## **BUREAU OF INDIAN STANDARDS**

## **Program of Work**

## **MED 10: Wire Ropes And Wire Products**

Scope: a) Formulation of standards on wire ropes and standards for strands for different purposes;

wire products, wire ropes and fittings. b) Co-ordination of work with ISO/TC 82 Mining and

ISO/TC 105 Wire ropes.

Liaison: TC-105 (O): Steel wire ropes

## **Published Standards**

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10887 : 2001	Steel wire ropes for winches and	February, 2022	-	Indigenous
	Reviewed In: 2022	ropeways used in forestry and			
		agriculture - Specification (First			
		Revision)			
2	IS 10891 (Part 1):	Steel wire ropes for aerial	February, 2022	-	Indigenous
	2001	ropeways - Specification: Part 1			
	Reviewed In: 2022	haulage ropes (First Revision)			
3	IS 10891 (Part 2):	Specification for steel wire ropes	March, 2023	-	Indigenous
	2018	for aerial ropeways: Part 2 track			
		ropes			
	Reviewed In: 2023				
4	IS 10942 : 2000	Ferrule - Specification (First	February, 2021	1	Indigenous
	Reviewed In: 2021	Revision)			
5	IS 12735 : 1994	Wire rope slings - Safety criteria	June, 2022	-	Not Equivalent
	ISO 8792	and inspection procedures for use			
	Reviewed In: 2022	(First Revision)			
	ISO 8792:1986				
6	IS 12776 : 2002	Galvanized strand for earthing -	February, 2022	3	Indigenous
	Reviewed In: 2022	Specification (First Revision)			
7	IS 13902 (Part 1):	SOCKETS FOR WIRE ROPES		-	Indigenous
	2022	FOR GENERAL PURPOSES			
		PART 1 GENERAL			
		CHARACTERISTICS AND			
		CONDITIONS OF			
		ACCEPTANCE First Revision			
8	IS 13902 (Part 2):	SOCKETS FOR WIRE ROPES		-	Indigenous
	2022	FOR GENERAL PURPOSES			
		PART 2 SPECIAL			
		REQUIREMENTS FOR			
		SOCKETS PRODUCED BY			
		FORGING OR MACHINED			
		FROM THE SOLID First			
	×0.1001=	Revision			
9	IS 13917 : 2003	Stranded wire ropes for mine	March, 2019	2	Not Equivalent
	ISO 3154	hoisting - Technical delivery			
	Reviewed In: 2019	requirements (First Revision)			
	Reaffirmed but not				

