

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### MED 21 : Diamond Core And Waterwell Drilling

**Scope:** Formulation of standards for surface exploratory drilling rigs and equipment including diamond core drilling/non-core drilling and geotechnical, and water well drilling rigs including their accessories. It also includes codes of practice for drilling and boring operations.

**Liaison:** **TC-82 (P): Mining**

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10208 : 1982 ISO 3551-1 <i>Reviewed In : 2022</i>	Specification for diamond core drilling equipment	January, 2022	2	Indigenous
2	IS 11189 : 2020	Methods of Tubewell Development ( First Revision )	-	-	Indigenous
3	IS 11312 (Part 1) : 1985 <i>Reviewed In : 2022</i>	Specification for external upset drill pipe assemblies for use in water well drilling: Part 1 screwed on joints drill pipe	January, 2022	1	Indigenous
4	IS 11632 : 2020	Code of Practice of Rehabilitation of Tubewells ( First Revision )	-	-	Indigenous
5	IS 11672 : 1986 <i>Reviewed In : 2022</i>	Specification for tungsten carbide buttons and inserts for use in down - The - Hole (DTH) bits	January, 2022	-	Indigenous
6	IS 11710 (Part 1) : 2005 <i>Reviewed In : 2020</i>	Selection and design of diamond core drills - Code of practice: Part 1 mechanical drive (First Revision)	August, 2020	-	Indigenous
7	IS 11710 (Part 2) : 2005 <i>Reviewed In : 2020</i>	Selection and design of diamond core drills - Code of practice: Part 2 top drive hydraulic (First Revision)	August, 2020	-	Indigenous
8	IS 11830 (Part 1) : 1991 <i>Reviewed In : 2022</i>	Waterwell drilling - Down - The - Hole hammer rigs: Part 1 general requirements for hydraulic rigs (With Or Without Rotary Mode) (First Revision)	January, 2022	-	Indigenous
9	IS 11830 (Part 2) : 1989 <i>Reviewed In : 2019</i>	Water - Well drilling - Down - The - Hole hammer rigs: Part 2 general requirements for pneumatic rigs	September, 2019	-	Indigenous
10	IS 12214 : 1987 <i>Reviewed In : 2022</i>	General requirements for rotary hose for water - Well drilling equipment	January, 2022	-	Indigenous
11	IS 12629 : 1989 <i>Reviewed In : 2019</i>	Water well drilling - Rotary hose for rotary drilling - Recommended practice for care and use	September, 2019	-	Indigenous

