

## List of IS Related To Water Supply & Sanitary Engineering.

Sr. No.	IS No.	Title
<b>1)</b>	<b><u>General</u></b>	
1.	SP 7 (Part 9 Section 1): 1983	National Building code of India 1983 Part 9 plumbing services: Section 1: Water Supply
2.	SP 35 : 1987	Handbook on water supply and drainage with special emphasis on plumbing
3.	IS 1172 : 1983	Code of basic requirements for water supply drainage and sanitation (third revision)
4.	IS 2065 : 1983	Code of practice for water supply in buildings (second revision)
5.	IS 269 : 1989	33 grade ordinary Portland cement (fourth revision)
6.	IS 8112 : 1989	43 grade ordinary Portland cement
7.	IS 12269 : 1987	53 grade ordinary Portland cement
8.	IS 1489 : 1991	Portland pozzolana cement
	Part 1 : 1991	Fly ash based
	Part 2 : 1991	Calcined clay based
9.	IS 1786 : 1985	High strength deformed steel bars and wires for concrete reinforcement.
10.	IS 875 : 1987	Code of practice for design loads for buildings and structures
	Part 1 : 1987	Dead loads
	Part 2 : 1987	Imposed loads
	Part 3 : 1987	Wind loads
	Part 4 : 1987	Snow loads
	Part 5 : 1987	Special loads and load combinations
11.	IS 13920 : 1993	Ductile detailing of reinforced concrete structures subjected to seismic forces.

Sr. No.	IS No.	Title
12.	IS 1893 : 2002	Criteria for earthquake resistant design of structure.
13.	IS 456 : 2000	Code of practice for plain and reinforced concrete (third revision)
14.	IS 457 : 1957	Code of practice for general construction of plain and reinforced concrete for dams and other massive structures.
15.	IS 1343 : 1980	Code of practice for prestressed concrete (first revision)
16.	IS 3103 : 1975	Code of practice for industrial ventilation.
17.	IS 3370 : 1965	Code of practice for concrete structure for the storage of liquids.
	Part 1 : 1965	General requirements
	Part 2 : 1965	Reinforced concrete structures
	Part 3 : 1967	Prestressed concrete structures
18.	Part 4 : 1967	Design tables
	IS 6518 : 1972	Code of practice for control of sediment in reservoirs
	IS 5330 : 1984	Criteria for design of anchor block for penstocks with expansions joints (first revision)
	IS 6748 : 1973	Recommendations for watershed management relating to soil conservation.
20.	Part 1 : 1973	Agronomic aspects
	IS 7357 : 1974	Code of practice for structural design of tanks.
21.	IS 3913 : 1966	Suspended sediment load samplers.
22.	IS 3917 : 1966	Scope type bed material samplers.
23.	IS 4890 : 1968	Methods for measurement of suspended sediment in open channels.
24.	IS 4926 : 1979	Ready – mixed concrete (first revision)

Sr. No.	IS No.	Title
26.	IS 6295 : 1986	Code of practice for water supply and drainage high altitudes and / or sub-zero temperate regions (first revision).
27.	IS 4880  Part 1 : 1975  Part 2 : 1976  Part 3 : 1976  Part 4 : 1971  Part 5 : 1972  Part 6 : 1971	Code of practice for design of tunnels conveying water.  General Design.  Geometric design (first revision)  Hydraulic design (first revision)  Structural design of concrete lining in rock.  Structural design of concrete lining in soft strata and soils.  Tunnel support
28.	IS 5477  Part 1 : 1969  Part 2 : 1969  Part 3 : 1969  Part 4 : 1971	Methods for fixing the capacities of reservoirs.  General Requirements  Dead storage  Live storage  Flood storage
29.	IS 9668 : 1980	Code of practice for provision and maintenance of water supply for fire fighting.
30.	IS 8062  Part 1 : 1976 Part 2 : 1976	Code of practice for cathodic protection for steel structures  General principles Underground pipelines
31.	IS 10221 : 1982	Code of practice for coating and wrapping of underground steel pipelines.
32.	IS 12183 : 1987	Code of practice for plumbing in multistoried buildings Part 1 Water Supply.
2)	<b><u>Pipe And Pipe Laying</u></b>	

