

BUREAU OF INDIAN STANDARDS

Program of Work

WRD 9 : Dams and Spillways

Scope: Standardization of criteria for planning, design, construction, operation, maintenance and related aspects of various types of dams and spillways.

Liaison:

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10135:1985 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Code of practice for drainage system for gravity dams, their foundations and abutments (First Revision)	March, 2025	-	Indigenous
2	IS 10137:2015 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Guidelines for selection of spillways and energy dissipators (First Revision)	March, 2025	-	Indigenous
3	IS 10635:2014 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Freeboard requirement in dams - Guidelines (Second Revision)	February, 2025	-	Indigenous
4	IS 11155:2019 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Construction of spillways and similar overflow structures - Code of practice (Second Revision)	January, 2025	-	Indigenous
5	IS 11216:1985 Reviewed In : 2023	Code of practice for permeability test for masonry during and after construction	October, 2023	-	Indigenous
6	IS 11223:1985 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Guidelines for fixing spillway capacity	March, 2025	2	Indigenous
7	IS 11485:2014 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Criteria for design of sluices in concrete and masonry dams (First Revision)	February, 2025	-	Indigenous
8	IS 11527:2013 Reviewed In : 2025	Structural design of energy dissipators for spillways - Criteria	March, 2025	-	Indigenous

	Decision taken to Reaffirm and Archive	(First Revision)			
9	IS 11772:2009 Reviewed In : 2023	Design of drainage arrangements of energy dissipators and training walls of spillways - Guidelines (First Revision)	October, 2023	-	Indigenous
10	IS 12169:1987 Reviewed In : 2025	Criteria for design of small embankment dams	January, 2025	1	Indigenous
11	IS 12200:2001 Reviewed In : 2023	Provision of water - Stops at transverse contraction joints in masonry and concrete dams - Code of practice (First Revision)	October, 2023	-	Indigenous
12	IS 12720:2004 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Criteria for structural design of spillway training walls and divide walls (Second Revision)	March, 2025	-	Indigenous
13	IS 12731:1989 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Hydraulic design of impact type energy dissipators - Recommendations	March, 2025	-	Indigenous
14	IS 12804:2025	Hydraulic Design of Spillway Aerators- Guidelines (First Revision)		-	Indigenous
15	IS 12804:1989 Reviewed In : 2025	Criteria for estimation of aeration demand for spillway and outlet structures	March, 2025	-	Indigenous
16	IS 12966 (Part 1):1992 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Code of practice for galleries and other openings in dams: Part 1 general requirements	January, 2025	-	Indigenous
17	IS 12966 (Part 2):2024	GALLERIES AND OTHER OPENINGS IN DAMS - CODE OF PRACTICE : PART 2 STRUCTURAL DESIGN		-	Indigenous
18	IS 13048:1991 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Recommendations for hydraulic design of duck bill spillways	March, 2025	-	Indigenous
19	IS 13144:1991 Reviewed In : 2023	Recommendations for provision of facilities outside the dams	October, 2023	-	Indigenous
20	IS 13195:1991 Reviewed In : 2025	Preliminary design, operation and maintenance of protection works downstream of spillways - Guidelines	March, 2025	-	Indigenous
21	IS 13551:1992 Reviewed In : 2023	Structural design of spillway pier and crest - Criteria	October, 2023	-	Indigenous
22	IS 13645:1993 Reviewed In : 2023	Guniting the upstream face of masonry dams - Guidelines	October, 2023	1	Indigenous
23	IS 14591:1999 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Temperature control of mass concrete for dams - Guidelines	March, 2025	-	Indigenous

24	IS 14690:1999 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Quality control during construction of earth and rockfill dams - Recommendations	March, 2025	-	Indigenous
25	IS 14954:2001 Reviewed In : 2021	Distress and remedial measures in earth and rockfill dams - Guidelines	March, 2021	-	Indigenous
26	IS 15058:2002 Reviewed In : 2023	PVC water - Stops at transverse contraction joints for use in masonry and concrete dams - Specification	October, 2023	1	Indigenous
27	IS 17837:2022	Junction of Earth Earth Core Rockfill Dam with Spillways NOF Dams Foundations and Outlets Guidelines		-	Indigenous
28	IS 18662:2024	PLANNING AND STRUCTURAL DESIGN OF CONCRETE FACE ROCKFILL DAM - GUIDELINES		-	Indigenous
29	IS 4410 (Part 8):1992 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Glossary of terms relating to river valley projects: Part 8 dams and dam: Section (First Revision)	January, 2025	-	Indigenous
30	IS 4410 (Part 9):1982 Reviewed In : 2021	Glossary of terms relating to river valley projects: Part 9 spillways and siphons (First Revision)	March, 2021	-	Indigenous
31	IS 4410 (Part 18):1983 Reviewed In : 2021	Glossary of terms relating to river valley projects: Part 18 energy dissipation devices (Stilling Basins)	March, 2021	-	Indigenous
32	IS 4997:1968 Reviewed In : 2025	Criteria for design of hydraulic jump type stilling basins with horizontal and sloping apron	March, 2025	1	Indigenous
33	IS 5186:1994 Reviewed In : 2025	Design of chute and side channel spillways - Criteria (First Revision)	February, 2025	1	Indigenous
34	SP 55:1993 Reviewed In : 2020	Design aid for anchorages for spillway piers, training walls and divide walls	March, 2020	-	Indigenous
35	IS 6512:2019 Reviewed In : 2025	Criteria for design of solid gravity dams (Second Revision)	January, 2025	-	Indigenous
36	IS 6934:2024	HYDRAULIC DESIGN OF OGEE OVERFLOW AND ORIFICE SPILLWAYS - RECOMMENDATIONS Third Revision		-	Indigenous
37	IS 7365:2010 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Criteria for hydraulic design of bucket type energy dissipators (Second Revision)	February, 2025	-	Indigenous
38	IS 7894:1975 Reviewed In : 2025	Code of practice for stability analysis of earth dams	January, 2025	1	Indigenous
39	IS 8605:1977 Reviewed In : 2023	Code of practice for construction of masonry in dams	October, 2023	1	Indigenous
40	IS 8826:1978 Reviewed In : 2025	Guidelines for design of large earth and rockfill dams	January, 2025	1	Indigenous

41	IS 9296:2001 Reviewed In : 2023	Inspection and maintenance of dams and appurtenant structures - Guidelines (First Revision)	October, 2023	-	Indigenous
42	IS 9297:2024	Lighting, Ventilation and Other Facilities Inside Dams - Recommendations (FIRST REVISION)		-	Indigenous
43	IS 9429:1999 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Drainage system for earth and rockfill dams - Code of practice (First Revision)	January, 2025	-	Indigenous

Standards under Development

Projects Approved		
Sl. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards		
Sl. No.	Doc No.	Title
No Records Found		

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 9 (26569)	Construction of Masonry in Dams Code of Practice
2	WRD 9 (26589)	Design of Hydraulic Jump Type Stilling Basins with Horizontal and Sloping Apron Criteria
3	WRD 9 (26640)	Provision of Facilities Outside the Dams Recommendations

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:41 Total Standards Under development:3		
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Aspect Wise Report

Product : 1

Code of Practices : 34

Methods of Test : 0

Terminology : 3

Dimensions : 0

System Standard : 0

Safety Standard : 0
Others : 4
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded
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SI. No.	IS No. & Year	Title
<i>No Records Found</i>		

Annexure-II :List of Indian Product Standards
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SI. No.	IS No. & Year	Title
1	IS 15058:2002 Reviewed In : 2023	PVC water - Stops at transverse contraction joints for use in masonry and concrete dams - Specification