BUREAU OF INDIAN STANDARDS

Program of Work

MED 8 : Mining Techniques And Equipment

Scope: Formulation of Indian Standards relating to basic mining techniques and equipment.

Liaison: ISO TC-82 (P): Mining

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10046 : 2024	DOG SPIKES FOR MINE		-	Indigenous
		HAULAGE TRACKS -			
		SPECIFICATION (first revision)			
2	IS 10046 : 1981	Specification for dog spikes for	November, 2018	-	Indigenous
	Reviewed In: 2018	mine haulage tracks			
3	IS 10202 : 1982	Specification for scrapers used in	November, 2018	-	Indigenous
	Reviewed In: 2018	mines			
4	IS 10970 : 1984	Specification for keps for mine	September, 2020	-	Indigenous
	Reviewed In: 2020	cages			
5	IS 11311 : 2011	Technical requirements for loaders	September, 2020	-	Indigenous
	Reviewed In: 2020	for use in underground mines (First			
		Revision)			
6	IS 11862 : 2021	HYDRAULIC LOADCELL -		-	Indigenous
		SPECIFICATION First Revision			
7	, , ,	Steel Headframes for Mines Part 1		-	Indigenous
	2024	Principles of Load Computation			
		and Applicable Factors of Safety (
		First Revision)			
8		Steel headframes for mines: Part 1	November, 2018	-	Indigenous
	1988	principles of load computation and			
	Reviewed In: 2018	applicable factors of safety			
9	IS 12464 : 2024	Roof Bars Used in Mines â€"		-	Indigenous
		Methods of Test (First Revision)			
10	IS 12488 : 2023	HAULAGE ROPE CAPPELS		-	Indigenous
		SPECIFICATION (First Revision			
		of IS 12488)			
11	IS 12489 : 2023	RECOMMENDATIONS FOR		-	Indigenous
		FITTING TERMINAL WIRE			
		ROPE SOCKETS BY CONE			
		AND TAIL METHOD			
12	IS 12526 : 2023	Bucket for Shaft Sinking		-	Indigenous
		Operations in Mines �			
		Specification (First Revision)			
13	IS 12527 : 1988	General requirements for riders for	November, 2018	-	Indigenous
	Reviewed In: 2018	buckets used in shaft sinking			
		opeiRations in mines			
14	IS 13202 : 2012	Mine haulage tracks - Code of	February, 2022	-	Indigenous
	Reviewed In: 2022	practice (First Revision)			
15	IS 13219 : 1992	Rock bolts for mines (Cement	November, 2018	-	Indigenous
15	IS 13219 : 1992	Rock bolts for mines (Cement	November, 2018	-	Indig