Sr. No.	IS No.	Title
<b>Cast Iron</b>		
1.	IS 1536 : 1976	Centrifugally cast (spun) iron pressure pipes for water, gas and sewage (second revision)
2.	IS 1537 : 1976	Vertically cast iron pressure pipes for water, gas and sewage (first revision)
3.	IS 1538 (Parts 1 to 24)	Cast Iron fittings for pressure pipes for water, gas and sewage (second revision)
	Part 1 : 1976	General requirements
	Part 2 : 1976	Specific requirements for sockets and spigots of pipes
	Part 3 : 1976	Specific requirements for sockets and fittings
	Part 4 : 1976	Specific requirements for flanges of pipes and fittings
	Part 5 : 1976	Specific requirements for raised flanges
	Part 6 : 1976	Specific requirements for standard flange drilling of flanged pipes and fittings
	Part 7 : 1976	Specific requirements for flanged sockets
	Part 8 : 1976	Specific requirements for flanged spigots
	Part 9 : 1976	Specific requirements for double socket bends
	Part 10 : 1976	Specific requirements for double socket bends
	Part 11 : 1976	Specific requirements for TEEs and sockets
	Part 12 : 1976	Specific requirements for double sockets tee with flanged branch
	Part 13 : 1976	Specific requirements for crosses, all sockets
	Part 14 : 1976	Specific requirements for double socket tapers (third revision)
	Part 15 : 1976	Specific requirements for caps

Sr. No.	IS No.	Title
	Part 16 : 1976	Specific requirements for plugs
	Part 17 : 1976	Specific requirements for bell mouth pipes
	Part 18 : 1976	Specific requirements for double flanged bends
	Part 19 : 1976	Specific requirements for all flanged tees
	Part 20 : 1976	Specific requirements for all flanged crosses
	Part 21 : 1976	Specific requirements for double flanged taper
	Part 22 : 1976	Specific requirements for split puddle or body flanges
	Part 23 : 1976	Specific requirements for blank flanges
	Part 24 : 1984	Specific requirements for all flanged tees (second revision)
4.	IS 1879 : 1975 Part 1 to 10	Specific requirements for all flanged tees (second revision)
5.	IS 3114 : 1985	Code of practice for laying of cast iron pipes (third revision)
6.	IS 782 : 1978	Caulking lead (third revision)
7.	IS 6163 : 1978	Centrifugally cast (spun) iron pressure pipes for water, gas and sewage (first revision)
8.	IS 7181 : 1986	Horizontally cast iron double flanged pipes for water, gas and sewage (first revision)
9.	IS 8329 : 1977	Centrifugally cast (spun) ductile iron pressure pipes for water, gas and sewage
10.	IS 9523 : 1980	Ductile iron fittings for pressure pipes for water, gas and sewage
11.	IS 11606 : 1986	Methods of sampling cast iron pipes and fittings
12.	IS 11906 : 1986	Recommendations for cement mortar lining

Sr. No.	IS No.	Title
13.	IS 12288 : 1987	cast iron, mild steel and ductile iron pipes and fittings for transportation of water.  Code of practice for laying of ductile iron pipes
	<b>Concrete Pipes</b>	
14.	IS 458 : 1971	Concrete pipes (with and without reinforcements) (second revision)
15.	IS 784 : 1978	Pre-stressed concrete pipes (including fittings) (first revision)
16.	IS 1916 : 1963	Steel cylinder reinforced concrete pipes
17.	IS 3597 : 1985	Methods of test for concrete pipes (first revision)
18.	IS 783 : 1985	Code of practice for laying of concrete pipes (first revision)
19.	IS 4350 : 1967	Concrete porous pipes for under drainage
	<b>Asbestos Cement Pipes</b>	
20.	IS 1592 : 1980	Asbestos cement pressure pipes (second revision)
21.	IS 6530 : 1972	Code of practice for laying of asbestos cement pressure pipes
22.	IS 5531 : 1977	Cast iron specials for asbestos cement pressure pipes for water, gas and sewage (first revision)
23.	IS 9627 : 1980	Asbestos cement pressure pipes (light duty)
	<b>Mild Steel Tubes and Pipes</b>	
24.	IS 1239	Mild steel tubes, tubular and other wrought steel fittings.
	Part 1 : 1979	Mild Steel tubes (fourth revision)
	Part 2 : 1982	Mild Steel tubular and other wrought steel pipe fittings (third revision)
25.	IS 1978 : 1982	Line Pipe

