

## Indian Standard code & Specifications

### **National Building Code**

SP 7 : 1983 National buiding code of India 1983

### **Loads**

IS 875 : Part 1 : 1987 Code of practice for design loads (other than earthquake)for buildings and structures Part 1 Dead loads - Unit weights of building material and stored materials (Incorporating IS:1911-1967)

IS 875 : Part 2 : 1987 Code of practice for design loads (other than earthquake) for buildings and structures: Part 2 Imposed loads

IS 875 : Part 3 : 1987 Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures - Part 3 : Wind Loads

IS 875 : Part 4 : 1987 Code of practice for design loads (other than earthquake) for buildings and structures Part 4 Snow loads

IS 875 : Part 5 : 1987 Code of practice for design loads (other than earthquake) for buildings and structures Part 5 Special loads and load combinations



### **Reinforced concrete-Codes of practise**

SP 16 : 1980 Design Aids for Reinforced Concrete to IS 456 : 1978

SP 24 (S and T) : 1983 Explanatory Handbook on Indian Standard Code of Practice for Plain and Reinforced Concrete

SP 34 : 1987 Handbook on Concrete Reinforcement and Detailing

IS 456 : 2000 Plain and Reinforced Concrete - Code of Practice

IS 3370 : Part 1 : 1965 Code of practice for concrete structures for the storage of liquids: Part 1 General requirements

IS 3370 : Part 2 : 1965 Code of practice for concrete structures for the storage of liquids: Part 2 Reinforced concrete structures

IS 3370 : Part 3 : 1967 Code of practice for concrete structures for the storage of liquids: Part 3 Prestressed concrete structures

IS 3370 : Part 4 : 1967 Code of practice for concrete structures for the storage of liquids: Part 4 Design tables

IS 457 : 1957 Code of practice for general construction of plain and reinforced concrete for dams and other massive structures

IS 2502 : 1963 Code of Practice for Bending and Fixing of Bars for Concrete Reinforcement

IS 4926 : 2003 Ready-Mixed Concrete - Code of Practice

IS 5525 : 1969 Recommendations for Detailing of Reinforcement in Reinforced Concrete Works

IS 7861 : Part 1 : 1975 Code of practice for extreme weather concreting Part 1 Recommended practice for hot weather concreting

IS 7861 : Part 2 : 1981 Code of practice for extreme weather concreting: Part II Recommended practice for cold weather concreting



### **Structural Steel Sections**

- IS 808 : 1989 Dimensions for Hot Rolled Steel Beam, Column, Channel and Angle Sections
- IS 811 : 1987 Cold formed light gauge structural steel sections
- IS 1173 : 1978 Hot rolled slit steel tee bars
- IS 1252 : 1991 Dimensions of hot rolled steel bulb angles
- IS 1730 : 1989 Dimensions for steel plates,sheets strips and flats for general engineering purposes
- IS 1732 : 1989 Dimensions for round and square steel bars for structural and general engineering purposes
- IS 1852 : 1985 Rolling and cutting tolerances for hot rolled steel products
- IS 1863 : 1979 Hot rolled steel bulb flats
- IS 1864 : 1979 Hot-rolled steel L-sections for shipbuilding
- IS 2314 : 1986 Specification for Steel Sheet Piling Sections
- IS 2713 : Parts I to III : 1980 Specification for Tubular Steel Poles for Overhead Power Lines
- IS 3443 : 1980 Crane rail sections
- IS 7452 : 1990 Specification for hot-rolled steel sections for doors, windows and ventilators
- IS 10182 : Part 2 : 1985 Dimensions and tolerances for hot-rolled track shoe sections
- IS 10182 : Part I : 1982 Dimensions and Tolerances for Hot Rolled Track Shoe Sections - Part I : Section TS-L1
- IS 12778 : 1989 Hot rolled steel parallel flange beam and column sections - Dimensions
- IS 12779 : 1989 Rolling and cutting tolerances for hot rolled parallel flange beam and column sections



## Structural Steel

IS 800 : 1984 Code of practice for general construction in steel

IS 801 : 1975 Code of practice for use of cold formed light gauge steel structural members in general building construction

IS 802 : Part 1 : Sec 1 : 1995 Code of practice for use of structural steel in overhead transmission line towers, Part 1 Materials and Loads and permissible stresses Section 1 Materials and Loads

