

BUREAU OF INDIAN STANDARDS

Program of Work

WRD 13 : Canals And Cross Drainage Works

Scope: Standardization of criteria for planning, location, design, construction, inspection, maintenance and other related aspects for canals and cross drainage works.

Liaison:

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10430:2000 Reviewed In : 2024	Criteria for design of lined canals and guidance for selection of type of lining (First Revision)	September, 2024	1	Indigenous
2	IS 10646:1991 Reviewed In : 2024 Reaffirmed but not taken up for revision	Canal linings - Cementconcrete tiles - Specification (First Revision)	September, 2024	3	Indigenous
3	IS 11570:1985 Reviewed In : 2024	Criteriafor hydraulic design of irrigation intake structures	March, 2024	1	Indigenous
4	IS 11809:1994 Reviewed In : 2024 Reaffirmed but not taken up for revision	Lining for canals by stone masonry - Code of practice (First Revision)	September, 2024	2	Indigenous
5	IS 12331:1988 Reviewed In : 2022	General requirements for canal outlets	August, 2022	1	Indigenous
6	IS 12379:1988 Reviewed In : 2022	Code of practice for lining of water - Courses and field channels	August, 2022	2	Indigenous
7	IS 13143:1991 Reviewed In : 2024	Jointsin concreteliningofcanals - Sealing compound - Specification	March, 2024	-	Indigenous
8	IS 16238:2017 Reviewed In : 2022	Planning of parallel canals - Guidelines	April, 2022	-	Indigenous
9	IS 16472:2016 Reviewed In : 2021	Design and construction of water courses - Guidelines	February, 2021	-	Indigenous
10	IS 3872:2002 Reviewed In : 2022	Lining of canals with burnt clay tiles - Code of practice (First Revision)	August, 2022	1	Indigenous
11	IS 3873:1993 Reviewed In : 2024	Laying .cement concrete/stone slab lining on canals - Code of practice (Second Revision)	September, 2024	1	Indigenous
12	IS 4410 (Part 5):2023	GLOSSARY OF TERMS RELATING TO RIVER VALLEY PROJECTS PART 5 CANALS (Second Revision)		-	Indigenous
13	IS 4410 (Part 15/Sec	GLOSSARY OF TERMS		-	Indigenous

	1):2023	RELATING TO RIVER VALLEY PROJECTS PART 15 CANAL STRUCTURES Section 1 General Terms			
14	IS 4410 (Part 15/Sec 2):2023	GLOSSARY OF TERMS RELATING TO RIVER VALLEY PROJECTS PART 15 CANAL STRUCTURES Section 2 Transitions		-	Indigenous
15	IS 4410 (Part 15/Sec 3):1977 Reviewed In : 2025 Reaffirmed but not taken up for revision	Glossary of terms relating to river valley projects: Part 15 canal structures: Sec 3 flume.	March, 2025	-	Indigenous
16	IS 4410 (Part 15/Sec 4):1977 Reviewed In : 2025	Glossary of terms relating to river valley projects: Part 15 canal structures: Sec 4 regulating works	March, 2025	-	Indigenous
17	IS 4410 (Part 15/Sec 5):2023	GLOSSARY OF TERMS RELATING TO RIVER VALLEY PROJECTS PART 15 CANAL STRUCTURES Section 5 Cross- Drainage Works		-	Indigenous
18	IS 4515:2002 Reviewed In : 2022	Stone pitched lining for canals - Code of practice (Second Revision)	August, 2022	-	Indigenous
19	IS 4558:1995 Reviewed In : 2021	Under - Drainage of lined canals - Code of practice (Second Revision)	February, 2021	1	Indigenous
20	IS 4701:1982 Reviewed In : 2024	Code of practice for earthwork on canals (First Revision)	September, 2024	-	Indigenous
21	IS 4839 (Part 1):1992 Reviewed In : 2022	Maintenance of canals code of practice: Part 1 unlined canals (Second Revision)	August, 2022	1	Indigenous
22	IS 4839 (Part 2):1992 Reviewed In : 2021	Maintenance of canals - Codb of practice: Part 2 lined canals (Second Revision)	February, 2021	1	Indigenous
23	IS 4839 (Part 3):1992 Reviewed In : 2022	Code of practice for maintenance of canals: Part 3 canal structures, drains, outlets, jungle, clearance, plantation and regulation f second revision)	August, 2022	1	Indigenous
24	IS 5256:1992 Reviewed In : 2022	Sealing expansion joints in concrete lining of canals - Code of practice (First Revision)	August, 2022	-	Indigenous
25	IS 5690:1982 Reviewed In : 2024 Reaffirmed but not taken up for revision	Guide for laying combination lining for existing unlined canals (First Revision)	September, 2024	1	Indigenous
26	IS 5968:1987 Reviewed In : 2022	Guide for planning and layout of canal system for krrlGatlOn (First Revision)	August, 2022	-	Indigenous
27	IS 6004:1980 Reviewed In : 2024 Reaffirmed but not taken up for revision	Criteria for hydraulic design of sediment ejector for irrigation and power channels (First Revision)	September, 2024	-	Indigenous
28	IS 6522:1972	Criteria for design of silt vanes for	September, 2024	-	Indigenous