1	Reviewed In: 2018	Grouted) - General requirements		1 1	
16	IS 13230 : 1992 Reviewed In : 2018	Graphical symbols for use on mine plans	November, 2018	-	Indigenous
17	IS 13282 : 2024	MINE HAULAGE TRACKS		-	Indigenous
		TRACK SLEEPERS GENERAL			6
		REQUIREMENTS First Revision			
10	IC 12202 - 1001	of IS 13282	Santamban 2020	1	In diagnoses
18	IS 13282 : 1991 Reviewed In : 2020	Mine haulage tracks - Track sleepers - General requirements	September, 2020	-	Indigenous
19	IS 13517 : 1992	Rock bolts - Resin type -	November, 2018	_	Indigenous
	Reviewed In: 2018	Specification	- 10 10 10 10 10 10 10 10 10 10 10 10 10		
20	IS 13618 : 1993	Minehaulages - Directrope (50 To	November, 2018	-	Indigenous
	Reviewed In: 2018	150 KW) - General requirements			
21	IS 14352 : 1996	Miners Safety Goggles	February, 2022	-	Indigenous
22	Reviewed In: 2022 IS 14480: 2006	Side - Discharge loaders for	February, 2022	_	Indigenous
	Reviewed In : 2022	underground coal mines - Safety	1 cordary, 2022		margenous
		requirements, operation and			
		maintenance - Code of practice			
<u> </u>	70.11	(First Revision)		<u> </u>	
23	IS 14567 : 2024	Winding in Mines â€" Design of		-	Indigenous
		Cages â€" Guidelines (First Revision)			
24	IS 14778 : 2000	Ortable methanometer	September, 2020	-	Indigenous
	Reviewed In: 2020	(Interferometer Type) -			6.
		Specification			
25	IS 15838 (Part 110):	Mining - Glossary of terms (November, 2023	-	Indigenous
	2008 Reviewed In : 2023	Amalgamating of IS 4791 : 1968,			
	Reviewed in : 2023	IS 4792 : 1968, IS 4863 :1968, IS 5028 1 1969, IS 5307 : 1968, IS			
		5767 : 1970, IS 5768 : 1970, IS			
		5814 : 1970, IS 5940 : 1979 AND			
		IS 7580 : 1975)			
26	IS 16511 : 2017	Management systems for Eco -	September, 2022	-	Indigenous
	Reviewed In: 2022	Friendly Non - Coal mining operations - Requirements			
27	IS 17241 : 2019	Man Riding Car by Rope Haulage	August, 2024	_	Indigenous
		System for Transportation of		maigenous	
	Reviewed In: 2024	Persons in Mines			
28	IS 17242 : 2019	Man Riding Chair Lift System for	August, 2024	- T	Indigenous
	Davious d In : 2004	Transportation of Persons in Mines			
29	Reviewed In: 2024 IS 17678: 2021	SHORT ENCAPSULATION		 _ 	Indigenous
	15 17070 . 2021	PULL TEST SEPT PROCEDURE			margonous
30	IS 4001 : 2017	Mine tubs - specification (Third	September, 2022	-	Indigenous
		Revision)			
21	Reviewed In : 2022	Charification for turnestar and 1	Contombon 2020		Indiana
31	IS 4005 : 1967 Reviewed In : 2020	Specification for tungsten carbide for mining tools	September, 2020	-	Indigenous
32	IS 5114 : 1969	Specification for reflectorized	September, 2020	+ - +	Indigenous
L	Reviewed In: 2020	signs for mines		<u> </u>	
33	IS 7577 : 2020	Gas Testing Flame Safety Lamps	August, 2024	-	Indigenous
		— Specification (Second Revision			
24	Reviewed In : 2024	Cogo Suprancian Coon for Winding	August 2024	1	Indiana
34	IS 7587 (Part 1): 2020	Cage Suspension Gear for Winding in Mines Part 1 General	August, 2024	· 1	Indigenous
	2020	Requirements (Second Revision)			
	Reviewed In: 2024			<u> </u>	
35	IS 7587 (Part 2):	Cage suspension gear for winding	February, 2022	1	Indigenous
	I	ı		1	