Sr. No.	IS No.	Title
26.	IS 3589 : 1981	Electrically welded steel pipes for water, gas and sewage (150 to 2000 mm nominal size) (first revision)
27.	IS 4270 : 1983	Steel tubes used for water wells (first revision)
28.	IS 4516 : 1968	Elliptical mild steel tubes
29.	IS 5504 : 1969	Spiral welded pipes
30.	IS 5822 : 1986	Code of practice for laying of welded steel pipes for water supply (first revision)
31.	IS 4711 : 1974	Method for sampling of steel pipes, tubes and fittings (first revision)
32.	IS 4736 : 1986	Hot-dip zinc coatings on mild steel tubes (first revision)
33.	IS 6286 : 1971	Seamless and welded steel pipes for sub zero temperature services
34.	IS 6631 : 1972	Steel pipes for hydraulic purpose
35.	IS 11722 : 1968	Thin welded flexible quick coupling pipes
	<b>Plastic Pipes</b>	
36.	IS 3076 : 1985	Low density polyethylene pipes for potable water supplies (second revision)
37.	IS 4984 : 1987	High density polyethylene pipes for potable water supplies, sewage and industrial effluents (third revision)
38.	IS 4985 : 1988	Unplasticized PVC pipes for potable water supplies (second revision)
39.	IS 12818 : 1989	UPVC ribbed and casing pipes for potable water supply
40.	IS 7634	Code of practice for plastic pipe work for potable water supplies.
	Part 1 : 1975	Choice of materials and general recommendation

Sr. No.	IS No.	Title
41.	Part 2 : 1975	Laying and Jointing polyethylene (PE) pipes.
	Part 3 : 1975	Laying and Jointing of unplasticized PVC pipes.
	IS 7834	Injection molded PVC fittings with solvent cement joints for water supplies.
	Part 1 : 1975	General requirements
	Part 2 : 1975	Specific requirements of 45 degree elbows
	Part 3 : 1975	Specific requirements for 900 elbows
	Part 4 : 1975	Specific requirements for 900 tees
	Part 5 : 1975	Specific requirements for 450 tees
	Part 6 : 1975	Specific requirements for sockets
	Part 7 : 1975	Specific requirements for unions
Part 8 : 1975	Specific requirements for caps	
42.	IS 8008	Injection moulded HDPE fittings for potable water supplies
	Part 1 : 1976	General requirements
	Part 2 : 1976	Specific requirements for 900 bends
	Part 3 : 1976	Specific requirements for 900 tees
	Part 4 : 1976	Specific requirements for reducers
	Part 5 : 1976	Specific requirements for ferrule
	Part 6 : 1976	Specific requirements for pipe ends
	Part 7 : 1976	Specific requirements for sandwich flange
43.	IS 8360	Fabricated high density polyethylene (HDPE) fittings for potable water supplies
	Part 1 : 1977	General requirements
	Part 2 : 1977	Specific requirements for 900 tees



Sr. No.	IS No.	Title
44.	Part 3 : 1977 IS 10124 Part 1 : 1988 Part 2 : 1988 Part 3 : 1988 Part 4 : 1988 Part 5 : 1988 Part 6 : 1988 Part 7 : 1988 Part 8 : 1988 Part 9 : 1988 Part 10 : 1988 Part 11 : 1988 Part 12 : 1988 Part 13 : 1988	Specific requirements for 900 bends Fabricated PVC fittings for potable water supplies General requirements Specific requirements for sockets (first revision) Specific requirements for straight reducers (first revision) Specific requirements for caps (first revision) Specific requirements for equal tees (first revision) Specific requirements for flanged in to pieces with metallic flanges (first revision) Specific requirements for threaded adaptors (first revision) Specific requirements for 90 degree bends (first revision) Specific requirements for 60 degree bends (first revision) Specific requirements for 45 degree bends (first revision) Specific requirements for 30 degree bends (first revision) Specific requirements for $22\frac{1}{2}$ degree bends (first revision) Specific requirements for $11\frac{1}{4}$ degree bends (first revision)
45.	IS 12231 : 1988	UPVC pipes for use in suction and delivery of agriculture pump.
46.	IS 12235	Methods of test for unplasticized PVC

