

BUREAU OF INDIAN STANDARDS

Program of Work

WRD 16 : Hydraulic Structures Instrumentation

Scope: Standardization of criteria for selection, installation, usage and maintenance of instruments used for the measurement of displacement, strain, stress, temperature etc. in hydraulic structures.

Liaison:

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10334:2026	SELECTION SPLICING INSTALLATION AND PROVIDING PROTECTION TO THE OPEN ENDS OF CABLES USED FOR CONNECTING RESISTANCE TYPE MEASURING DEVICES IN CONCRETE AND MASONRY DAMS CODE OF PRACTICE		-	Indigenous
2	IS 10334:1982	Code of practice for selection, splicing, installation and providing protection to the open ends of cables used for connecting resistance type measuring devices in concrete and masonry dams	March, 2025	-	Indigenous
3	IS 10434 (Part 2):2026	INSTALLATION MAINTENANCE AND OBSERVATION OF DEFORMATION MEASURING DEVICES IN CONCRETE AND MASONRY DAMS GUIDELINES PART 2 VIBRATING WIRE TYPE JOINTMETER		-	Indigenous
4	IS 10434 (Part 1):2003	Installation, maintenance and observation of deformation measuring devices in concrete and masonry dams - Guidelines: Part 1 resistance type jointmeters (First Revision)	March, 2023	-	Indigenous
5	IS 10434 (Part 2):1996	Guidelines for installation, maintenance and observation of deformation measuring devices in concrete and mas - Onry dams: Part 2 vibrating, wire type jointmeter	March, 2025	1	Indigenous
6	IS 12949:2013	Installation, maintenance and	March, 2023	-	Indigenous

		observation of instruments for pore pressure measurements in earth and rockfill dams - Vibrating wire type electrical pore pressure cell - Code of practice (First Revision)			
7	IS 13073 (Part 1):2002	Installation, maintenance and observation of displacement measuring devices in concrete and masonry dams - Code of practice: Part 1 deflection measurement using plumb lines (First Revision)	March, 2023	-	Indigenous
8	IS 13073 (Part 2):2000	Code of practice for installation, maintenance and observation of displacement measuring devices for concrete and masonry dams: Part 2 geodetic observation - Crest collimation	March, 2025	-	Indigenous
9	IS 13232:1992	Installation, maintenance and observations of electrical strain measuring devices in concrete dams - Code of practice	March, 2023	-	Indigenous
10	IS 14248:1995	Guidelines for instrumentation of barrages and weirs	March, 2025	-	Indigenous
11	IS 14278:1995	Stress measuring devices in concrete and masonry dams - Installation, commissioning and observations - Code of practice	March, 2025	1	Indigenous
12	IS 14750:2014	Code of practice for installation, maintenance and observation of seepage measuring devices for concrete/masonry and earth/rockfill dams (First Revision)	March, 2025	-	Indigenous
13	IS 14793:2013	Installation, maintenance and observation of the instruments for vibration studies other than earthquakes on hydraulic structures and machines - Code of practice (First Revision)	March, 2023	-	Indigenous
14	IS 17158:2019	Guide for type of measurement, choice of location and type of instruments for underground powerhouse	May, 2024	-	Indigenous
15	IS 6524:1972	Code of practice for installation and observation of instruments for temperature measurements inside dams : resistance type thermometers	March, 2023	1	Indigenous
16	IS 6532:1972	Code of practice for design, installation, observation and maintenance of uplift pressure pipes for hydraulic structures on permeable foundations	March, 2025	-	Indigenous
17	IS 7356 (Part 1):2002	Code of practice for installation, maintenance and observation of instruments for pore pressure measurements in earth dams and rockfill dams - Part 1 : porous	April, 2021	1	Indigenous
18	IS 7356 (Part 2):2003	Installation, observation and maintenance of instruments for	March, 2023	-	Indigenous

		pore pressure measurements in earth and rockfill dams - Code of practice: Part 2 twin tube hydraulic piezometers (Second Revision)			
19	IS 7436 (Part 1):1993	Guide for types of measurements for structures in river valley projects and criteria for choice and location of measuring instruments: Part 1 for earth and rockfill dams (First Revision)	March, 2023	-	Indigenous
20	IS 7436 (Part 2):2019	Guide for types of measurements for structures in river valley projects and criteria for choice and location of measuring instrument: Part 2 concrete and masonry dams (Second Revision)	July, 2024	1	Indigenous
21	IS 7500:2000	Code of practice for installation and observation of cross arms for measurement of internal vertical movement in earth dams (First Revision)	March, 2025	-	Indigenous
22	IS 8226:2017	Installation and observation of base plate apparatus for measurement of foundation settlement in embankments - Code of practice (First Revision)	December, 2022	-	Indigenous
23	IS 8282 (Part 1):1976	Code of practice for installation, maintenance and observations of pore pressure measuring devices in concrete and masonry dams: Part 1 electrical resistance type cell	March, 2023	-	Indigenous
24	IS 8282 (Part 2):1996	Installation, maintenance and observations of pore pressure measuring devices in concrete and masonry dams - Code of practice: Part 2 vibrating wire type cell	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 16 (27379)	Surveillance and Performance Monitoring of Hydraulic Structures - Guidelines