I	2006	in mines - Specification: Part 2		1	I
	Reviewed In: 2022	cappels (First Revision)			
36	IS 7587 (Part 3):	Cage suspension gear for winding	February, 2022	1	Indigenous
	2006	in mines - Specification: Part 3			
	Reviewed In: 2022	shackles and pins (First Revision)			
37	IS 7587 (Part 4):	Cage suspension gear for winding	February, 2022	-	Indigenous
	2006	in mines - Specification: Part 4			
20	Reviewed In: 2022	bridle chains (First Revision)	F.1 2022	1	Y 11
38	IS 7587 (Part 5):	Cage suspension gear for winding	February, 2022	2	Indigenous
	2006 Reviewed In : 2022	in mines - Specification: Part 5 distribution plates (First Revision)			
39	IS 7587 (Part 6):	Cage suspension gear for winding	February, 2022		Indigenous
	2006	in mines - Specification: Part 6	1 Columny, 2022		margenous
	Reviewed In: 2022	safety detaching hooks (4 Plates			
		Type) 80 and 100 kN capacity			
		(First Revision)			
40	IS 7587 (Part 7):	Cage suspension gear for winding	September, 2022	-	Indigenous
	2017	in mines - Specification: Part 7			
		safety detaching hook (4 Plate			
	Reviewed In: 2022	Type) 120, 150 and 200 kN			
11	IC 7507 (Dart 9)	capacity (First Revision)	November 2010	+	Indianassa
41	IS 7587 (Part 8) : 1993	Winding in mines - Suspension gear: Part 8 clivey hook suspension	November, 2018	-	Indigenous
	Reviewed In: 2018	arrangements			
42	IS 7974 (Part 1):	Graphical symbols for use on	May, 2023	_	Identical under dual
'-	1976	detailed maps, plans and geological	1114), 2023		numbering
	ISO 710-1	cross sections: Part 1 general rules			
	Reviewed In: 2023	of representation			
	ISO 710-1:1974	-			
43	IS 7974 (Part 2):	Graphical symbols for use on	May, 2023	-	Identical under dual
	1977	detailed maps, plans and geological			numbering
	ISO 710-2	cross sections: Part 2			
	Reviewed In : 2023	representation of sedimentary			
44	ISO 710-2:1974	rocks Graphical symbols for use on	May, 2023		Identical under dual
44	IS 7974 (Part 3): 1976	detailed maps, plans and geological	May, 2025	-	numbering
	ISO 710-3	cross sections: Part 3			numbering
	Reviewed In: 2023	Representation of magnetic rocks			
	ISO 710-3:1974				
45	IS 8003 : 2008	Wheel axle assemblies for mine	November, 2023	-	Indigenous
	Reviewed In: 2023	cars - Specification (First			
		Revision)			
46	IS 8066 : 1976	Specification for mine cars	September, 2020	1	Indigenous
45	Reviewed In: 2020		NT 1 2010	-	T 10
47	IS 8166: 1988	Specification for rotary drill bits	November, 2018	-	Indigenous
	Reviewed In: 2018	for drilling principally in coal (First Revision)			
48	IS 8166 : 2024	Revision) Rotary Drill Bits for Drilling		 -	Indigenous
"	15 0100 . 2024	Principally in Coal - Specification		_	margenous
49	IS 8421 : 1977	Specification for hydraulic props	September, 2020	-	Indigenous
	Reviewed In: 2020	, , , , , , , , , , , , , , , , , , ,	1 ,		- G
50	IS 8473 : 1988	Specification for roof bars used in	November, 2018	-	Indigenous
	Reviewed In: 2018	mines			
51	IS 8534 (Part 1):	Mine Tub Couplings and Drawbars		-	Indigenous
	2024	for Use in Mines (Fourth Revision)			
50	IC 0524 2017	Mina tale appelluses at 1.1.	Cambo 1 2001		T _m 11
52	IS 8534 : 2017	Mine tub couplings and drawbars for use in mines: Part 1	September, 2021	-	Indigenous
	Reviewed In: 2021	specification			
<u> </u>	Reviewed III . 2021	specification		+	