Sr. No.	IS No.	Title
47.	Part 1 : 1986 Part 2 : 1986 Part 3 : 1986 Part 4 : 1986 Part 5 : 1986 Part 6 : 1986 Part 7 : 1986 Part 8 : 1986 Part 9 : 1986 Part 10 : 1986 Part 11 : 1986 IS 12709 : 1989	pipes for potable water supplies. Methods for measurement of outside diameter. Measurements of wall thickness Test for opacity Determining the detrimental effect on the composition of water Reservoir test Stress relief test Test for resistance of sulphuric acid Internal hydrostatic pressure test Impact strength test Method for determination of organizing as aqueous solution. Extractability of cadmium and mercury occurring as impurities Specification for glass fiber reinforced plastic (GRP) pipes for water supply and sewerage.
48.	<b>Miscellaneous Pipes</b> IS 1545 : 1982	Soild drawn copper alloy tubes for condensers and heat exchanger (second revision)
49.	IS 404 : 1993 Part 1 : 1993 Part 2 : 1979	Lead Pipes For other than chemical purpose (second revision) For chemical purpose (second revision)
50.	IS 11906 : 1986	Recommendations for cement – mortar lining for cast iron, mild steel and ductile iron pipes and fittings for transportation of water.
<b>3)</b>	<b><u>Water Fittings</u></b>	

Sr. No.	IS No.	Title
<b>Taps</b>		
1.	IS 781 : 1984	Cast copper alloy screw drawn bid taps and stop valves for water services (third revision)
2.	IS 1700 : 1973	Drinking foundations (first revision)
3.	IS 1711 : 1984	Self – closing taps for water supply purpose (second revision)
4.	IS 1795 : 1982	Pillar taps for use with fittings for water services (second revision)
5.	IS 4346 : 1982	Washers for use with fittings for water services (first revision)
6.	IS 8934 : 1978	Cast copper alloy fancy pillar taps for water services.
7.	IS 9763 : 1981	Plastic bid taps and stop valves (rising spindle) for cold water services.
<b>Water Meters</b>		
8.	IS 779 : 1978	Water meters (domestic type) (fifth revision)
9.	IS 2104 : 1981	Water meter boxes (domestic type) (first revision)
10.	IS 2373 : 1981	Water meter (bulk type) (third revision)
11.	IS 2401 : 1973	Code of practice for selection, installation and maintenance of domestic water meters (first revision)
12.	IS 6784 : 1984	Method for performance testing of water meters (domestic type) (first revision)
<b>Valves</b>		
13.	IS 780 : 1984	Sluice valves for water works purpose (50 to 300 mm size) (sixth revision)
14.	IS 2906 : 1984	Sluice valves for water works purpose (350 to 1200 mm size) (third revision)
15.	IS 2685 : 1971	Code of practice for selection, installation and maintenance of sluice valves (first revision)

Sr. No.	IS No.	Title
16.	IS 3042 : 1965	Single faced sluice gates (200 to 1200 mm size)
17.	IS 3950 : 1979	Surface boxes for sluice valves (first revision)
18.	IS 778 : 1984	Copper alloy gate, globe and check valves for water works purpose (fourth revision)
19.	IS 1701 : 1960	Mixing valves for ablutionary and domestic purpose
20.	IS 1703 : 1977	Ball valves (horizontal plunger type) including floats for water supply purpose (second revision)
21.	IS 4838 : 1986	Foot valves for water works purposes (second revision)
22.	IS 5312 : 1984	Single door pattern (first revision)
	Part 1 : 1984	Single door pattern (first revision)
	Part 2 : 1986	Multi door pattern
23.	IS 9338 : 1984	Cast iron screw down stop valves and stop and check valves for water works purpose (first revision)
24.	IS 9739 : 1981	Pressure reducing valves for domestic water supply systems.
25.	IS 12234 : 1988	Equilibrium plastic float valve for cold water services.
	<b>Miscellaneous Fittings</b>	
26.	IS 2692 : 1978	Ferrules for water services (first revision)
27.	IS 3004 : 1979	Plug cocks for water supply purpose (first revision)
28.	IS 9762 : 1981	Polyethylene floats for ball valves
29.	IS 10446 : 1983	Glossary of terms relating to water supply and sanitation
4)	<b><u>Tubewells Pumps and Prime Movers Glossary</u></b>	