	Reviewed In : 2024 Reaffirmed but not taken up for revision	sediment control in offtaking canals			
29	IS 6531:2021	Canal head regulators criteria for design Second Revision		-	Indigenous
30	IS 6936:1992 Reviewed In : 2022	Guide for location, selection and hydraulic design of canal escapes (First Revision)	August, 2022	-	Indigenous
31	IS 7112:2002 Reviewed In : 2022	Criteria for design of cross -: Sec for unlined canals in alluvial soil (First Revision)	August, 2022	-	Indigenous
32	IS 7113:2003 Reviewed In : 2022	Soil - Cement lining for canals - Code of practice (First Revision)	August, 2022	1	Indigenous
33	IS 7114:1973 Reviewed In : 2024 Reaffirmed but not taken up for revision	Criteria for hydraulic design of cross regulators for canals	September, 2024	-	Indigenous
34	IS 7331:1981 Reviewed In : 2022	Code of practice for inspection and maintenance of cross drainage works (First Revision)	August, 2022	-	Indigenous
35	IS 7495:1974 Reviewed In : 2024 Reaffirmed but not taken up for revision	Criteria for hydraulic design of silt selective head regulator for sediment control in offtaking canals	August, 2024	-	Indigenous
36	IS 7784 (Part 1):2013 Reviewed In : 2024	Design of cross drainage works - Code of practice: Part 1 general features (Second Revision)	September, 2024	-	Indigenous
37	IS 7784 (Part 2/Sec 1):1995 Reviewed In : 2025 Reaffirmed but not taken up for revision	Design of cross drainage works code of practice: Part 2 specific requirements: Sec 1 aqueducts (First Revision J	March, 2025	-	Indigenous
38	IS 7784 (Part 2/Sec 2):2000 Reviewed In : 2024	Code of practice for design of cross drainage works: Part 2 specific requirements: Sec 2 superpassages (First Revision)	September, 2024	1	Indigenous
39	IS 7784 (Part 2/Sec 3):1996 Reviewed In : 2021	Code of practice for design of cross drainage works: Part 2 specific requirements: Sec 3 canal siphons (First Revision)	February, 2021	-	Indigenous
40	IS 7784 (Part 2/Sec 4):1999 Reviewed In : 2024 Reaffirmed but not taken up for revision	Design of cross drainage works - Code of practice: Part 2 specific requirements: Sec 4 level crossings (First Revision)	August, 2024	-	Indigenous
41	IS 7784 (Part 2/Sec 5):2000 Reviewed In : 2024	Code of practice for design of cross drainage works part 2 specific requirements: Sec 5 siphon aqueducts (First Revision)	September, 2024	1	Indigenous
42	IS 7871:1975 Reviewed In : 2024	Criteria for hydraulic design of groyne walls (Curved Wing) for sediment distribution at offtake points in a canal	March, 2024	-	Indigenous
43	IS 7873:1975	Code of practice for limb concrete	March, 2024	1	Indigenous