53	IS 9011 : 1978	Specification for skip suspension	September, 2020	1 1	Indigenous
	Reviewed In: 2020	gear for winding in mines	50p.000001, 2020		mangeneus
54	IS 9123 : 1979	Specification for battery locom -	September, 2020	_	Indigenous
	Reviewed In: 2020	Otives for use in mines	September, 2020		margenous
55	IS 9170 (Part 1):	Endless haulage rope clips -	September, 2020	_	Indigenous
33	2005	Specification: Part 1 general	September, 2020		margenous
	Reviewed In: 2020	requirements (First Revision)			
56	IS 9170 (Part 2):	Endless haulage rope clips -	September, 2020	_	Indigenous
50	2005	Specification: Part 2 screw clip,	September, 2020		margenous
	Reviewed In: 2020	cam clip, smallman clip and wedge			
	Reviewed III . 2020	cain chp, smainnan chp and wedge			
57	IS 9170 (Part 3):	Endless haulage rope clips -	September, 2020	_	Indigenous
37	2005	Specification: Part 3 lashing chain	September, 2020		margenous
	Reviewed In: 2020	Specification, 1 art 3 lashing chain			
58	IS 9171 : 2024	Maintenance and Use of Friction			Indigenous
36	13 91/1 . 2024	and Hydraulic Props and Link Bars		-	margenous
		- Code of Practice (First Revision			
		- Code of Flactice (Flist Revision			
59	IS 9171 : 1979	Code of proceeding for maintanenes	Cantambar 2020		Indiannous
39		Code of practice for maintenance	September, 2020	-	Indigenous
	Reviewed In: 2020	and use of friction and hydraulic			
60	IC 0102 - 2024	props and link bars			To diameno
60	IS 9192 : 2024	FLAMEPROOF HAND-HELD		-	Indigenous
		ROTARY ELECTRIC DRILLING			
		MACHINE FOR USE IN MINES			
<i>C</i> 1	IC 0102 1070	SPECIFICATION SPECIFICATION	G . 1 2020		T 1'
61	IS 9192 : 1979	Specification for flameproof hand	September, 2020	-	Indigenous
	Reviewed In: 2020	- Held rotary electric drilling			
- (2	IC 0202 (D + 1)	machine for use in mines			T 1'
62	IS 9203 (Part 1):	FRICTION ROLLERS FOR		-	Indigenous
	2023	MINE HAULAGE TRACKS			
		SPECIFICATION PART 1			
		TECHNICAL SUPPLY			
		CONDITIONS First Revision of IS			
62	IC 0202 (D + 2)	9203 Part 1			T 1'
63	IS 9203 (Part 2):	FRICTION ROLLERS FOR		-	Indigenous
	2023	MINE HAULAGE TRACKS			
		SPECIFICATION PART 2			
		PARALLEL ROLLERS First			
61	IC 0202 (Dai: 4.2)	Revision of IS 9203 Part 2			In diameter
64	IS 9203 (Part 3):	FRICTION ROLLERS FOR		-	Indigenous
	2023	MINE HAULAGE TRACKS			
		SPECIFICATION PART 3			
		TAPERED AND VERTICAL			
		ROLLERS AND HORIZONTAL			
		AND VERTICAL PULLEYS [
	IC 0000 (D) 10	First Revision of IS 9203 (Part 3)]			Υ 1'
65	IS 9203 (Part 4):	FRICTION ROLLERS FOR		-	Indigenous
	2023	MINE HAULAGE TRACKS			
		SPECIFICATION PART 4			
		ROLLERS WITH NON-			
		METALLIC ROPE BEARING			
		SURFACES First Revision of IS			
	YG 0647 6555	9203 Part 4		-	· ··
66	IS 9227 : 2023	FRICTION ROLLER		-	Indigenous
		MOUNTINGS FOR MINE			
		HAULAGE TRACKS			
				-	
		SPECIFICATION First Revision			
67	IS 9239 : 1999	SPECIFICATION First Revision of IS 9227 Winding in mines - Sheaves - Cast	September, 2020	1	Indigenous

L		Reviewed In: 2020	- Specification (First Revision)			
Г	68	IS 9494 : 2023	Man � Riding Cars used in		=	Indigenous
ı			Mines � Specification (First			
			Revision)			
Γ	69	IS 9910 : 1981	Method for braze strength testing	September, 2020	-	Indigenous
	Reviewed In: 2020 of coal and rock cutting tools with					
			laid - On tungsten - Carbide tips			
Γ	70	IS 9999 : 1981	Specification for diesel	November, 2018	1	Indigenous
1		Reviewed In: 2018	locomotives for use in mines			

Standards under Development

		Projects Approved	
SI. No.	Doc No.	Title	
No Records Found			

		Preliminary Draft Standards			
SI. No.	SI. No. Doc No. Title				
No Records Found					

		Drafts Standards in WC Stage	
SI. No.	SI. No. Doc No. Title		
No Records Found			

		Draft Standards Completed WC Stage
SI. No.	Doc No.	Title
1	MED 8 (22862)	TUNGSTEN CARBIDE FOR MINING TOOLS - SPECIFICATION

