

**G) LIST OF I.S.CODES ON CANAL ALIGNMENT & DESIGN OF CM & CD WORKS AND OTHER IMPORTANT REFERENCE BOOKS**

<b>S.NO</b>	<b>DESCRIPTION</b>	<b>CODE NO / REFERENCE</b>
1	Guide for Planning and layout of Canal System for Irrigation	IS:5968-1987
2	Criteria for Design of Cross Section for Unlined Canals in alluvial soils	IS:7112-1973
3	Code of practice for Design of Cross Section of Lined Canals	IS:4745-1968
4	Code of practice for laying Cement Concrete/ Stone Slab lining on canals	IS:3873-1993
5	Guidelines for Lining of canals in Expansive soils	IS:9451-1994
6	Criteria for design of Hydraulic jump type stilling basins with horizontal and sloping apron.	IS:4997-1968
7	Criteria for hydraulic design of Cross Regulators for canals	IS:7114-1973
8	Guide for location, selection and hydraulic design of Canal Escapes	IS:6936-1992
9	Code of practice for design of cross drainage works : part - I, (General features)	IS:7784(part-I)-1993
10	Code of practice for design of cross drainage works :part - 2, (section -1,Aqueducts)	IS:7784 (part-2/section-1)-1995
11	Code of practice for design of cross drainage works: part -2, (section -2 super passages)	IS:7784 (part-2 / section-2)-2000
12	Code of practice for design of cross drainage works:part - 2, (section-3 canal Syphons)	IS:7784 (part2 / Section-3)-1996
13	Code of practice for design of cross drainage works: part - 2, (section-4 Level crossings)	IS:7784 (part-2/-section-4)-1999
14	Code of practice for design of cross drainage works:part - 2, (section-5 Syphon Aqueducts)	IS:7784 (part-2/-section-5)-2000
15	Code of practice for laying of concrete pipes	IS:783 - 1985
16	Specification for precast concrete pipes (with & without Reinforcement).	IS:458 - 1988

S.NO	DESCRIPTION	CODE NO / REFERENCE
17	Standard specifications and code of practice for road bridges, section - I, General features of Design	IRC : 5 - 1998
18	Standard specifications and code of practice for road bridges, section - II, Loads and Stresses.	IRC: 6 - 2000
19	Standard specifications and code of practice for road bridges, section -III, Cement Concrete (Plain and Reinforced).	IRC: 21 - 2000
20	Standard specifications and code of practice for road bridges section - IV, Brick, Stone and Block Masonry.	IRC : 40 - 1995
21	Standard specifications and code of practice for road bridges, section - VII, Foundations and Sub structure.	IRC : 78 - 2000
22	Standard specifications and code of practice for road bridges section - IX, Bearings, Part II : Elastomeric Bearings.	IRC : 83(Part II) - 1987
23	Pocket Book for Bridge Engineers 2000	MOST 2000
24	MOST Standard Plans	
	a) Standard plans for solid slab type high way bridges	MOST Standard plans of 1977, Volume - II
	b) Standard plans for high way bridges, Concrete T- Beam Bridges	MOST Standard plans of 1983, Volume - III
	c) Standard plans for 3.0 m to 10m span RCC Solid Slab Super Structure with & without foot paths.	MOST Standard plans of 1991
	d) Standard plans for High way Bridges RCC T-Beam & Slab Super Structure - Span from 10m to 24m with 12m width	MOST Standard plans of 1992
	e) Standard drawings for Road Bridges solid slab Super Structure (15° & 30° ) skew span 4m to 10m (with and without foot paths)	MOST Standard plans of 1992
	f) Standard drawings for Road Bridges solid slab Super structure (20°,25° &35° )skew span 4m to 10m (with and without foot paths)	MOST Standard plans of 1992

S.NO	DESCRIPTION	CODE NO / REFERENCE
25	Code of Practice for Concrete Structures for storage of liquids, Part - I (General requirement)	IS: 3370 - (part I)-1965
26	Code of Practice for Concrete Structures storage of liquids, Part - II (Reinforced Concrete Structure)	IS: 3370 - (part II)-1965
27	Code of Practice for Plain and Reinforced concrete	IS: 456 - 2000
28	Code of Practice for Design and Construction of Raft Foundations, Part I :Design.	IS:2950 (part I) - 1981
29	Code of Practice for Design and Construction of Pile Foundations, Part I :Concrete.	IS: 2911:Part I : 1979
30	Code of Practice for Design and Construction of Piles,Section I, Driven cast in situ Concrete Piles	IS: 2911:Part I : Section I: 1979
31	Code of Practice for Design and Construction of Piles,Section 2 , Bored cast in situ Concrete Piles	IS: 2911:Part I : Section 2: 1979
32	Code of Practice for Design and Construction of Piles,Part 3, Under reamed Piles	IS : 2911 : Part 3 : 1980
32(a)	Code of Practice for Design and Construction of foundations in Soils-Genreal Requirements	IS : 1904-1986 (RA 2000)
33	Design aids for Reinforced Concrete to IS:456 - 1978.	SP - 16 , 1980
34	Hand Book of Concrete Reinforcement and Detailing	SP - 34 (S&T) - 1987
35	Current Practices In Canal design in India	CBIP , Technical Report no - 3
36	Design practices for Unlined incised Canals	CBIP , Technical Report no - 7
37	Manual on Irrigation and Power Channels	CBI - Publication no: 171
38	Design of weirs on permeable foundation	CBI - Publication no: 12
39	Design of Small Dams	USBR
40	Manual on Canal Falls	CW & PC Publication
41	TVA Hand Book	
42	Test Book of Irrigation Manual	W.M.Ellis

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