	Reviewed In : 2024 Decision taken to Reaffirm and Archive	lining for canals			
44	IS 7880:1975 Reviewed In : 2024 Reaffirmed but not taken up for revision	Criteria for hydraulic design of skimming platform for sediment control in offtaking canal	September, 2024	-	Indigenous
45	IS 7986:1976 Reviewed In : 2024 Reaffirmed but not taken up for revision	Code of practice for canal outlets	September, 2024	1	Indigenous
46	IS 8835:1978 Reviewed In : 2024 Reaffirmed but not taken up for revision	Guidelines for planning and design of surface drains	September, 2024	-	Indigenous
47	IS 9097:1979 Reviewed In : 2024	Guide for laying lining of canals with hot bitumen or bituminous felts	March, 2024	-	Indigenous
48	IS 9447:2023	Assessment of Seepage Losses in Canals by Analytical method- Guidelines (first revision)		-	Indigenous
49	IS 9451:2022	Guidelines for Lining of Canals in Expansive Soils Third Revision		-	Indigenous
50	IS 9452 (Part 1):1993 Reviewed In : 2024	Measurement of seepage losses from canals - Code of practice: Part 1 Ponding method	March, 2024	-	Indigenous
51	IS 9452 (Part 2):1980 Reviewed In : 2024	Code of practice for measurement of seepage losses from canals: Part 2 inflow - O - outflow method	March, 2024	-	Indigenous
52	IS 9452 (Part 3):1988 Reviewed In : 2024	Code of practice for measurement of seepage losses from canals: Part 3 seepage meter method	March, 2024	-	Indigenous
53	IS 9698:1995 Reviewed In : 2025 Reaffirmed but not taken up for revision	Lining of canals with polyethylene film - Code of practice (First Revision)	March, 2025	1	Indigenous
54	IS 9913:2000 Reviewed In : 2024	Code of practice for construction of cross drainage works (First Revision)	September, 2024	1	Indigenous

Standards under Development

Projects Approved

Sl. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

Sl. No.	Doc No.	Title
1	WRD 13 (24526) Revision of: IS 4558:1995	UNDER-DRAINAGE OF LINED CANALS - CODE OF PRACTICE

Drafts Standards in WC Stage		
Sl. No.	Doc No.	Title
No Records Found		
Draft Standards Completed WC Stage		
Sl. No.	Doc No.	Title
1	WRD 13 (24522)	LAYING OF CEMENT CONCRETE AND STONE SLABS LINING IN CANALS CODE OF PRACTICE Third Revision of IS 3873
2	WRD 13 (24576)	EARTHWORK ON CANALS CODE OF PRACTICE Second Revision of IS 4701
Finalized Draft Indian Standard		
Sl. No.	Doc No.	Title
No Records Found		
Finalized Draft Indian Standards under Print		
Sl. No.	Doc No.	Title
No Records Found		
Total Published Standards:54 Total Standards Under development:3		
Aspect Wise Report		
Product : 2 Code of Practices : 44 Methods of Test : 0 Terminology : 7 Dimensions : 0 System Standard : 0 Safety Standard : 0 Others : 1 Service Specification : 0 Process Specification : 0 Unclassified : 0		
Annexure-I :List of Indian Standards Withdrawn/Superseded		
Sl. No.	IS No. & Year	Title
1	IS 3860:1966 Reviewed In : 2003	Precast Cement Concreat Slabs for Cannal Lining
2	IS 4745:1968	Code of Practice for Design of Cross-section of Lined Canals
3	IS 4969:1968	Method of Test for Detemining Flexural Strength of Precast Cement Concrete Slabs for Canal Lining
4	IS 5331:1969	Guide for Selection of Type of Lining for Canals
Annexure-II :List of Indian Product Standards		
Sl. No.	IS No. & Year	Title
1	IS 10646:1991 Reviewed In : 2024 Reaffirmed but not taken up for revision	Canal linings - Cementconcrete tiles - Specification First Revision
2	IS 13143:1991	Jointsin concreteliningofcanals - Sealing compound - Specification