	Finalized Draft Indian Standard				
SI. No.	Doc No.	Title			
1	MED 8 (22869) Revision	Specification and Safety Requirements for Diesel Locomotives used in Mines			
	of: IS 9999:1981				

	Finalized Draft Indian Standards under Print				
SI. No.	Doc No.	Title			
1	MED 8 (19661) Revision	Winding In Mines Sheaves Cast Specification Second Revision			
	of: IS 9239:1999				
2	MED 8 (20453) Revision	Mine Cars Specification First Revision			
	of: IS 8066:1976				
3	MED 8 (20457) Revision	Method for Braze Strength Testing of Coal and Rock Cutting Tools With Laid-On Tungsten-			
	of: IS 9910:1981	Carbide Tips First Revision			
4	MED 8 (20463) Revision	Miner s Safety Goggles Specification First Revision			
	of: IS 14352:1996				
5	MED 8 (20644) Revision	ROOF BARS USED IN MINES SPECIFICATION			
	of: IS 8473:1988				
6	MED 8 (21522) Revision	SCRAPERS USED IN MINES SPECIFICATION			
	of: IS 10202:1982				
7	MED 8 (21737) Revision	Hydraulic Props Specification			
	of: IS 8421:1977				

Total Published Standards:63 Total Standards Under development:9

Aspect Wise Report

Product: 46
Code of Practices: 5
Methods of Test: 4
Terminology: 5
Dimensions: 0
System Standard: 2
Safety Standard: 0
Others: 0

Service Specification: 0 Process Specification: 1 Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 11922 : 1986	Portable Mine Hoist
2	IS 13163 : 1991	Mine haulage tracks - Laying - Code of practice
	Reviewed In: 2010	
3	IS 13201 : 1991	Mine Haulage Tracks - Rails and Fish Plates - General Requirements
	Reviewed In: 2010	
4	IS 13210 : 1991	Mine haulage tracks - Switches and crossings - General requirements
	Reviewed In: 2010	
5	IS 13220 : 1991	Friction Props - Hydraulic Setting Device - General Requirements
6	IS 3819 : 1967	Solid Forged Coal Cutting Picks
	Reviewed In: 1995	
7	IS 3820 : 1982	Carbide Tipped Coal Cutting Tools
·		- Free come annual contraction
8	IS 3869 (Part 1): 1966	Shortwall coal cutting machine Part 1 General requirement for skid mounted shortwall coal cutting
	Reviewed In: 1995	machines
9	IS 3869 (Part 2): 1966	Shortwall coal cutting machine Part 2 Recommendations on selection of the basic parameters of
	Reviewed In: 1995	the cutting system and the calculation of power consumption
10	IS 3970 : 1967	Safety Detaching Hooks Used In Mines
		and the second s
11	IS 4791 : 1968	Specification for metal paper trays First Revision
12	IS 4792 : 1968	Guide for heat insulation of non - Industrial buildings
12	10.4062 1060	
13	IS 4863 : 1968	Glossary of mining terms drilling and blasting
14	IS 5028 : 1969	Glossary Of Mining Terms planning And Surveying
1.	15 5020 . 1505	Grossary or riming rorms planning rina sarveying
15	IS 5307 : 1969	Glossary of mining terms boring and exploration
16	IS 5767 : 1970	Glossary of mining terms strata control
17	IS 5768 : 1970	Glossary of Mining Terms Winning and Working
1.0	YG 5554 4004	
18	IS 5771 : 1981	Coal Cutting Tools Point Attack Tungsten Carbide Tipped
19	IS 5814 : 1970	Glossary Of Mining Terms shaft And Associated Equipment
20	IS 5940 : 1970	Glossary Of Mining Terms geology
21	IS 7578 : 1975	Wedge and Slot type Roof Bolt

