

# BUREAU OF INDIAN STANDARDS

## Program of Work

### WRD 12 : Hydraulic Gates and Valves

Scope: Standardization of criteria for selection, design, construction, maintenance, operation and testing of gates and valves.

Liaison:

## Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10021:2000 <span style="color: green;">Reviewed In : 2023</span>	Guidelines for de - Icing system for hydraulic installations (First Revision)	March, 2023	-	Indigenous
2	IS 10096 (Part 1/Sec 1):2014 <span style="color: green;">Reviewed In : 2025</span>	Recommendations for inspection; testing and maintenance of radial gates and their hoists: Part 1 inspection, testing and assembly at the manufacturing stage: Sec 1 gates	February, 2025	-	Indigenous
3	IS 10096 (Part 1/Sec 2):2014 <span style="color: green;">Reviewed In : 2024</span>	Recommendations for inspection, testing and maintenance of radial gates and rope drum hoists: Part 1 inspection, testing and assembly at the manufacturing stage: Sec 2 rope drum hoists (First Revision)	June, 2024	-	Indigenous
4	IS 10096 (Part 2):1983 <span style="color: green;">Reviewed In : 2025</span>	Recommendations for inspection, testing and maintenance of radial gates and their hoists: Part 2 inspection, testing and assembly at the time of erection	March, 2025	2	Indigenous
5	IS 10096 (Part 3):2002 <span style="color: green;">Reviewed In : 2023</span>	Recommendations for inspection, testing and maintenance of radial gates and rope drum hoists: Part 3 after erection (Second Revision)	March, 2023	1	Indigenous
6	IS 10210:1993 <span style="color: green;">Reviewed In : 2023</span>	Criteria for design of hydraulic hoists for gates (First Revision)	March, 2023	1	Indigenous
7	IS 11228:2023	Recommendations for design of screw hoists for hydraulic gates First revision		-	Indigenous
8	IS 11793:1986 <span style="color: green;">Reviewed In : 2025</span>	Guidelines for design of float driven hoisting mechanism for automatic gated control	March, 2025	-	Indigenous
9	IS 11855:2017 <span style="color: green;">Reviewed In : 2022</span>	Design and use of rubber seals for hydraulic gates - Recommendations (Second Revision)	July, 2022	-	Indigenous
10	IS 13041:2013 <span style="color: green;">Reviewed In : 2023</span>	Recommendations for inspection, testing and maintenance of	March, 2023	-	Indigenous

		hydraulic hoist (After Erection) (First Revision)			
11	IS 13591:2019 <a href="#">Reviewed In : 2024</a>	Criteria for design of lifting beams (First Revision)	August, 2024	-	Indigenous
12	IS 13623:1993 <a href="#">Reviewed In : 2023</a>	Criteria for choice of gates and hoists	March, 2023	1	Indigenous
13	IS 14177:2023	PAINTING SYSTEM FOR HYDRAULIC GATES AND HOISTS - GUIDELINES First Revision of IS 14177		-	Indigenous
14	IS 4410 (Part 16/Sec 1):1999 <a href="#">Reviewed In : 2023</a>	Glossary of terms relating to river valley projects: Part 16 gates and valves: Sec 1 gate and Terms related with gates (First Revision)	March, 2023	-	Indigenous
15	IS 4410 (Part 16/Sec 2):1981 <a href="#">Reviewed In : 2025</a>	Glossary of terms relating to river valley projects: Part xvi gates and valves: Sec 2 valves	February, 2025	-	Indigenous
16	IS 4410 (Part 23):1999 <a href="#">Reviewed In : 2023</a>	Glossary of terms relating to river valley projects	March, 2023	-	Indigenous
17	IS 4622:2020 <a href="#">Reviewed In : 2020</a>	Recommendations for Structural Design of Fixed-Wheel Gates ( Fourth Revision )	-	-	Indigenous
18	IS 4623:2000 <a href="#">Reviewed In : 2024</a>	Recommendations for structural design of radial gates (Third Revision)	March, 2024	-	Indigenous
19	IS 5620:2020 <a href="#">Reviewed In : 2020</a>	Recommendations for Structural Design Criteria for Low Head Slide Gates ( Third Revision )	-	-	Indigenous
20	IS 6938:2005 <a href="#">Reviewed In : 2025</a>	Design of rope drum and chain hoists for hydraulic gates - Code of practice (Second Revision)	February, 2025	2	Indigenous
21	IS 7326 (Part 1):1992 <a href="#">Reviewed In : 2023</a>	Penstock and turbine inlet butterfly valves for hydropower stations and systems: Part 1 criteria for structural and hydraulic design (First Revision)	March, 2023	-	Indigenous
22	IS 7326 (Part 2):1992 <a href="#">Reviewed In : 2023</a>	Penstock and turbine inlet butterfly valves for hydro - Power stations and systems: Part 2 guidelines for design and selection of control	March, 2023	-	Indigenous
23	IS 7326 (Part 3):1976 <a href="#">Reviewed In : 2023</a>	Penstock and turbine inlet butterfly valves for hydropower stations and systems: Part 3 recommendations for operations and maintenance	March, 2023	-	Indigenous
24	IS 7332 (Part 1):1991 <a href="#">Reviewed In : 2023</a>	Spherical valves for hydropower stations and systems: Part 1 criteria for structural and hydraulic design (First Revision)	March, 2023	1	Indigenous
25	IS 7332 (Part 2):1993 <a href="#">Reviewed In : 2023</a>	Spherical valves for hydropower stations and systems: Part 2 selection of control equipment (First Revision)	March, 2023	-	Indigenous
26	IS 7332 (Part 3):1994 <a href="#">Reviewed In : 2023</a>	Spherical valves for hydropower stations and systems: Part 3 recommendations for operation and maintenance of spherical valves (First Revision)	March, 2023	-	Indigenous