Sr. No.	IS No.	Title
1.	IS 9439 : 1980	Glossary of terms used in water well drilling technology
2.	IS 2800 : 1979	Code of practice for construction and testing of tubewells
	Part 1 : 1991	Construction (first revision)
	Part : 1979	Testing (first revision)
3.	IS 11189 : 1985	Methods for tube-well development
4.	IS 11632 : 1986	Code of practice for rehabilitation of tubewell
	<b>Tubewell Components</b>	
5.	IS 4097 : 1967	Gravel for use as pack in tubewells
6.	IS 4270 ; 1983	Steel tubes used for water wells (first revision)
7.	IS 8110 : 1983	Well screens and slotted pipes (first revision)
	<b>Drilling Equipments, Accessories and Methods</b>	
8.	IS 7156 : 1974	General requirements for reverse circulation drilling rigs
9.	IS 7206 : 1974	General requirements for straight rotary drilling rigs
10.	IS 7209 : 1974	General requirements for blast hold drilling rigs
11.	IS 8986 : 1978	Dimensions for drill steel in bar form for percussive drilling
12.	IS 9026 : 1978	Rope threaded percussive long hole drilling equipment
13.	IS 11180 : 1985	Keeleys for direct rotary drilling
14.	IS 11312 : 1986	External upset drill pipe assemblies for use in water well drilling
	Part 1 : 1986	Screwed on joints drill pipe size
15.	IS 11672 : 1986	Tungsten carbide buttons and inserts of use in down the hole (DTH) bits

Sr. No.	IS No.	Title
16.	IS 11830 : 1986	Code of practice for selection and design of diamond core drills
17.	IS 11830 : 1986	General requirements for down the hole hammer rigs for water wells
18.	IS 12097 : 1987	Classification and selection of drilling rigs for water well drilling
19.	IS 12194 : 1987	Dimensions for rock roller bits and blade drag bits for rock drilling equipment
20. 21. 22.	<b>Pumps and Related Standards</b>	Shallow well hand pumps
		Deep well hand pumps (second revision)
		Code of practice for installation and maintenance of deep well band pumps
		Part 1 Installation Part 2 Maintenance
23. 24. 25. 26. 27. 28. 29. 30.	<b>Other Pumps</b>	Horizontal centrifugal pumps for clear, cold, fresh water (second revision)
		Vertical turbine pumps for clear, cold, fresh water (first revision)
		Horizontal centrifugal pumps for clear, cold, fresh water for centrifugal purposes (first revision)
		Submersible pump sets for clear, cold, fresh water
		Horizontal centrifugal self priming pumps
		Regenerative self priming pumps for clear, cold, fresh water
		Monoset pumps for clear, cold, fresh water for agricultural purposes
		Code for acceptance test for centrifugal mixed flow and axial pumps – Class C

Sr. No.	IS No.	Title
31.	IS 9542 : 1980	Horizontal centrifugal monoset pumps for cold, fresh water
32.	IS 9694  Part 1 : 1980  Part 2 : 1980  Part 3 : 1980  Part 4 : 1980	Code of practice for selection, installation, operation and maintenance for horizontal centrifugal pumps for agricultural applications.  Selection  Installation  Operation  Maintenance
33.	IS 10572 : 1983	Methods of sampling pumps
34.	IS 10804 : 1986	Recommendation pumping systems for agricultural purposes (first revision)
35.	IS 10805 : 1986	Foot valves, reflux valves or non return valves and bore valves to be used in suction lines of agricultural pumping systems (first revision)
36.	IS 10981 : 1983	Code for acceptance test for centrifugal mixed flow and axial pumps – Class B
37.	IS 11346 : 1985	Testing set up for agricultural pumps
38.	IS 12225 : 1987	Technical requirements for jet, centrifugal pump combination
39.	IS 5120 : 1977	Technical requirements for roto dynamic special purpose pumps
	<b>Prime Movers</b>	
40.	IS 325 : 1978	Three phase induction motors
41.	IS 900 : 1965	Code of practice for installation and maintenance of induction motors
42.	IS 996 : 1979	Single phase small A.C. and universal electric motors
43.	IS 4029 : 1967	Guide for testing three phase induction motors

Sr. No.	IS No.	Title
44.	IS 7538 : 1975	Three phase squirrel cage induction motors for centrifugal pumps for agricultural application
45.	IS 8789 : 1978	Valves of performance characteristics for three phase induction motors
46.	IS 9283 : 1979	Motors for submersible pump sets
47.	IS 10001 : 1981	Performance requirement for constant speed compression ignition (diesel) engines for general purposes (up to 20 Kw)
48.	IS 11170 : 1985	Performance requirements for constant speed compression ignition (diesel) engines for agricultural purposes (up to 20 Kw)
49.	IS 11501 : 1986	Engine monoset pumps for clear, cold, fresh water for agricultural purposes
50.	IS 10808 : 1984	Code of practice for installation, operation and maintenance of hydraulic rams
51.	IS 10809 : 1984	Hydraulic rams
52.	Test code for hydraulic rams	Test code for hydraulic rams
<b>5)</b>	<b><u>Water Quality</u></b>	
1.	IS 258 : 1967	Potash ash (first revision)
2.	IS 259 : 1969	Aluminium alum (first revision)
3.	IS 260 : 1969	Aluminium sulphate
4.	IS 299 : 1980	Aluminium ferric (third revision)
5.	IS 646 : 1986	Liquid chlorine (second revision)
6.	IS 1065 : 1971	Bleaching powder, stable
7.	IS 1622 : 1981	Methods of sampling and microbiological examination of water (first revision)
8.	IS 3025 : 1964	Methods of sampling and test (physical and chemical) for water and waste water
	Part 1 : 1986	Sampling (first revision)
	Part 2 : 1987	Precision and accuracy