22	IS 7580 : 1975	Glossary Of Mining Terms transport		
23	IS 7586 : 1975	Friction Props for Mines		
	Reviewed In: 2004			
24	IS 8266 : 1976	Expansion Shell Type Roof Bolts		
25	IS 8534 (Part 2): 1995	Mine tub couplings and drawbars Part 2 C - Link and D - Shackle type First Revision		
	Reviewed In: 2020			
26	IS 8534 (Part 3): 1995	Mine tub couplings and drawbars Part 3 R - Shackle and link type First Revision		
	Reviewed In: 2020			
27	IS 8534 (Part 4): 1995	Mine tub couplings and drawbars Part 4 F - Shackle and link type First Revision		
	Reviewed In: 2020			
28	IS 8534 (Part 5) : 2005	Mine tub couplings and drawbars Part 5 drawbars First Revision		
	Reviewed In: 2020			
29	IS 8534 (Part 6): 1995	Mine tub couplings and drawbars Part 6 hook and D - Shackle type		
	Reviewed In: 2020			

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title			
1	IS 10046 : 2024	DOG SPIKES FOR MINE HAULAGE TRACKS - SPECIFICATION first revision			
2	IS 10202 : 1982	Specification for scrapers used in mines			
	Reviewed In: 2018				
3	IS 10970 : 1984	Specification for keps for mine cages			
	Reviewed In: 2020				
4	IS 11311 : 2011	Technical requirements for loaders for use in underground mines First Revision			
	Reviewed In: 2020				
5	IS 11862 : 2021	HYDRAULIC LOADCELL - SPECIFICATION First Revision			
	ISO 21387:2020				
6	IS 12488 : 2023	HAULAGE ROPE CAPPELS SPECIFICATION First Revision of IS 12488			
7	IS 12526 : 2023	Bucket for Shaft Sinking Operations in Mines Specification First Revision			
8	IS 12527 : 1988	General requirements for riders for buckets used in shaft sinking opeiRations in mines			
	Reviewed In: 2018				
9	IS 13219 : 1992	Rock bolts for mines Cement Grouted - General requirements			
	Reviewed In: 2018				
10	IS 13282 : 2024	MINE HAULAGE TRACKS TRACK SLEEPERS GENERAL REQUIREMENTS First Revision			
		of IS 13282			
11	IS 13517 : 1992	Rock bolts - Resin type - Specification			
	Reviewed In: 2018				
12	IS 13618 : 1993	Minehaulages - Directrope 50 To 150 KW - General requirements			
	Reviewed In: 2018				
13	IS 14352 : 1996	Miners Safety Goggles			
	Reviewed In: 2022				
14	IS 14778 : 2000	Ortable methanometer Interferometer Type - Specification			
	Reviewed In: 2020				
15	IS 17241 : 2019	Man Riding Car by Rope Haulage System for Transportation of Persons in Mines			
	Reviewed In: 2024				
16	IS 17242 : 2019	Man Riding Chair Lift System for Transportation of Persons in Mines			
	Reviewed In: 2024				
17	IS 4001 : 2017	Mine tubs - specification Third Revision			
	Reviewed In: 2022				
18	IS 4005 : 1967	Specification for tungsten carbide for mining tools			
	Reviewed In: 2020				