	taken up for revision				
	ISO 3154:1988				
10	IS 16013 : 2018	Welded wire gabions (Metallic -	May, 2023	-	Indigenous
		Coated Or Metallic - Coated With			
	Reviewed In: 2023	PVC Coating) - Specification (First			
		Revision)			
11	IS 16014 : 2018	Mechanically woven, double -	December, 2023	-	Indigenous
		Twisted, hexagonal wire mesh	,		
	Reviewed In: 2023	gabions, revet mattresses, rock fall			
	10010000111.2023	netting and other products for civil			
		engineering purposes (Galvanized			
		Steel Wire Or Galvanized Steel			
		Wire With Polymer Coating) -			
		,			
10	10/100 17745 2016	Specification (First Revision)			T1 (1 1 1 1 1
12	IS/ISO 17745 : 2016	Ę		-	Identical under single
	ISO 17745 : 2016	Definitions and Specifications			numbering
	ISO 17745				
13	IS/ISO 17746 : 2016	Ę		-	Identical under single
	ISO 17746 : 2016	Definitions and Specifications		1	numbering
	ISO 17746			1	
14	IS 18532 : 2024	ROUND STEEL WIRE ROPE		-	Indigenous
		USED AS BALANCE ROPES IN		1	
<u> </u>		MINES SPECIFICATION			
15	IS 1855 : 2022	Stranded steel wire ropes for		-	Indigenous
		winding and man - Riding haulages		1	
		in mines - Specification Third			
		Revision			
16	IS 1856 : 2021	Steel wire ropes for haulage		-	Indigenous
		purposes - Specification Fourth			
		Revision			
17	IS 18281 : 2023	Electromagnetic Examination of		_	Indigenous
1	10 10201 12025	Ferromagnetic Steel Wire Rope			inaigene us
		Used in Mines — Code of Practice			
18	IS 2140 : 2022	SPECIFICATION FOR		_	Indigenous
10	15 2140 . 2022	STRANDED GALVANIZED		_	margenous
		STEEL WIRE FOR FENCING (			
10	IC 2141 - 2000	Second Revision of IS 2140)	Eah 2001	1	To diame
19	IS 2141 : 2000	Hot dip galvanized stay strand -	February, 2021	1	Indigenous
20	Reviewed In: 2021	Specification (Fourth Revision)	G . 1 2020	1	* "
20	IS 2265 : 2009	Specification for galvanized steel	September, 2020	-	Indigenous
	Reviewed In: 2020	wire strand for signaling purposes		1	
		(First Revision)		1	
21	IS 2266 : 2019	Steel wire ropes for general	March, 2024	2	Indigenous
		engineering purpose - Specification		1	
	Reviewed In: 2024	(Fifth Revision)			
22	IS 2315 : 2023	SPECIFICATION FOR		-	Indigenous
		THIMBLES FOR WIRE ROPES		1	
		Second Revision of IS 2315		1	
23	IS 2361 : 2002	Bulldog grips - Specification	February, 2022	-	Indigenous
	Reviewed In: 2022	(Third Revision)	<b>3</b> / -	1	
24	IS 2363 : 2022	GLOSSARY OF TERMS		-	Indigenous
- '		RELATING TO WIRE ROPES		1	111015411040
		Second Revision		1	
25	IS 2365 : 2018	Steel wire suspension ropes for	December, 2023	1	Indigenous
23	15 2303 . 2010	lifts, elevators and hoists -	December, 2023	'	murgenous
	Daviarrad In 1 2022			1	
26	Reviewed In : 2023	Specification (Second Revision)		+	Identical d1
26	IS/ISO 2408 : 2017	Steel wire ropes Requirements		· -	Identical under single
	2408			1	numbering
<u> </u>	2408			1	
•	•	•		•	•

l 27	l xg 2405 2022	CONTROL TROLL FOR PROP		1	1
27	IS 2485 : 2022	SPECIFICATION FOR DROP		-	Indigenous
		FORGED SOCKETS FOR WIRE			
		ROPES FOR GENERAL			
		ENGINEERING PURPOSES			
28	IS 2581 : 2002	Second Revision	Echmony 2022		Indianava
28		Round strand galvanized steel wire	February, 2022	-	Indigenous
	Reviewed In: 2022	ropes for shipping purposes -			
29	IS 2721 : 2003	Specification (Fourth Revision) Galvanized steel chain link fence	March, 2024		Indigenous
29	Reviewed In : 2024		Maich, 2024	-	indigenous
	Reviewed III . 2024	fabric - Specification (Second Revision)			
30	IS 2762 : 2009	Wire rope slings and sling legs -	September, 2020		Indigenous
	Reviewed In : 2020	Specification (Second Revision)	September, 2020		margenous
31	IS 278 : 2009	Galvanized steel barbed wire for	September, 2020	_	Indigenous
	Reviewed In : 2020	fencing - Specification (Fourth	September, 2020		margenous
	Reviewed III . 2020	Revision)			
32	IS 3121 : 2023	SPECIFICATION FOR RIGGING		_	Indigenous
52	10 3121 . 2023	SCREWS AND STRETCHING			margenous
		SCREWS (Second Revision of IS			
		3121)			
33	IS/ISO 3155 : 1976	Stranded wire ropes for mine	July, 2021	_	Indigenous
	ISO 3155 : 1976	hoisting - Fiber components -	5 ary, 2021		margenous
	Reviewed In : 2021	Characteristics and tests			
34	IS/ISO 3156 : 1976	Stranded wire ropes for mine	July, 2021	_	Identical under single
	ISO 3156 : 1976	hoisting - Impregnating	5 ary, 2021		numbering
	Reviewed In: 2021	compounds, lubricants and service			namoering
		dressings - Characteristics and tests			
35	IS 3374 : 2013	Preformed steel wire ropes for	March, 2019	-	Not Equivalent
	Reviewed In: 2019	aircraft control (Second Revision)	,		1
	Reaffirmed but not	(20000000000000000000000000000000000000			
	taken up for revision				
	ISO 2020-1:1997				
36	IS 3459 : 2004	Small wire ropes - Specification	September, 2020	-	Indigenous
	Reviewed In: 2020	(Second Revision)	-		
37	IS 3623 : 2024	GUIDE AND RUBBING ROPES		-	Indigenous
		â€" SPECIFICATION (Second			
		Revision)			
38	IS 3623 : 1978	Specification for guide and rubbing	February, 2022	1	Indigenous
	Reviewed In: 2022	ropes (First Revision)			
39	IS 3626 : 2001	Locked coil winding ropes -	February, 2021	-	Indigenous
	Reviewed In: 2021	Specification (Second Revision)			
40	IS 3937 (Part 1):	RECOMMENDATIONS FOR		-	Indigenous
	2022	SOCKETING OF WIRE ROPES -			
		PART 1 SOCKETING WITH			
		ZINC Second Revision			
41	IS 3937 (Part 2):	RECOMMENDATIONS FOR		-	Indigenous
	2022	SOCKETING OF WIRE ROPES -			
		PART 2 SOCKETING WITH			
		WHITE METAL Second Revision			<u> </u>
42	IS 3937 (Part 3):	RECOMMENDATIONS FOR		-	Indigenous
	2022	SOCKETING OF WIRE ROPES -			
		PART 3 SOCKETING WITH			
<u> </u>		RESINS First Revision			<u> </u>
43	IS 3973 : 2022	CODE OF PRACTICE FOR THE		-	Indigenous
		SELECTION INSTALLATION			
		AND MAINTENANCE OF WIRE			
	VO 4551 555	ROPES Second Revision	<b>T</b> 1		<b>.</b>
44	IS 4521 : 2001	Wire ropes used in oil wells and oil	February, 2022	-	Indigenous
	Reviewed In: 2022	well drilling - Specification			
•	•			•	•