Sr. No.	IS No.	Title
	Part 3 : 1983	Colour (first revision)
	Part 4 : 1983	Odour (first revision)
	Part 5 : 1983	Odour threshold (first revision)
	Part 6 : 1984	Test threshold (first revision)
	Part 7 : 1984	Test rating (first revision)
	Part 8 : 1984	Temperature (first revision)
	Part 9 : 1984	Turbidity (first revision)
	Part 10 : 1983	pH value (first revision)
	Part 11 : 1983	Density (first revision)
	Part 12 : 1983	Saturation index (with respect to calcium carbonate) (first revision)
	Part 13 : 1984	Specific conductance (wheat – stone bridge conductance cell) (first revision)
	Part 14 : 1984	Total residue (total dissolved solids) (first revision)
	Part 15 : 1984	Filterable residue (total dissolved solids) (first revision)
	Part 16 : 1984	Non filterable residue (total dissolved solids) (first revision)
	Part 17 : 1984	Volatile and fixed residue (total filterable and non filterable) (first revision)
	Part 18 : 1984	Settable matter (first revision)
	Part 19 : 1984	Dispersion characteristics (flow patterns) (first revision)
	Part 20 : 1983	Total hardness (first revision)
	Part 21 : 1986	Acidity (first revision)
	Part 22 : 1986	Alkalinity (first revision)
	Part 23 : 1986	Sulphate

Sr. No.	IS No.	Title
	Part 24 : 1986	Chlorine demand (first revision)
	Part 25 : 1986	Chlorine, residual (first revision)
	Part 26 : 1986	Cyanide (first revision)
	Part 27 : 1986	Sulphate (first revision)
	Part 28 : 1986	Sulphate (first revision)
	Part 29 : 1988	Bromide
	Part 30 : 1988	Phosphorous
	Part 31 : 1988	Chloride
	Part 32 : 1988	Iodide
	Part 33 : 1988	Nitrogen
	Part 34 : 1988	Silica
	Part 35 : 1988	Ozone residual
	Part 36 : 1988	Arsenic
	Part 37 : 1989	Dissolved Oxygen
	Part 38 : 1989	Oil and Greece
	Part 39 : 1991	Calcium
	Part 40 : 1992	Cadmium
	Part 41 : 1992	Copper
	Part 42 : 1992	Phenols
	Part 43 : 1993	B.O.D.
	Part 44 : 1993	Sodium and Pottasium
	Part 45 : 1994	Magnesium
	Part 46 : 1994	Lead
	Part 47 : 1994	Mercury
9.	IS 9825 : 1981	Chlorine tablets

Sr. No.	IS No.	Title
10.	IS 10500 : 1991	Drinking water standards
<b>6)</b>	<b><u>Measurement Of Fluid Flow</u></b>	
1.	IS 1191 : 1971	Glossary of terms and symbols used in connection with the measurement of liquid flow with a free surface (first revision)
2.	IS 1192 : 1981	Velocity area methods for measurement of flow of water in open channels
3.	IS 1194 : 1960	Forms for recording measurement of flow of water in open channels
4.	IS 2912 : 1964	Recommendations for liquid flow measurement in open channels by slope area method (approximate method) (Amendment No. 1)
5.	IS 2913 : 1964	Recommendation for determination of flow in tidal channels
6.	IS 2914 : 1964	Recommendation for estimation of discharge by establishing stage – discharge relation in open channels. (Amendment No.1)
7.	IS 2915 : 1964	Instructions for collection of data for the determination, of the flow by velocity area methods
8.	IS 2951 : 1965  Part 1 : 1965  Part 2 : 1965	Recommendation for estimation for flow of liquids in closed conduits  Head loss in straight pipes due to friction resistance  Head loss in valves and fittings
9.	IS 2952 : 1964  Part 1 : 1964  Part 2 : 1975	Recommendation for methods of measurement of liquid flow by means of orifice plates and nozzles  Incompressible fluids  Compressible fluids
10.	IS 3910 : 1966	Specification for current meters (cup type) for water flow measurement (Amendment