	1	
19	IS 7587 (Part 1): 2020	Cage Suspension Gear for Winding in Mines Part 1 General Requirements Second Revision
	Reviewed In: 2024	
20	IS 7587 (Part 2): 2006	Cage suspension gear for winding in mines - Specification Part 2 cappels First Revision
	Reviewed In: 2022	
21	IS 7587 (Part 3) : 2006	Cage suspension gear for winding in mines - Specification Part 3 shackles and pins First Revision
	Reviewed In: 2022	
22	IS 7587 (Part 4): 2006	Cage suspension gear for winding in mines - Specification Part 4 bridle chains First Revision
	Reviewed In: 2022	
23	IS 7587 (Part 5): 2006	Cage suspension gear for winding in mines - Specification Part 5 distribution plates First Revision
	Reviewed In: 2022	
24	IS 7587 (Part 6): 2006	Cage suspension gear for winding in mines - Specification Part 6 safety detaching hooks 4 Plates
	Reviewed In: 2022	Type 80 and 100 kN capacity First Revision
25	IS 7587 (Part 7): 2017	Cage suspension gear for winding in mines - Specification Part 7 safety detaching hook 4 Plate
		Type 120 150 and 200 kN capacity First Revision
	Reviewed In: 2022	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
26	IS 7587 (Part 8) : 1993	Winding in mines - Suspension gear Part 8 clivey hook suspension arrangements
	Reviewed In: 2018	winding in mines suspension gent i are o envey nook suspension arrangements
27	IS 8003 : 2008	Wheel axle assemblies for mine cars - Specification First Revision
	Reviewed In : 2023	There are assembles for time cars openiteation rust revision
28	IS 8066 : 1976	Specification for mine cars
20	Reviewed In : 2020	Specification for finite cars
29	IS 8166 : 2024	Rotary Drill Bits for Drilling Principally in Coal - Specification
49	15 0100 . 2024	Rotary Drin Dits for Drining Frincipally in Coal - Specification
30	IS 8421 : 1977	Specification for hydraulic props
30	I	Specification for hydraunic props
21	Reviewed In : 2020	
31	IS 8473 : 1988	Specification for roof bars used in mines
22	Reviewed In : 2018	
32	IS 8534 (Part 1): 2024	Mine Tub Couplings and Drawbars for Use in Mines Fourth Revision
	XG 0044 4050	
33	IS 9011 : 1978	Specification for skip suspension gear for winding in mines
	Reviewed In: 2020	
34	IS 9123 : 1979	Specification for battery locom - Otives for use in mines
	Reviewed In: 2020	
35	IS 9170 (Part 1): 2005	Endless haulage rope clips - Specification Part 1 general requirements First Revision
	Reviewed In: 2020	
36	IS 9170 (Part 2): 2005	Endless haulage rope clips - Specification Part 2 screw clip cam clip smallman clip and wedge clip
	Reviewed In: 2020	
37	IS 9170 (Part 3): 2005	Endless haulage rope clips - Specification Part 3 lashing chain
	Reviewed In: 2020	
38	IS 9192 : 2024	FLAMEPROOF HAND-HELD ROTARY ELECTRIC DRILLING MACHINE FOR USE IN
		MINES SPECIFICATION
39	IS 9203 (Part 1): 2023	FRICTION ROLLERS FOR MINE HAULAGE TRACKS SPECIFICATION PART 1
		TECHNICAL SUPPLY CONDITIONS First Revision of IS 9203 Part 1
40	IS 9203 (Part 2): 2023	FRICTION ROLLERS FOR MINE HAULAGE TRACKS SPECIFICATION PART 2
	<u> </u>	PARALLEL ROLLERS First Revision of IS 9203 Part 2
41	IS 9203 (Part 3): 2023	FRICTION ROLLERS FOR MINE HAULAGE TRACKS SPECIFICATION PART 3
		TAPERED AND VERTICAL ROLLERS AND HORIZONTAL AND VERTICAL PULLEYS
		First Revision of IS 9203 Part 3
42	IS 9203 (Part 4): 2023	FRICTION ROLLERS FOR MINE HAULAGE TRACKS SPECIFICATION PART 4
		ROLLERS WITH NON-METALLIC ROPE BEARING SURFACES First Revision of IS 9203
		Part 4
43	IS 9227 : 2023	FRICTION ROLLER MOUNTINGS FOR MINE HAULAGE TRACKS SPECIFICATION First
	12,722,.2023	Revision of IS 9227
44	IS 9239 : 1999	Winding in mines - Sheaves - Cast - Specification First Revision
	Reviewed In : 2020	Through himes shoures cast specification institution
45	IS 9494 : 2023	Man Riding Cars used in Mines Specification First Revision
7	10 7777 . 2023	Man Riding Cars used in Mines Specification I list Revision
46	IS 9999 : 1981	Specification for diesel locomotives for use in mines
"	15 7777 . 1701	Specification for dieser locomotives for use in ninies

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Reviewed	In	· 20	118