

BUREAU OF INDIAN STANDARDS

Program of Work

TED 19 : Marine Engineering And Safety Aids

Scope: a) Standardization of all fittings for main propelling machinery, auxiliary machinery, testing procedures auxiliaries required for the operation of main propulsive machinery, marine internal combustion engine, heat exchanger and fittings; winches, windlasses and steering gears; machinery for dredgers, tugs and other small crafts. Buoyant apparatus; lifebuoy; distress signals and other life-saving equipment lifeboats, life rafts and launching gear; equipment, systems and engineering for firefighting, fire protection and detection etc. magnetic and gyro compasses and connected items; signaling equipment navigation lights and shapes; clinometer, navigational sextant, instruments for chart work etc. auto alarm; auto keying devices; direction finders; electronic equipment for marine navigation. b) Co-ordination of work with ISO/TC 8 and its relevant sub-committees ISO/TC 8/SC 1, ISO/TC 8/SC 4, ISO/TC 8/SC 6 c) Co-ordination of work with IEC/TC 80.

Liaison: **IEC TC-80 (P):** *Maritime navigation and radiocommunication equipment and systems*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10007 : 1981 <i>Reviewed In : 2021 IS/ISO 10007:2017</i>	Lifeboats' Steel Blocks	March, 2021	-	Identical under single numbering
2	IS 10492 : 1983 <i>Reviewed In : 2019</i>	General requirements and testing of anchor cable stoppers	May, 2019	-	Indigenous
3	IS 10746 (Part 1) : 1983 <i>Reviewed In : 2019</i>	Specification for shell and tube type marine heat exchangers: Part 1 application standard	May, 2019	-	Indigenous
4	IS 10746 (Part 2) : 1983 <i>Reviewed In : 2019</i>	Specification for shell and tube type marine heat exchangers: Part 2 general requirements	May, 2019	-	Indigenous
5	IS 11125 : 1984 <i>Reviewed In : 2021</i>	General requirements for plate heat exchangers for marine use	January, 2021	1	Indigenous
6	IS 11608 : 1986 <i>Reviewed In : 2021</i>	Specification for signalling whistle for life saving appliances for sea - Going ships	March, 2021	-	Indigenous
7	IS 11641 : 1986 <i>Reviewed In : 2021</i>	General requirements and testing of marine inflatable liferafts	March, 2021	-	Indigenous
8	IS 12156 : 2006 ISO 9089 <i>Reviewed In : 2021 ISO 9089:1989</i>	Marine structures - Mobile offshore units - Anchor winches (First Revision)	January, 2021	-	Identical under dual numbering
9	IS 12264 : 1987 <i>Reviewed In : 2021</i>	Signaling Mirror for Lifeboats and Liferafts for Sea-going Ships	March, 2021	-	Indigenous
10	IS 12264 : 1987 <i>Reviewed In : 2016</i>	Specification for signalling mirror for lifeboats and liferafts for sea - Going ships	March, 2016	-	Indigenous

11	IS H12264 : 1987 Reviewed In : 2016	Signaling Mirror for Lifeboats and Liferrafts for Sea-going Ships (HINDI)	March, 2016	-	
12	IS 12266 : 1987 Reviewed In : 2021	international shore connection for use on board ship	March, 2021	-	Indigenous
13	IS 12266 : 1987 Reviewed In : 2016	Specification for international shore connections for use on board ship	March, 2016	-	Indigenous
14	IS H12266 : 1987 Reviewed In : 2016	international shore connection for use on board ship (HINDI)	March, 2016	-	
15	IS 12268 (Part 1) : 1987 ISO 6552 Reviewed In : 2021 ISO 6552:1981	Specification for automatic steam traps for marine use: Part 1 glossary of terms	March, 2021	-	Identical under dual numbering
16	IS 12268 (Part 2) : 1988 ISO 6704 Reviewed In : 2021 ISO 6704:1982	Specification for automatic steam traps for marine use: Part 2 classification	March, 2021	-	Identical under dual numbering
17	IS 12268 (Part 3) : 1989 ISO 6554 Reviewed In : 2019 ISO 6554:1980	Shipbuilding - Automatic steam traps for marine use: Part 3 face - To - Face dimensions	May, 2019	-	Identical under dual numbering
18	IS 12268 (Part 4) : 1989 ISO 6948 Reviewed In : 2019 ISO 6948:1981	Shipbuilding - Automatic steam traps for marine use: Part 4 performance test	May, 2019	-	Identical under dual numbering
19	IS 12268 (Part 5) : 1987 ISO 6553 Reviewed In : 2021 ISO 6553:1980	Specification for automatic steam traps for marine use: Part 5 marking	March, 2021	-	Identical under dual numbering
20	IS 12719 : 1989 ISO 7825 Reviewed In : 2019 ISO 7825:1985	Ship building - Deck machinery - General requirements	May, 2019	-	Identical under dual numbering
21	IS 12794 : 1989 Reviewed In : 2019	Shipbuilding - Steam traps - Guidelines for selection	May, 2019	-	Indigenous
22	IS 13632 : 2021 ISO 8728:2014 ISO 8728:2014	SHIPS AND MARINE TECHNOLOGY ? MARINE GYRO-COMPASSES		-	Identical under single numbering
23	IS 13708 (Part 1) : 2014 ISO 8729-7 : 2010 Reviewed In : 2019 ISO 8729-1:2010	Ships and marine technology - Marine radar reflectors: Part 1 passive type (Second Revision)	July, 2019	-	Identical under dual numbering
24	IS 13708 (Part 2) : 2014 ISO 8729-2 : 2009 Reviewed In : 2019 ISO 8729-2:2009	Ships and marine technology - Marine radar reflectors: Part 2 active type (Second Revision)	May, 2019	-	Identical under dual numbering
25	IS 14270 (Part 1) : 1995 Reviewed In : 2019	Shipbuilding pyrotechnic distress signals for ships: Part 1 general requirements	May, 2019	-	Indigenous
26	IS 14270 (Part 2) : 1997	Shipbuilding - Pyrotechnic distress signals for ships: Part 2 red flare	March, 2021	-	Indigenous

