

BUREAU OF INDIAN STANDARDS

Program of Work

WRD 5 : Geological Investigation and Subsurface Exploration

Scope: Standardization of criteria for choice of methods, investigations and testing of subsurface strata and recommendations for collection and presentation of data.

Liaison:

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10060 : 2013 Reviewed In : 2024 Decision taken to Reaffirm and Archive	Geotechnical investigation for power house sites - Code of practice (First Revision)	March, 2024	-	Indigenous
2	IS 10290 : 1982 Reviewed In : 2024 Decision taken to Reaffirm and Archive	Code of practice for photogeological interpretation and mapping of river valley project sites	March, 2024	-	Indigenous
3	IS 11385 : 2008 Reviewed In : 2020	Subsurface exploration for canals and cross drainage works - Code of practice (First Revision)	February, 2020	-	Indigenous
4	IS 13216 : 1991 Reviewed In : 2024	Code of practice for geological exploration for reservoir sites	March, 2024	2	Indigenous
5	IS 13578 : 2008 Reviewed In : 2020	Subsurface exploration for barrages and weirs - Code of practice (First Revision)	February, 2020	1	Indigenous
6	IS 14330 : 1996 Reviewed In : 2020	Ground water investigation for hydraulic structures - Guidelines	February, 2020	-	Indigenous
7	IS 15662 : 2006 Reviewed In : 2020	Geological exploration for gravity dams and overflow structures - Code of practice	February, 2020	2	Indigenous
8	IS 15681 : 2006 Reviewed In : 2020	Geological exploration by geophysical method (Seismic Refraction) - Code of practice	February, 2020	-	Indigenous
9	IS 15686 : 2006 Reviewed In : 2020	Recommendations for preparation of geological and geotechnical maps for river valley projects	February, 2020	-	Indigenous
10	IS 15736 : 2007 Reviewed In : 2024	Geological exploration by geophysical method (Electrical Resistivity) - Code of practice	February, 2024	1	Indigenous
11	IS 17883 : 2022	Geological Exploration for Tunnels Guidelines	-	-	Indigenous
12	IS 4078 : 1980 Reviewed In : 2024 Decision taken to Reaffirm and	Code of practice for indexing and storage of drill cores (First Revision)	February, 2024	-	Indigenous

	Archive				
13	IS 4410 (Part 7) : 1982 Reviewed In : 2020	Glossary of terms relating to river valley projects: Part 7 engineering geology (First Revision)	February, 2020	-	Indigenous
14	IS 4453 : 2009 Reviewed In : 2020	Subsurface exploration by pits, trenches, drifts and shafts - Code of practice (Second Revision)	February, 2020	-	Indigenous
15	IS 4464 : 2020	Code of Practice for Presentation of Drilling Information and Core Description in Geotechnical Investigation (Second Revision)	-	-	Indigenous
16	IS 5313 : 2020	Guide for Core Drilling Observations (Second Revision)	-	-	Indigenous
17	IS 5497 : 2008 Reviewed In : 2024 Decision taken to Reaffirm and Archive	Guide to topographical surveys for river valley projects (Second Revision)	February, 2024	-	Indigenous
18	IS 5529 (Part 1) : 2013 Reviewed In : 2024 Decision taken to Reaffirm and Archive	In-situ permeability test Part 1 Test in overburden - Code of practice	February, 2024	-	Indigenous
19	IS 5529 (Part 2) : 2006 Reviewed In : 2020	In - Situ permeability test: Part 2 tests in bedrock (Second Revision)	February, 2020	1	Indigenous
20	IS 6926 : 1996 Reviewed In : 2020	Diamond core drilling - Site investigation for river valley projects - Code of practice (First revision)	February, 2020	-	Indigenous
21	IS 6935 : 1973 Reviewed In : 2024 Decision taken to Reaffirm and Archive	Method for determination of water level in a bore hole	March, 2024	-	Indigenous
22	IS 6955 : 2008 Reviewed In : 2020	Subsurface exploration for earth and rockfill dams - Code of practice (First Revision)	February, 2020	-	Indigenous
23	IS 7422 (Part 1) : 1974 Reviewed In : 2024	Symbols and abbreviations for use in geological Maps: Section and subsurface exbloratory logs: Part 1 abbreviations	February, 2024	-	Indigenous
24	IS 7422 (Part 2) : 1974 Reviewed In : 2024	Symbols and abbreviations for use in geological maps: Section and subsurface exploratory logs: Part 2 igneous rocks	February, 2024	-	Indigenous
25	IS 7422 (Part 3) : 1974 Reviewed In : 2024	Symbols and abbreviations for use in geological maps: Sections and subsurface exploratory logs: Part 3 sedimentary rocks	February, 2024	-	Indigenous
26	IS 7422 (Part 4) : 1985 Reviewed In : 2024	Symbols and abbreviations for use in geological maps: Sections and subsurface exploratory logs: Part 4 metamorphic rocks	February, 2024	-	Indigenous
27	IS 7422 (Part 5) : 1992 Reviewed In : 2020	Symbols and abbreviations for use in geological maps: Sections and sub - Surface exploratory logs: Part	February, 2020	-	Indigenous

