part-1 Structural Steel Sections
7	SP 6-2 : 1962	Handbook for Structural Engineers -Part-2 Steel Beams and Plate Girders
8	SP 6-3 : 1962	Handbook on Structural Engineers - Part-3 Steel Columns and Struts
9	SP 6-7 : 1972 Reviewed In : 2010	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 1173 : 1978	Specification for Hot Rolled and Slit Steel Tee Bars Second Revision			
	Reviewed In : 2024				
2	IS 1863 : 1979	Specification for Rolled Steel Bulb Flats First Revision			
	ISO 657-19				
	Reviewed In : 2024 ISO				
	657-19				
3	IS 1864 : 1979	Specification for Hot Rolled Steel 39 L 39 Sections for Ship Building First Revision			
	ISO 657-18				
	Reviewed In : 2024 ISO				
	657-18				
4	IS 2314 (Part 1) : 2023	Steel Sheet Piling Section Specification Part 1 Hot Rolled Sheet Pile Second Revision			
5	IS 2314 (Part 2) : 2023	Steel Sheet Piling Section Specification Part 2 Cold Formed Sheet Pile Second Revision			
6	IS 2713 (Part 1 to 3) : 1980	Tubular Steel Poles for Overhead Power Lines			
	Reviewed In : 2022				
7	IS 2750 : 1964	Specification for steel scaffoldings			
	Reviewed In : 2021				
8	IS 3908 : 1986	Specification for Aluminium Equal Leg Angles First Revision			
	Reviewed In : 2022				
9	IS 3909 : 1986	Specification for Aluminium Unequal Leg Angles First Revision			
	Reviewed In : 2022				
10	IS 3921 : 1985	Specification for Aluminium Channels First Revision			
	Reviewed In : 2021				
11	IS 3964 : 1980	Specifiacation for Light Rails First Revision			
	Reviewed In : 2021				
	Reaffirmed but not taken up				
	for revision				
12	IS 5384 : 1985	Specification for Aluminium I-Beam First Revision			
	Reviewed In : 2021				
13	IS 6445 : 1985	Specification for Aluminium Tee - Sections First Revision			
	Reviewed In : 2021				
14	IS 6449 : 1987	Specification for Aluminium Bulb Angles for Marine Application First Revision			
	Reviewed In : 2024				
15	IS 6475 : 1987	Specification for Aluminium Tee bars for Marine Application First Revision			

	Reviewed In : 2024	
16	IS 6476 : 1987	Specification for Aluminium Bulb Plates for Marine Application First Revision
	Reviewed In : 2024	
17	IS 804 : 1967	Specification for Rectangular Pressed Steel Tanks First Revision
	Reviewed In : 2022	
	Reaffirmed but not taken up	
	for revision	
18	IS 8081 : 1976	Specification for slotted sections
	Reviewed In : 2021	
	Reaffirmed but not taken up	
	for revision	
19	IS 811 : 1987	Specification for cold formed light gauge structural steel sections Second Revision
	Reviewed In : 2024	