IS 802 : Part 1 : Sec 2 : 1992 Code of practice for use of structural steel in overhead transmission line towers Part 1 : Material, loads and permissible stress Section 2 Permissible stress

IS 802 : Part II : 1978 Code of Practice for Use of Structural Steel in Overhead Transmission Line Towers - Part II : Fabrication, Galvanizing, Inspection and Packing

IS 802 : Part 3 : 1978 Code of practice for use of structural steel in overhead transmission line towers, part 3 Testing

IS 803 : 1976 Code of Practice for Design Fabrication and Erection of Vertical Mild Steel Cylindrical Welded Oil Storage Tanks

IS 804 : 1967 Rectangular pressed steel tanks

IS 805 : 1968 Code of Practice for Use of Steel in Gravity Water Tanks

IS 806 : 1968 Code of practice for use of steel tubes in general building construction

IS 2750 : 1964 Specification for Steel Scaffoldings

IS 4000 : 1992 Code of practice for high strength bolts in steel structures

IS 4014 : Part 1 : 1967 Code of practice for steel tubular scaffolding Part 1 Definitions and materials

IS 6533 : Part 1 : 1989 Code of practice for design and construction of steel chimneys Part 1 Mechanical aspects )

IS 6533 : Part 2 : 1989 Code of practice for design and construction of steel chimneys Part 2 Structural aspects



IS 7205 : 1974 Safety Code for Erection of Structural Steelwork

IS 7215 : 1974 Tolerances for fabrication of steel structures

IS 8081 : 1976 Specification for slotted sections

IS 8640 : 1977 Recommendations for dimensional parameters for industrial building

IS 9178 : Part 1 : 1979 Criteria for design of steel bins for storage of bulk materials Part 1 General requirements and assessment of loads

IS 9178 : Part 2 : 1979 Criteria for design of steel bins for storage of bulk material Part 2 Design storage criteria

IS 9178 : Part 3 : 1980 Criteria for design of steel bins for storage of bulk materials Part 3 Bins designed for mass flow and funnel flow

IS 9964 : Part 1 : 1981 Recommendations for maintenance and operation of petroleum storage tanks Part 1 Preparation of tanks for safe entry and work

IS 9964 : Part II : 1981 Recommendations for Maintenance and Operation of Petroleum Storage Tanks - Part II : Inspection

IS 10987 : 1992 Code of practice for design, fabrication, testing and installation of underground/above ground horizontal cylindrical storage tanks for petroleum products

IS 12843 : 1989 Tolerances for erection of steel structures



**Earthquake resistant structures**

SP 22 : 1982 Explanatory Handbook on Codes for Earthquake Engineering

IS 1893 : 1984 Criteria for earthquake resistant design of structures

IS 1893 : Part 1 : 2002 Criteria for Earthquake Resistant Design of Structures - Part 1 : General Provisions and Buildings

IS 4326 : 1993 Code of practice for earthquake resistant design and construction of buildings

IS 4967 : 1968 Recommendations for seismic instrumentation for river valley projects

IS 13827 : 1993 Improving earthquake resistance of earthen buildings - Guidelines

IS 13828 : 1993 Improving earthquake resistance of low strength masonry buildings - Guidelines

IS 13920 : 1993 Ductile detailing of reinforced concrete structures subjected to seismic forces - Code of practice

IS 13935 : 1993 Guidelines for repair and seismic strengthening of buildings

**Blast Resistant design**

IS 4991 : 1968 Criteria for blast resistant design of structures for explosions above ground

IS 6922 : 1973 Criteria for safety and design of structures subject to underground blasts



**Special structures**

SP 43 (S and T) : 1987 Handbook on Structures with Reinforced Concrete Portal Frames (Without Cranes)

SP 64 (S & T) : 2001 Explanatory Handbook on Indian Standard Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures

IS 2210 : 1988 Criteria for design of reinforced concrete shell structures and folded plates

IS 3935 : 1966 Code of practice for composite construction

IS 4090 : 1967 Criteria for design of reinforced concrete arches

IS 4995 : Part I : 1974 Criteria for design of reinforced concrete bins for storage of granular and powdery materials: Part I General requirements and assessment of bin loads