Sr. No.	IS No.	Title
		No.1)
11.	IS 3911 : 1966	Specification for surface floats
12.	IS 3912 : 1966	Specification for sounding rods
13.	IS 3918 : 1966	Code of practice for use of current meter (cup type) for water flow measurement
14.	IS 4073 : 1967	Specification for fish weights
15.	IS 4080 : 1967	Specification for vertical staff gauges
16.	IS 4477	Methods of measurement of fluid flow by means of venturi meters:
	Part 1 : 1967	Liquids
	Part 2 : 1975	Compressible fluids
17.	IS 4858 : 1968	Specification for velocity rods
18.	IS 6059 : 1971	Recommendation for liquid flow measurement in open channels by wires and flumes – Weirs of finite crest width for free discharge
19.	IS 6062 : 1971	Methods of measurement of flow of water in open channels using standing wave flume fall
20.	IS 6063 : 1971	Methods of measurement of flow of water in open channel using standing wave flume
21.	IS 6064 : 1971	Specification for sounding and suspension equipment
22.	IS 6330 : 1971	Recommendation for liquid flow measurement in open channels by weirs and flumes – end depth method for estimation of flow in rectangular channels with a free overall (approximately method)
23.	IS 6339 : 1971	Methods of analysis of concentration, particle size distribution and specific gravity of sediment in streams and cannels
24.	IS 9108 : 1979	Liquid flow measurement in open channels using this plate weirs

Sr. No.	IS No.	Title
25.	IS 9115 : 1979	Method for estimation of incompressible fluid flow in closed conduits by bend meters
26.	IS 9116 : 1979	Specification for water stage recorder (float type)
27.	IS 9117 : 1979	Recommendation for liquid flow measurement in open channels by weirs and flumes – end depth method for estimation of flow in non Rectangular channels with a free over all (approximate method)
28.	IS 9118 : 1979	Method for measurement of pressure by means of manometer
29.	IS 9119 : 1979	Method for flow estimation by jet characteristics (approximate method)
30.	IS 9163 : 1979 Part 1	Dilution Methods for measurement of steady flow constant rate injection method
31.	IS 9922 : 1981	Guide for selection of method for measuring flow in open channels
7)	<b><u>Treatment</u></b>	
1.	IS 1680 : 1982	Treatment of water for low and medium pressure in land boilers
2.	IS 1813 : 1961	Treatment of water for marine boilers
3.	IS 2859 : 1977	Treatment of water for locomotive boilers
4.	IS 3328 : 1965	Quality tolerances for swimming pool
5.	IS 4343 : 1983	Treatment of water for high pressure boiler
6.	IS 7090 : 1985	Guidelines for rapid mixing devices
7.	IS 7208 : 1992	Guidelines for flocculator devices
8.	IS 8419 : 1984	Requirement for rapid gravity filtration equipment
	Part 1 : 1984	Filtration media – sand and gravel
	Part 2 : 1984	Under drainage systems
9.	IS 10037	Requirement for sludge dewatering

Sr. No.	IS No.	Title
		equipment
	Part 1 : 1981	Sludge drying beds including sand, gravel, under drains
	Part 2 : 1983	Vacuum filtration equipment for dewatering sludge
	Part 3 : 1983	Centrifugal equipment (solid bowl type)
10.	IS 10261 : 1982	Requirements of settling tank (clarifier equipment) for waste water treatment plant
11.	IS 10313 : 1982	Requirements of settling tank (clarifier equipment) for water treatment plant
12.	IS 10553	Requirements for chlorination equipment
	Part 1 : 1983	General guidelines for chlorination plants including handling, storage and safety of chlorine cylinders and drums
	Part 2 : 1983	Vacuum feed type chlorinators
	Part 4 : 1983	Gravity feed type gaseous chlorinators
	Part 5 : 1987	Bleaching powder solution feeder displacement type chlorinator
13.	IS 12742 : 1989	Water for drinking purposes, guide for defluoridation (chemical treatment method)
14.	IS 800 : 1984	Code of practice for general construction in steel
15.	SP 6 (1) : 1964	ISI Hand Book for structural engineers Structural steel sech
16.	SP 6 (2) : 1962	Steel Beams & Plate girders
17.	SP 6 (3) : 1962	Steel Columns & Struts
18.	SP 6 (6) : 1972	Application of plastic theory in design of steel structures
19.	SP (7) : 1972	Simple welded girders
20.	IS 1904 : 1985	Design and Construction of foundations general requirements (3 <sup>rd</sup> revision)

