

## 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 : 1982 <span style="color: green;">Reviewed In : 2020</span>	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, 2020	-	Indigenous
2	IS 10434 (Part 1) : 2003 <span style="color: green;">Reviewed In : 2023</span>	Installation, maintenance and observation of deformation measuring devices in concrete and masonry dams - Guidelines: Part 1 resistance type jointmeters (First Revision)	March, 2023	-	Indigenous
3	IS 10434 (Part 2) : 1996 <span style="color: green;">Reviewed In : 2020</span>	Guidelines for installation, maintenance and observation of preformation measuring devices in concrete and mas - Onry dams: Part 2 vibrating, wire type jointmeter	March, 2020	1	Indigenous
4	IS 12949 : 2013 <span style="color: green;">Reviewed In : 2023</span>	Installation, maintenance and observation of instruments for pore pressure measurements in earth and rockfill dams - Vibrating wire type electrical pore pressure cell - Code of practice (First Revision)	March, 2023	-	Indigenous
5	IS 13073 (Part 1) : 2002 <span style="color: green;">Reviewed In : 2023</span>	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
6	IS 13073 (Part 2) : 2000 <span style="color: green;">Reviewed In : 2020</span>	Code of practice for installation, maintenance and observation of displacement measuring devices for concrete and masonry dams: Part 2 geodetic observation - Crest collimation	March, 2020	-	Indigenous
7	IS 13232 : 1992	Installation, maintenance and	March, 2023	-	Indigenous

	Reviewed In : 2023	observations of electrical strain measuring devices in concrete dams - Code of practice			
8	IS 14248 : 1995 Reviewed In : 2020	Guidelines for instrumentation of barrages and weirs	March, 2020	-	Indigenous
9	IS 14278 : 1995 Reviewed In : 2020	Stress measuring devlCes In concrete and masonry dams - Installation, commissioning and observations - Code of practice	March, 2020	1	Indigenous
10	IS 14750 : 2014 Reviewed In : 2020	Code of practice for installation, maintenance and observation of seepage measuring devices for concrete/masonry and earth/rockfill dams (First Revision)	March, 2020	-	Indigenous
11	IS 14793 : 2013 Reviewed In : 2023	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
12	IS 17158 : 2019 Reviewed In : 2024	Guide for type of measurement, choice of location and type of instruments for underground power house	May, 2024	-	Indigenous
13	IS 6524 : 1972 Reviewed In : 2023	Code of practice for installation and observation of instruments for temperature measurements inside dams : resistance type thermometers	March, 2023	1	Indigenous
14	IS 6532 : 1972 Reviewed In : 2020	Code of practice for design, installation, observation and maintenance of uplift pressure pipes for hydraulic structures on permeable foundations	March, 2020	-	Indigenous
15	IS 7356 (Part 1) : 2002 Reviewed In : 2021	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
16	IS 7356 (Part 2) : 2003 Reviewed In : 2023	Installation, observation and maintenance of instruments for pore pressure measurements in earth and rockfill dams - Code of practice: Part 2 twin tube hydraulic piezometers (Second Revision)	March, 2023	-	Indigenous
17	IS 7436 (Part 1) : 1993 Reviewed In : 2023	Guide fort ypes of measurements for structures in river valley projekts and critbria for choice and location of measuring instruments: Part 1 for earth and rockfill dams (First Revision)	March, 2023	-	Indigenous
18	IS 7436 (Part 2) : 2019 Reviewed In : 2024	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
19	IS 7500 : 2000 Reviewed In : 2020	Code of practice for installation and observation of cross arms for	March, 2020	-	Indigenous

		measurement of internal vertical movement in earth dams (First Revision)			
20	IS 8226 : 2017 Reviewed In : 2022	Installation and observation of base plate apparatus for measurement of foundation settlement in embankments - Code of practice (First Revision)	December, 2022	-	Indigenous
21	IS 8282 (Part 1) : 1976 Reviewed In : 2023	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
22	IS 8282 (Part 2) : 1996 Reviewed In : 2020	Installation, maintenance and observations of pore pressure measuring devices in concrete and masonry dams - Code of practice: Part 2 vibrating wire type cell	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
<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
<i>No Records Found</i>		

Total Published Standards:22 Total Standards Under development:0

### 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

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

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