27	IS 7718:2018 Reviewed In : 2023	Recommendations for inspection, testing and maintenance of fixed wheel and slide gate (Second Revision)	January, 2023	-	Indigenous
28	IS 9349:2006 Reviewed In : 2025	Recommendations for structural design of medium and high head slide gates (Second Revision)	March, 2025	-	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
1	WRD 12 (27377)	Recommendations for Structural Design of Stoplog
2	WRD 12 (27378)	Design of Lock Gates

#### Draft Standards Completed WC Stage

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

#### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	WRD 12 (26021) Revision of: IS 9349:2006	RECOMMENDATIONS FOR STRUCTURAL DESIGN OF MEDIUM AND HIGH HEAD SLIDE GATES

#### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	WRD 12 (00653) Revision of: IS 5620:2020	Recommendations for Structural Design Criteria for Low Head Slide Gates
2	WRD 12 (00571) Revision of: IS 11855:2017	Guidelines for Design and Use of Different Types of Rubber Seals for Hydraulic Gates
3	WRD 12 (00678)	Recommendations for structural design of fixed-wheel gates Fourth Revision - IS 4622 2003
4	WRD 12 (00655)	Amendment No 1 to IS 10096 Part 3 2002
5	WRD 12 (00679)	Amendment No 1 to IS 10210 1993
6	WRD 12 (00590) Revision of: IS 7718:2018	Recommendations for inspection testing and maintenance of fixed wheel and slide gates
7	WRD 12 (14093) Revision of: IS 13591:2019	Criteria for Design of Lifting Beams
8	WRD 12 (17639) Revision of: IS 11228:1985	Recommendations for design of screw hoists for hydraulic gates First revision
9	WRD 12 (18191) Revision of: IS 14177:1994	PAINTING SYSTEM FOR HYDRAULIC GATES AND HOISTS - GUIDELINES First Revision of IS 14177
10	WRD 12 (25926) Revision of: IS 4623:2000	RECOMMENDATIONS FOR STRUCTURAL DESIGN OF RADIAL GATES

11	WRD 12 (25932) Revision of: IS 11855:2017	DESIGN AND USE OF RUBBER SEALS FOR HYDRAULIC GATES - RECOMMENDATIONS
12	WRD 12 (26022) Revision of: IS 4622:2020	RECOMMENDATIONS FOR STRUCTURAL DESIGN OF FIXED-WHEEL GATES

**Total Published Standards:28 Total Standards Under development:15**

**Aspect Wise Report**

Product : 0  
 Code of Practices : 23  
 Methods of Test : 0  
 Terminology : 3  
 Dimensions : 0  
 System Standard : 0  
 Safety Standard : 0  
 Others : 2  
 Service Specification : 0  
 Process Specification : 0  
 Unclassified : 0

**Annexure-I :List of Indian Standards Withdrawn/Superseded**

SI. No.	IS No. & Year	Title
1	IS 15466:2004 Reviewed In : 2018	Rubber seals for hydraulic gates - Specification

**Annexure-II :List of Indian Product Standards**

SI. No.	IS No. & Year	Title
<i>No Records Found</i>		