Sr. No.	IS No.	Title
21.	IS 2809 : 1972	Glossary of terms and symbols relating to soil engineering
22.	IS 3764 : 1966	Safety code for excavation work
23.	IS 1905 : 1980	Structural safety of Building Masonry walls (2 <sup>nd</sup> revision)
24.	IS 1597 : Part – 1	Rubble stone masonry
25.	IS 1967 : Part – 2	Ashlars masonry
26.	IS 2212 : 1962	Brick Work
27.	IS 2541 : 1977	Preparation and use of lime concrete
28.	IS 5817 : 1970	Preparation and use of lime pozzolana mixture concrete in buildings and roads
29.	IS 8041	Rapid hardening Portland cement
30.	IS 8043	Hydro pholic cement
31.	IS 12600	Low heat Portland cement
32.	IS 12330	Sulphate resisting Portland cement
33.	IS 6909	Super sulphate cement
34.	IS 6542	High alumina cement
35.	IS 455 : 1989	Portland slag cement
36.	IS 3812	Fly ash Grade – 1
37.	IS 12089	Ground generated Blast slag cement GGBS
<b>Material Testing</b>		
1.	IS 13311 : Part – 1	Ultra sonic pulse velocity test (non destructive testing of concrete)
2.	IS 13311 : Part – 2	Rebound Hammer Test
3.	IS 10262 : 2004	Guide lines for concrete mix proportioning (draft)
4.	IS 2386 : 1963	Methods of tests for aggregate for concrete
5.	IS 383 : 1970	Specifications for course and fine

Sr. No.	IS No.	Title
		aggregate from Natural Sources for Concrete
6.	IS 9103 : 1999	Specifications for admixtures for concrete
7.	IS 1199 : 1959	Methods of sampling and analysis of concrete
8.	IS 516 : 1959	Methods of tests for strength of concrete
9.	IS 10262	Mix proportioning of plain and rice husk ash concrete (draft)
10.	SP – 23 : 1982	Hand Book on Concrete Mix Design
11.	IS 4031 : Part – 5	Test Blocks for initial setting time test OPC
	<b>Steel – Reinforcement Bars</b>	
1.	IS 432 : Part – 1	Mild steel and medium tensile steel
2.	IS 1786	High strength deformed steel bars (HYSD)
3.	IS 1566	Hand drawn steel wire fabric
4.	IS 2062	Structural steel centrifugal to Grade A
5.	IS 456 : 2000	Code of practice for plain and reinforced concrete
6.	IS 1893 : 2002 – Part – 1	Criteria for Earthquake Resistant Design of Structure
	Part – 2 (Draft)	General Provisions & Buildings
	Part – 3 (Draft)	Liquid Retaining Tanks, Elevated & Ground Reservoirs
7.	IS 875 Part – 3 (Draft)	Code of practice for design loads (Other than earthquake) for Buildings & Structures Wind Loads
8.	IS 875 : 1987 Part – 5	Code of practice for design loads (Other than earthquake) for Buildings & Structures Wind Loads
9.	IS 13920 : 1993	Code of practice for Ductile detailing of reinforced concrete structures subjected to seismic forces.



Sr. No.	IS No.	Title
10.	IS 3370 : 1965 Part – 1 & 2 Part – 3 & 4 : 1967	Code of practice for concrete structure for the storage of liquids.
11.	IS 11682 : 1985	Criteria for RCC Staging for Overhead Water Tanks
12.	IS 11089 : 1984	Code of practice for Design & Construction of Ring Foundation
13.	IS 1080 : 1985	Code of practice for Design & Construction of Shallow Foundation in Soil
14.	IS 2911 : 1988	Code of practice for Design & Construction of pile foundation
15.	IS 1786 : 1985	Specification for High Strength Deformed Bars & Wires for Concrete Reinforcement
16.	IS 1139 : 1966	Specification for Hot rolled Mild Steel Medium Steels & High Strength Deformed bars for Concrete Reinforcement