

BUREAU OF INDIAN STANDARDS

Program of Work

WRD 14 : Water Conductor Systems

Scope: Standardization of criteria for planning, design, construction, maintenance and related aspects of all components of water conductor systems.

Liaison:

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11105 : 2004 Reviewed In : 2020	Design and Construction of Tunnel Plugs - Code of Practice	March, 2020	-	Indigenous
2	IS 11388 : 2012 Reviewed In : 2022	Recommendations for design of trash racks for intakes (Second Revision)	September, 2022	-	Indigenous
3	IS 11625 : 1986 Reviewed In : 2020	Criteria for hydraulic design of penstocks	March, 2020	-	Indigenous
4	IS 11639 (Part 1) : 1986 Reviewed In : 2020	Criteria for struc design of penstocks: Part 1 surface penstocks	March, 2020	1	Indigenous
5	IS 11639 (Part 2) : 1995 Reviewed In : 2020	Structural destgn of penstocks - Criteria: Part 2 buried/embedded penstocks in rock	March, 2020	-	Indigenous
6	IS 11639 (Part 3) : 1996 Reviewed In : 2023	Structural design of penstock - Criteria: Part 3 specials for penstocks	March, 2023	4	Indigenous
7	IS 12633 : 1989 Reviewed In : 2023	First filling and emptying of pressure tunnels - Guidelines	March, 2023	2	Indigenous
8	IS 12967 (Part 1) : 1990 Reviewed In : 2020	Analysis of hydraulic transients in hydro - Electric and pumping plants - Code of practice: Part 1 criteria for analysis	March, 2020	-	Indigenous
9	IS 13495 : 1992 Reviewed In : 2023	Design of sediment excluders - Guidelines	March, 2023	-	Indigenous
10	IS 15310 : 2003 Reviewed In : 2023	Eiydraulic design of pump sumps and intakes - Guidelines	March, 2023	-	Indigenous
11	IS 16173 : 2014 Reviewed In : 2020	Criteria for hydraulic design of sediment removal devices for hydro power projects (First Revision)		-	Indigenous
12	IS 4410 (Part 20) : 1983 Reviewed In : 2020	Glossary of terms relating to river valley projects: Part 20 tunnels	March, 2020	-	Indigenous
13	IS 4880 (Part 1) : 1987 Reviewed In : 2023	Code of practice for design of tunnels conveying water: Part 1 general design (First Revision)	March, 2023	1	Indigenous
14	IS 4880 (Part 2) : 1976	Code of practice for design of tunnels conveying water: Part 2	March, 2020	-	Indigenous

	Reviewed In : 2020	geometric design (First .revision)			
15	IS 4880 (Part 3) : 1976 Reviewed In : 2020	Code of practice for design of tunnels conveying water: Part 3 hydraulic design (First Revision)	March, 2020	-	Indigenous
16	IS 4880 (Part 4) : 1971 Reviewed In : 2020	Code of practice for design in tunnels conveying water: Part 4 structural design of concrete lining in rock	March, 2020	2	Indigenous
17	IS 4880 (Part 5) : 1972 Reviewed In : 2020	Code of practice for design of tunnels conveying water: Part 5 structural design of concrete lining in soft strata and soils	March, 2020	2	Indigenous
18	IS 4880 (Part 6) : 1971 Reviewed In : 2020	Code of practice for design of tunnels conveying water: Part 6 tunnel supports	March, 2020	-	Indigenous
19	IS 4880 (Part 7) : 2014 Reviewed In : 2020	Code of practice for design of tunnels conveying water: Part 7 structural design of steel lining (First Revision)		-	Indigenous
20	IS 5330 : 1984 Reviewed In : 2020	Criteria for design of anchor blocks for penstocks with expansion joints (First Revision)	March, 2020	-	Indigenous
21	IS 5878 (Part 1) : 1971 Reviewed In : 2023	Code of practice for construction of tunnels conveying water: Part 1 precision survey and setting out	March, 2023	2	Indigenous
22	IS 5878 (Part 2/Sec 1) : 1970 Reviewed In : 2020	Code of practice for construction of tunnels: Part 2 underground excavation in rock: Sec 1 drilling and blasting	March, 2020	1	Indigenous
23	IS 5878 (Part 2/Sec 2) : 1971 Reviewed In : 2020	Code of practice for construction of tunnels: Part 2 underground excavation in rock: Sec 2 ventilation, lighting, mucking and dewatering	March, 2020	1	Indigenous
24	IS 5878 (Part 2/Sec 3) : 1971 Reviewed In : 2020	Code of practice for construction of tunnels conveying water: Part 2 underground excavation in rock section: tunneling method for steeply inclined tunnels, shafts and underground power houses	March, 2020	2	Indigenous
25	IS 5878 (Part 3) : 1972 Reviewed In : 2020	Code of practice for construction of tunnels: Part 3 underground excavation in soft strata	March, 2020	1	Indigenous
26	IS 5878 (Part 4) : 1971 Reviewed In : 2020	Code of practice for construction of tunnels conveying water: Part iv tunnel supports	March, 2020	2	Indigenous
27	IS 5878 (Part 5) : 1976 Reviewed In : 2020	Code of practice for construction of tunnels conveying water: Part 5 concrete lining (First Revision)	March, 2020	1	Indigenous
28	IS 5878 (Part 6) : 1975 Reviewed In : 2020	Code of practice for construction of tunnels: Part 6 steel lining	March, 2020	1	Indigenous
29	IS 5878 (Part 7) : 1972 Reviewed In : 2020	Code of practice for construction of tunnels conveying water: Part 7 grouting	March, 2020	2	Indigenous
30	IS 7357 : 1974 Reviewed In : 2020	Code of practice for structural design of surge tanks	March, 2020	-	Indigenous
31	IS 7396 (Part 1) : 1985	Criteria for hydraulic design of surge tanks: Part 1 simple,	March, 2020	-	Indigenous

	Reviewed In : 2020	restricted orifice and differential surge tanks (First Revision)			
32	IS 7396 (Part 2) : 1985 Reviewed In : 2020	Criteria for hydraulic design of surge tanks: Part 2 tail race surge tanks (First Revision)	March, 2020	-	Indigenous
33	IS 7396 (Part 3) : 1990 Reviewed In : 2020	Criteria for hydraulic design of surge tanks: Part 3 special surge tanks	March, 2020	-	Indigenous
34	IS 7396 (Part 4) : 1983 Reviewed In : 2020	Criteria for hydraulic design of surge tanks: Part 4 multiple surge tanks	March, 2020	-	Indigenous
35	IS 7563 : 1986 Reviewed In : 2020	Code of practice for structural design of cut and cover concrete conduits (First Revision)	March, 2020	1	Indigenous
36	IS 7916 : 1992 Reviewed In : 2023	Open power channels - Code of practice (First Revision)	March, 2023	-	Indigenous
37	IS 9761 : 1995 Reviewed In : 2020	Hydropower intakes - Criteria for hydraulic design (First Revision)	March, 2020	-	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	WRD 14 (26562)	DESIGN OF TUNNELS CONVEYING WATER PART 1 GENERAL DESIGN - CODE OF PRACTICE Second Revision of IS 4880 Part 1

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Total Published Standards:37 Total Standards Under development:1

Aspect Wise Report

Product : 0

Code of Practices : 36
Methods of Test : 0
Terminology : 1
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 0
Service Specification : 0
Process Specification : 0
Unclassified : 0

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

Annexure-II :List of Indian Product Standards
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Sl. No.	IS No. & Year	Title
<i>No Records Found</i>		