IS 4995 : Part II : 1974 Criteria for Design of Reinforced Concrete Bins for Storage of Granular and Powdery Materials - Part II : Design Criteria

IS 4998 : Part 1 : 1992 Criteria for design of reinforced concrete chimneys: Part 1 Assessment of loads

IS 11384 : 1985 Code of Practice for Composite Construction in Structural Steel and Concrete

IS 11504 : 1985 Criteria for structural design of reinforced concrete natural draught cooling towers

IS 11682 : 1985 Criteria for design of RCC staging for overhead water tanks

IS 12303 : 1987 Criteria for design of RCC hinges

IS 8888 : Part 1 : 1993 Guide for requirements of low income housing Part 1 Urban area

IS 13727 : 1993 Guide for requirements of cluster planning for housing

IS 14213 : 1994 Code of practice for construction of walls using precast concrete stone masonry blocks

SP 47 (S and T) : 1988 Handbook on Structures with Steel Lattice Portal Frames (Without Cranes)



### **Offshore structures**

IS 13519 : 1992 Guidelines for inspection of fixed steel offshore structures during fabrication and installation

IS 13746 : 1993 Code of practice for geotechnical investigation of offshore jacket structure

IS 13802 : 1993 Guidelines for planning and execution of seabed engineering (Geophysical) survey for offshore platforms and pipelines

### **Prestressed Concrete**

IS 432 : Part 1 : 1982 Specification for mild steel and medium tensile steel bars and hard-drawn steel wire for concrete reinforcement: Part I Mild steel and medium tensile steel bars

IS 432 : Part 2 : 1982 Specification for mild steel and medium tensile steel bars and hard-drawn steel wire for concrete reinforcement: Part 2 Hard-drawn steel wire

IS 1566 : 1982 Specification for Hard-drawn Steel Wire Fabric for Concrete Reinforcement

IS 1785 : Part 2 : 1983 Specification for plain hard-drawn steel wire for prestressed concrete: Part 2 As drawn wire

IS 1785 : Part I : 1983 Specification for Plain Hard-drawn Steel Wire for Prestressed Concrete - Part I : Cold Drawn Stress-relieved Wire

IS 1786 : 1985 Specification for high strength deformed steel bars and wires for concrete reinforcement (superseding IS:1139-1966)

IS 2090 : 1983 Specification for high tensile steel bars used in prestressed concrete

IS 6003 : 1983 Specification for indented wire for prestressed concrete

IS 10790 : Part 1 : 1984 Methods of sampling of steel for prestressed and reinforced concrete part 1 Prestressing steel

IS 10790 : Part 2 : 1984 Methods of sampling of steel for prestressed and reinforced concrete Part 2 Reinforcing steel

IS 13620 : 1993 Specification for fusion bonded epoxy coated reinforcing bars

IS 14268 : 1995 Specification for uncoated stress relieved low relaxation seven ply strand for prestressed concrete



### Harbour Engineering

IS 4651 : Part 1 : 1974 Code of practice for planning and design of ports and harbours: Part 1 Site investigation

IS 4651 : Part 2 : 1989 Code of practice for planning and design of ports and harbours: Part 2 Earth pressure

IS 4651 : Part 4 : 1989 Code of practice for planning and design of ports and harbours: Part 4 General design consideration

IS 4651 : Part 5 : 1980 Code of practice for planning and design of ports and harbours: Part 5 Layout and functional requirements

IS 4651 : Part III : 1974 Code of Practice for Planning and Design of Ports and Harbours - Part III : Loading

IS 7314 : 1974 Glossary of terms relating to port and harbour engineering

IS 9527 : Part 1 : 1981 Code of practice for design and construction of port and harbour structures: Part 1 Concrete monoliths

IS 9527 : Part 3 : 1983 Code of practice for design and construction of port and harbour structures: Part 3 Sheet pile walls

IS 9527 : Part 4 : 1980 Code of practice for design and construction of port and harbour structures: Part 4 Cellular sheet pile structures

IS 9527 : Part 6 : 1989 Code of practice for design and construction port and harbour structures Part 6 Block work

IS 10020 : Part 4 : 1981 Recommendations for design and construction of port and harbour components: Part 4 Slipways