1		(Second Revision)			
45	IS 4948 : 2020	Welded Steel Wire Fabric for	-	1	Indigenous
		General Use - Specification (Third			_
		Revision )			
46	IS 5245 (Part 1):	METHODS FOR SPLICING OF		=	Indigenous
	2022	WIRE ROPES PART I HAND			
		SPLICING OF WIRE ROPES			
		First Revision			
47	IS 5245 (Part 2):	Methods for splicing of wire ropes:	March, 2024	=	Indigenous
	2013	Part 2 wire rope sling legs with			
	Reviewed In: 2024	ferrule - Secured eye terminal			
		(First Revision)			
48	IS 5836 : 1977	Specification for inner wire, ropes	February, 2022	=	Indigenous
	Reviewed In: 2022	for automobile control cables (First			
		Revision)			
49	IS 6594 : 2018	Technical supply conditions for	July, 2023	1	Indigenous
		steel wire ropes and strands (Third			
	Reviewed In: 2023	Revision)			
50	IS 9282 : 2021	Wire Ropes and Strands for		-	Indigenous
		Suspension Bridges			

# **Standards under Development**

	Projects Approved			
SI. No.	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 10 (24962)	METALLIC OR POLYMER COATED - WELDED WIRE MESH FENCING SPECIFICATION		

	Finalized Draft Indian Standard				
SI. No.	Doc No.	Title			
1	MED 10 (25682) Revision	STEEL WIRE ROPES FOR LIFTS MINIMUM REQUIREMENTS Third revision of IS 2365			
	of: IS 2365:2018				
2	MED 10 (25706) Revision	STEEL WIRE ROPES FOR GENERAL ENGINEERING PURPOSE SPECIFICATION Sixth			
	of: IS 2266:2019	Revision of IS 2266			
3	MED 10 (25710) Revision	STRANDED STEEL WIRE ROPES FOR WINDING AND MAN-RIDING HAULAGES IN			
	of: IS 1855:2003	MINES SPECIFICATION Fourth Revision of IS 1855			
4	MED 10 (25711) Revision	WIRE ROPES USED IN OIL WELLS AND OIL WELL DRILLING SPECIFICATION Third			
	of: IS 4521:2001	Revision of IS 4521			
5	MED 10 (25713) Revision	TECHNICAL SUPPLY CONDITIONS FOR STEEL WIRE ROPES AND STRANDS Fourth			
	of: IS 6594:2018	Revision of IS 6594			