12	IS 12635 : 2000 Reviewed In : 2020	Water well drilling and blast hole drilling - Rock roller bit with non - Sealed ball and roller bearing arrangement - Technical supply conditions (First Revision)	August, 2020	-	Indigenous
13	IS 12682 : 1989 Reviewed In : 2019	Water well drilling - Percussion drilling rigs - General requirements	September, 2019	-	Indigenous
14	IS 15028 : 2001 Reviewed In : 2022	Hoisting swivel for use with diamond core drilling - Requirements	January, 2022	1	Indigenous
15	IS 15029 : 2001 Reviewed In : 2022	Recovery taps for use with diamond core drilling - Requirements	January, 2022	-	Indigenous
16	IS 15083 : 2001 Reviewed In : 2022	Water swivel for use with diamond core drilling - Requirements	January, 2022	-	Indigenous
17	IS 15145 : 2002 Reviewed In : 2019	Round kelly for direct rotary water well drilling rig - Requirements	May, 2019	-	Indigenous
18	IS 15481 (Part 1) : 2004 ISO 10097-1 Reviewed In : 2021 ISO 10097-1:1999	Wireline diamond core drilling equipment - System A: Part 1 metric units	March, 2021	-	Identical under dual numbering
19	IS/ISO 18758-1 : 2018 IS/ISO 18758-1:2018 IS/ISO 18758-1:2018	Mining and earth-moving machinery Rock drill rigs and rock reinforcement rigs Part 1: Vocabulary Adoption of ISO 18758		-	Identical under single numbering
20	IS/ISO 18758-2 : 2018 IS/ISO 18758-2: 2018 IS/ISO 18758-2: 2018	Mining and earth-moving machinery Rock drill rigs and rock reinforcement rigs Part 2: Safety requirements Adoption of ISO 18758-2:2018		-	Identical under single numbering
21	IS 2800 : 2019 Reviewed In : 2024	Code of practice for construction and testing of tubewells	March, 2024	-	Indigenous
22	IS 4097 : 2019 Reviewed In : 2024	Specification for material (Gravel) for use as filter pack in tubewells (First Revision)	March, 2024	-	Indigenous
23	IS 7156 : 1974 Reviewed In : 2022	General requirements for reverse circulation drilling rigs	January, 2022	1	Indigenous
24	IS 7206 (Part 1) : 1986 Reviewed In : 2022	General requirements for direct circulation rotary drilling rigs: Part 1 with rotary table (First Revision)	January, 2022	1	Indigenous
25	IS 7209 : 1974 ISO 722 Reviewed In : 2022	General requirements for blast hole drilling rigs	January, 2022	-	Indigenous
26	IS 8110 : 2019 Reviewed In : 2024	Water well screens and slotted pipes - Specification (Third Revision)	March, 2024	1	Indigenous
27	IS 8986 : 2022	Hexagonal Integral Drill Steel and Extension Rods and Hollow Round Drill Steel in Bar Form Dimensions Second revision		-	Indigenous
28	IS 9026 : 2004 ISO 1720 Reviewed In : 2020	Rope threaded percussive long - Hole drilling equipments - Specification (First Revision)	August, 2020	-	Indigenous
29	IS 9439 : 2022	Glossary of Terms Used in Water-		-	Indigenous

## Standards under Development

## Projects Approved

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

## Preliminary Draft Standards

SI. No.	Doc No.	Title
1	MED 21 (25863)	LOCATION OPERATION AND MAINTENANCE OF TUBEBORE WELLS - Code of Practice

## Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	MED 21 (21462) Revision of: IS 11830:1991	Water well drilling Part 1 General requirements for hydraulic rigs Down-the-hole hammer or mud rotary drilling

## Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	MED 21 (19130) Revision of: IS 11830:1991	Drilling Rigs With Rotary Table Specification
2	MED 21 (19131) Revision of: IS 11830:1991	External Upset Drill Pipe Assemblies For Use In Water Well Drilling Specification Part 1 Screwed On Joints Drill Pipe
3	MED 21 (21463) Revision of: IS 11830:1991	Classification and selection of drilling rigs for water well drilling
4	MED 21 (22232) Revision of: IS 11830:1991	Tungsten Carbide Buttons and Inserts for Use in Down-The-Hole DTH Bits Specification
5	MED 21 (22768) Revision of: IS 11830:1991	Water well drilling Specification Part 2 General requirements for pneumatic rigs Down-the-hole hammer or mud rotary drilling
6	MED 21 (25065) Revision of: IS 11830:1991	CONSTRUCTION AND TESTING OF TUBEWELLS CODE OF PRACTICE

## Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	MED 21 (19255) Revision of: IS 10208:1982	Diamond core drilling equipment Specification First Revision

## Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MED 21 (18992) Revision of: IS 15028:2001	Hoisting swivel for use with diamond core drilling Specification
2	MED 21 (18993) Revision of: IS 15029:2001	Recovery taps for use with diamond core drilling Specification
3	MED 21 (19184) Revision of: IS 15481:2004	Wireline Diamond Core Drilling Equipment System A Part 1 Metric Units
4	MED 21 (22231) Revision of: IS 7156:1974	General requirements for reverse circulation drilling rigs - first revision
5	MED 21 (22767) Revision of: IS 11830:1991	Water well drilling Specification Part 1 General requirements for hydraulic rigs Down-the-hole hammer or mud rotary drilling
6	MED 21 (25062) Revision	WATER WELL DRILLING PERCUSSION DRILLING RIGS GENERAL REQUIREMENTS

	of: IS 12682:1989	
7	MED 21 (25063) Revision of: IS 11710:2005	SELECTION OF DIAMOND CORE DRILLS CODE OF PRACTICE PART 1 MECHANICAL DRIVE Second Revision of IS 11710 Part 1
8	MED 21 (25064) Revision of: IS 11710:2005	SELECTION OF DIAMOND CORE DRILLS CODE OF PRACTICE PART 1 MECHANICAL DRIVE Second Revision of IS 11710 Part 2