Draft Standards Completed WC Stage

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

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
1	WRD 16 (00650)	Amendment 1 to IS 6524 1972
2	WRD 16 (00663)	Amendment No 1 to IS 10434 Part 2 1996
3	WRD 16 (00588) Revision of: IS 8226:2017	Code of practice for installation and observation of base plates for measurement of foundation settlement in embankments
4	WRD 16 (00681)	Guide for type of measurement Choice of location and type of instruments for underground power house
5	WRD 16 (10907) Revision of: IS 7436:2019	WRD 16 10907 Guide for types of measurements for structures in river valley projects and criteria for choice and location of measuring instrument Part 2 Concrete and Masonry Dams Second Revision
6	WRD 16 (13984)	Guide for types of measurements for structures in river valley projects and criteria for choice and location of measuring instruments Part 2 Concrete and masonry dams Amendment - 1
7	WRD 16 (15951)	Surveillance and Performance Monitoring of Hydraulic Structures - Guidelines
8	WRD 16 (16507)	Guide for types of measurements for structures in river valley projects and criteria for choice and location of measuring instrument Part 2 concrete and masonry dams Second Revision Amendment - 1
9	WRD 16 (27508) Revision of: IS 6524:1972	INSTALLATION AND OBSERVATION OF INSTRUMENTS FOR TEMPERATURE MEASUREMENTS INSIDE DAMS - CODE OF PRACTICE RESISTANCE TYPE THERMOMETERS
10	WRD 16 (27510) Revision of: IS 6532:1972	DESIGN INSTALLATION OBSERVATION AND MAINTENANCE OF UPLIFT PRESSURE PIPES FOR HYDRAULIC STRUCTURES ON PERMEABLE FOUNDATIONS CODE OF PRACTICE
11	WRD 16 (27511) Revision of: IS 7436:1993	TYPES OF MEASUREMENTS FOR STRUCTURES IN RIVER VALLEY PROJECTS AND CRITERIA FOR CHOICE AND LOCATION OF MEASURING INSTRUMENTS GUIDELINES PART 1 FOR EARTH AND ROCKFILL DAMS
12	WRD 16 (27512) Revision of: IS 8282:1976	INSTALLATION MAINTENANCE AND OBSERVATIONS OF PORE PRESSURE MEASURING DEVICES IN CONCRETE AND MASONRY DAMS CODE OF PRACTICE PART I ELECTRICAL RESISTANCE TYPE CELL
13	WRD 16 (27513) Revision of: IS 8282:1996	INSTALLATION MAINTENANCE AND OBSERVATIONS OF PORE PRESSURE MEASURING DEVICES IN CONCRETE AND MASONRY DAMS CODE OF PRACTICE PART 2 VIBRATING WIRE TYPE CELL
14	WRD 16 (27514) Revision of: IS 10334:1982	SELECTION SPLICING INSTALLATION AND PROVIDING PROTECTION TO THE OPEN ENDS OF CABLES USED FOR CONNECTING RESISTANCE TYPE MEASURING DEVICES IN CONCRETE AND MASONRY DAMS CODE OF PRACTICE
15	WRD 16 (27515) Revision of: IS 10434:1996	INSTALLATION MAINTENANCE AND OBSERVATION OF DEFORMATION MEASURING DEVICES IN CONCRETE AND MASONRY DAMS GUIDELINES PART 2 VIBRATING WIRE TYPE JOINTMETER
16	WRD 16 (27516) Revision of: IS 13232:1992	INSTALLATION MAINTENANCE AND OBSERVATION OF ELECTRICAL STRAIN MEASURING DEVICES IN CONCRETE DAMS CODE OF PRACTICE
17	WRD 16 (27517) Revision of: IS 14248:1995	INSTRUMENTATION OF BARRAGES AND WEIRS GUIDELINES
18	WRD 16 (27518) Revision of: IS 14278:1995	INSTALLATION COMMISSIONING AND OBSERVATIONS OF STRESS MEASURING DEVICES IN CONCRETE AND MASONRY DAMS CODE OF PRACTICE

Total Published Standards:22 Total Standards Under development:19

Aspect Wise Report

Product : 0
Code of Practices : 21
Methods of Test : 0

Terminology : 0
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
--

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

Annexure-II :List of Indian Product Standards
--

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