	Finalized Draft Indian Standards under Print			
SI. No.	Doc No.	Title		
1	MED 10 (19888) Revision	LOCKED COIL WINDING ROPES SPECIFICATION		
	of: IS 3626:2001			
2	MED 10 (24023) Revision	Wire Ropes and Strands for General Structural Applications Including Cable Supported Bridges		
	of: IS 9282:2021	Specification		
3	MED 10 (24953) Revision	MECHANICALLY WOVEN DOUBLE-TWISTED HEXAGONAL WIRE MESH GABIONS		
	of: IS 16014:2012	REVET MATTRESSES ROCK FALL NETTING AND OTHER PRODUCTS FOR CIVIL		
		ENGINEERING PURPOSES GALVANIZED STEEL WIRE OR GALVANIZED STEEL WIRE		
		WITH POLYMER COATING SPECIFICATION Second Revision of IS 16014		

#### Total Published Standards:44 Total Standards Under development:9

## **Aspect Wise Report**

Product: 32
Code of Practices: 11
Methods of Test: 3
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
1	IS 12694 : 1993	Large Diameter Steel Wire Ropes
	IEC 8369	
2	IS 13869 : 1993	High Breaking Load Steel Wire Ropes s
3	IS 13902 (Part 3): 1993	Sockets for wire ropes for general purposes Part 3 special requirements for sockets produced by
	ISO 3189-3	casting
	Reviewed In: 2022 ISO	
	3189-3:1985	
4	IS 16014 : 2012	Mechanically woven double -twisted hexagonal Wire Mesh Gabions Revet Mattresses and Rock
	IEC TS 62351-100-1:2018	fall Netting Galvanized steel wire or Galvanized steel wore with PVC coating - Specification
5	IS 2266 : 2002	Steel Wire Ropes for General Engineering Purposes
	ISO 2408	
	Reviewed In: 2012 ISO	
	18526-3 : 2020	
6	IS 2352 : 1963	Procedure for basic climatic and durability tests for optical instruments
7	IS 2365 : 1977	Steel Wire Suspension Ropes for Lifts Elevators and Hoists
	Reviewed In: 2012 ISO	
	18526-4 : 2020	
8	IS 2758 : 1969	mild steel point hooks for use with wire rope thimbles
	Reviewed In: 2013	
9	IS 4198 : 1967	Emulsion Spraying Machine For Roads
	Reviewed In: 1991	
10	IS 4230 : 1967	Lock Lever Tumbler Type
	Reviewed In: 1991	
11	IS 4507 : 1978	Yacht Ropes
	Reviewed In: 2001	
	5 · · · · · · · · · · · · · · · · · · ·	

12	IS 4734 : 1968	Short needle bars for sewing machines household purposes
13	IS 5202 : 1969	Flat Hoisting Wire Ropes Used in Mines
14	IS 5203 : 1969 Reviewed In : 1996	Flat Balancing Wire Ropes Used in Mines