	5 line symbols for formation contacts and structural features		
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Standards under Development

Projects Approved

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

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	WRD 5 (21415) Revision of: IS 15681:2006	GEOLOGICAL EXPLORATION BY GEOPHYSICAL METHOD SEISMIC REFRACTION CODE OF PRACTICE First Revision of IS 15681
2	WRD 5 (21422) Revision of: IS 15736:2007	GEOLOGICAL EXPLORATION BY GEOPHYSICAL METHOD ELECTRICAL RESISTIVITY METHOD CODE OF PRACTICE First Revision of IS 15736

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 5 (19982)	GEOLOGICAL EXPLORATION FOR RESERVOIR SITES GUIDELINES FIRST REVISION
2	WRD 5 (21364)	SYMBOLS AND ABBREVIATIONS FOR USE IN GEOLOGICAL MAPS SECTIONS AND SUBSURFACE EXPLORATORY LOGS PART 1 ABBREVIATIONS

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 5 (19981) Revision of: IS 4464:2020	Presentation of Drilling Information and Core Description in Geotechnical Investigation Code of Practice
2	WRD 5 (21365) Revision of: IS 7422:1974	SYMBOLS AND ABBREVIATIONS FOR USE IN GEOLOGICAL MAPS SECTIONS AND SUBSURFACE EXPLORATORY LOGS PART 2 IGNEOUS ROCKS First Revision
3	WRD 5 (21366) Revision of: IS 7422:1974	SYMBOLS AND ABBREVIATIONS FOR USE IN GEOLOGICAL MAPS SECTIONS AND SUBSURFACE EXPLORATORY LOGS PART 3 Sedimentary Rocks First Revision
4	WRD 5 (21369) Revision of: IS 7422:1985	SYMBOLS AND ABBREVIATIONS FOR USE IN GEOLOGICAL MAPS SECTIONS AND SUBSURFACE EXPLORATORY LOGS PART 4 METAMORPHIC ROCKS First Revision
5	WRD 5 (21370) Revision of: IS 7422:1992	SYMBOLS AND ABBREVIATIONS FOR USE IN GEOLOGICAL MAPS SECTIONS AND SUBSURFACE EXPLORATORY LOGS PART 5 LINE SYMBOLS FOR FORMATION CONTACTS AND STRUCTURAL FEATURES First Revision

Total Published Standards:27 Total Standards Under development:9

Aspect Wise Report

Product : 0
Code of Practices : 19
Methods of Test : 1

Terminology : 6
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 1
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 6065 (Part 1) : 2001	Recommendations for the preparation of geological and geotechnical maps for river valley project Part 1 Scales

Annexure-II :List of Indian Product Standards

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