**Total Published Standards:29 Total Standards Under development:17**

### Aspect Wise Report

Product : 17  
Code of Practices : 6  
Methods of Test : 0  
Terminology : 3  
Dimensions : 1  
System Standard : 0  
Safety Standard : 1  
Others : 1  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

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

SI. No.	IS No. & Year	Title
1	IS 11180 : 1985 Reviewed In : 2017	Specification for Kellys for direct rotary drilling Part 1 square and hexagonal Kellys
2	IS 12090 : 1987 Reviewed In : 2022	Dimensions of rotary tables for direct rotary drilling equipment
3	IS 12097 : 1994 Reviewed In : 2019	Classification and selection of Drilling rigs for water well drilling First Revision
4	IS 12194 : 1987	Dimensions for Rock Roller Bits and Blade Drag Bits for Rock Drilling Equipment
5	IS 2800 (Part 1) : 1991 Reviewed In : 2017	Code of Practice for Construction and Testing of Tubewells Borewells - Part 1 Construction
6	IS 2800 (Part 2) : 1979 Reviewed In : 2014	Code of Practice Construction and Testing - Part II Testing

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

SI. No.	IS No. & Year	Title
1	IS 10208 : 1982 ISO 3551-1 Reviewed In : 2022	Specification for diamond core drilling equipment
2	IS 11312 (Part 1) : 1985 Reviewed In : 2022	Specification for external upset drill pipe assemblies for use in water well drilling Part 1 screwed on joints drill pipe
3	IS 11672 : 1986 Reviewed In : 2022	Specification for tungsten carbide buttons and inserts for use in down - The - Hole DTH bits
4	IS 11830 (Part 1) : 1991 Reviewed In : 2022	Waterwell drilling - Down - The - Hole hammer rigs Part 1 general requirements for hydraulic rigs With Or Without Rotary Mode First Revision
5	IS 11830 (Part 2) : 1989 Reviewed In : 2019	Water - Well drilling - Down - The - Hole hammer rigs Part 2 general requirements for pneumatic rigs
6	IS 12214 : 1987 Reviewed In : 2022	General requirements for rotary hose for water - Well drilling equipment
7	IS 12682 : 1989 Reviewed In : 2019	Water well drilling - Percussion drilling rigs - General requirements
8	IS 15028 : 2001 Reviewed In : 2022	Hoisting swivel for use with diamond core drilling - Requirements
		Recovery taps for use with diamond core drilling - Requirements

9	IS 15029 : 2001 Reviewed In : 2022	
10	IS 15083 : 2001 Reviewed In : 2022	Water swivel for use with diamond core drilling - Requirements
11	IS 15145 : 2002 Reviewed In : 2019	Round kelly for direct rotary water well drilling rig - Requirements
12	IS 4097 : 2019 Reviewed In : 2024	Specification for material Gravel for use as filter pack in tubewells First Revision
13	IS 7156 : 1974 Reviewed In : 2022	General requirements for reverse circulation drilling rigs
14	IS 7206 (Part 1) : 1986 Reviewed In : 2022	General requirements for direct circulation rotary drilling rigs Part 1 with rotary table First Revision
15	IS 7209 : 1974 ISO 722 Reviewed In : 2022	General requirements for blast hole drilling rigs
16	IS 8110 : 2019 Reviewed In : 2024	Water well screens and slotted pipes - Specification Third Revision
17	IS 9026 : 2004 ISO 1720 Reviewed In : 2020	Rope threaded percussive long - Hole drilling equipments - Specification First Revision