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

SI. No.	IS No. & Year	Title
1	IS 10887 : 2001	Steel wire ropes for winches and ropeways used in forestry and agriculture - Specification First
1	Reviewed In : 2022	Revision
2	IS 10891 (Part 1): 2001	Steel wire ropes for aerial ropeways - Specification Part 1 haulage ropes First Revision
	Reviewed In : 2022	oteel whe topes for aerial topeways openheation fait I hadiage topes I had kevision
3	IS 10891 (Part 2) : 2018	Specification for steel wire ropes for aerial ropeways Part 2 track ropes
	15 10071 (1 411 2) : 2010	opeomedical for steel who ropes for definit rope ways full 2 duck ropes
	Reviewed In: 2023	
4	IS 10942 : 2000	Ferrule - Specification First Revision
	Reviewed In: 2021	•
5	IS 12776 : 2002	Galvanized strand for earthing - Specification First Revision
	Reviewed In: 2022	
6	IS 16013 : 2018	Welded wire gabions Metallic - Coated Or Metallic - Coated With PVC Coating - Specification
		First Revision
	Reviewed In: 2023	
7	IS/ISO 17745 : 2016	Steel Wire Ring Net Panels Definitions and Specifications
	ISO 17745 : 2016	
_	ISO 17745	
8	IS/ISO 17746 : 2016	Steel Wire Ring Net Panels Definitions and Specifications
	ISO 17746 : 2016	
	ISO 17746	DOLLYD OTTERL WINE DODE LIGED AG DALLANGE DODEG BY MYTEG ODEGERGATION
9	IS 18532 : 2024	ROUND STEEL WIRE ROPE USED AS BALANCE ROPES IN MINES SPECIFICATION
10	IS 1855 : 2022	Stronged steel wire rouge for winding and man. Diding houldges in mines. Specification Third
10	15 1655 : 2022	Stranded steel wire ropes for winding and man - Riding haulages in mines - Specification Third Revision
11	IS 1856 : 2021	Steel wire ropes for haulage purposes - Specification Fourth Revision
''	ISO 10552:2014	steel whe topes for hadings purposes specification found freviolen
12	IS 2140 : 2022	SPECIFICATION FOR STRANDED GALVANIZED STEEL WIRE FOR FENCING Second
		Revision of IS 2140
13	IS 2141 : 2000	Hot dip galvanized stay strand - Specification Fourth Revision
	Reviewed In: 2021	
14	IS 2265 : 2009	Specification for galvanized steel wire strand for signaling purposes First Revision
	Reviewed In: 2020	
15	IS 2315 : 2023	SPECIFICATION FOR THIMBLES FOR WIRE ROPES Second Revision of IS 2315
16	IS 2361 : 2002	Bulldog grips - Specification Third Revision
	Reviewed In: 2022	
17	IS/ISO 2408 : 2017	Steel wire ropes Requirements
	2408	
10	ISO 20957-6	SPECIFICATION FOR DROP FORGED SOCKETS FOR WIRE ROPES FOR GENERAL
18	IS 2485 : 2022 ISO 10079-1:2022	ENGINEERING PURPOSES Second Revision
19	IS 2581 : 2002	Round strand galvanized steel wire ropes for shipping purposes - Specification Fourth Revision
17	Reviewed In : 2022	Round strand garvanized steet wite topes for simpping purposes - specification routin Revision
20	IS 2721 : 2003	Galvanized steel chain link fence fabric - Specification Second Revision
	Reviewed In : 2024	our anized steel chain this refice factive operational decond revision
21	IS 2762 : 2009	Wire rope slings and sling legs - Specification Second Revision
]	Reviewed In : 2020	
22	IS 278 : 2009	Galvanized steel barbed wire for fencing - Specification Fourth Revision
	Reviewed In: 2020	
	Reviewed III: 2020	

	<u> </u>	
23	IS 3121 : 2023	SPECIFICATION FOR RIGGING SCREWS AND STRETCHING SCREWS Second Revision of
		IS 3121
24	IS 3374 : 2013	Preformed steel wire ropes for aircraft control Second Revision
	Reviewed In: 2019	
	Reaffirmed but not taken up	
	for revision ISO	
	2020-1:1997	
25	IS 3459 : 2004	Small wire ropes - Specification Second Revision
	Reviewed In: 2020	
26	IS 3623 : 2024	GUIDE AND RUBBING ROPES SPECIFICATION Second Revision
27	IS 3626 : 2001	Locked coil winding ropes - Specification Second Revision
	Reviewed In: 2021	
28	IS 4521 : 2001	Wire ropes used in oil wells and oil well drilling - Specification Second Revision
	Reviewed In: 2022	
29	IS 4948 : 2020	Welded Steel Wire Fabric for General Use - Specification Third Revision
		•
30	IS 5836 : 1977	Specification for inner wire ropes for automobile control cables First Revision
	Reviewed In: 2022	
31	IS 6594 : 2018	Technical supply conditions for steel wire ropes and strands Third Revision
		11 7
	Reviewed In: 2023	
32	IS 9282 : 2021	Wire Ropes and Strands for Suspension Bridges
		1