	Reviewed In : 2021	parachute signal - Specification			
27	IS 14270 (Part 3) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships: Part 3 red star rocket signal - Specification	March, 2021	-	Indigenous
28	IS 14270 (Part 4) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships: Part 4 white flare signal - Specification	March, 2021	-	Indigenous
29	IS 14270 (Part 5) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships: Part 5 white flare parachute signal - Specification	March, 2021	-	Indigenous
30	IS 14270 (Part 8) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships: Part 8 orange smoke signal - Specification	March, 2021	-	Indigenous
31	IS 15052 : 2002 Reviewed In : 2023	Shipbuilding - Diesel propulsion system responsibility - Requirements	January, 2023	-	Indigenous
32	IS 15053 : 2001 Reviewed In : 2021	Shipbuilding - Hydraulic steering gears for vessels below 500 grt - General requirements	March, 2021	1	Indigenous
33	IS 15324 : 2003 Reviewed In : 2023	Shipbuilding - Selection and testing of air starting systems - Code of practice	June, 2023	-	Indigenous
34	IS 15632 : 2018 ISO 16165 : 2013 Reviewed In : 2021 ISO 16165:2013	Ships and marine technology - Marine environment protection - Terminology relating to oil spill response (First Revision)	March, 2021	-	Identical under dual numbering
35	IS 16323 : 2017 ISO 25862:2009 Reviewed In : 2022 ISO 25862:2009	SHIPS AND MARINE TECHNOLOGY - MARINE MAGNETIC COMPASSES, BINNACLES AND AZIMUTH READING DEVICES	August, 2022	-	Identical under dual numbering
36	IS 17536 (Part 1) : 2021 ISO 18079-1 ISO 18079-1	Ships and marine technology - Servicing of inflatable life-saving appliances - Part 1: General		-	Identical under dual numbering
37	IS 17536 (Part 2) : 2021 ISO 18079-2 ISO 18079-2	Ships and marine technology -- Servicing of inflatable life-saving appliances -- Part 2: Inflatable life rafts		-	Identical under dual numbering
38	IS 17536 (Part 3) : 2021 ISO 18079-3 ISO 18079-3	Ships and marine technology - Servicing of inflatable life-saving appliances - Part 3: Inflatable lifejackets		-	Identical under dual numbering
39	IS 17536 (Part 4) : 2022 ISO 18079-4 ISO 18079-4	Ships and marine technology -- Servicing of inflatable life-saving appliances -- Part 4: Marine evacuation systems		-	Identical under dual numbering
40	IS 17536 (Part 5) : 2021 ISO 18079-5 ISO 18079-5	Ships and marine technology - Servicing of inflatable life-saving appliances - Part 5: Inflated rescue boats		-	Identical under dual numbering
41	IS 17564 : 2021 ISO 15371 ISO 15371	Ships And Marine Technology - Fire-Extinguishing Systems For Protection Of Galley Cooking Equipment		-	Identical under dual numbering
42	IS 3573 : 2010 Reviewed In : 2020	Sea anchors for lifeboats and liferafts - Specification (First Revision)	January, 2020	-	Indigenous
43	IS 3580 : 2007	General requirements for distress	January, 2023	-	Indigenous

	Reviewed In : 2023	signals for lifeboats and liferafts (First Revision)			
44	IS 3586 : 2007 Reviewed In : 2023	Recommendation for lifeboats equipment (First Revision)	January, 2023	-	Indigenous
45	IS 3732 : 2013 Reviewed In : 2023	Rigid liferafts - Specification (First Revision)	May, 2023	-	Indigenous
46	IS 3947 : 1994 Reviewed In : 2019	Shipbuilding - Testing, installation and maintenance of marine portable fire appliances - Code of practice (First Revision)	July, 2019	-	Indigenous
47	IS 3979 : 1998 ISO 3046-2 Reviewed In : 2023 ISO 3046-2:1987	Shipbuilding - Testing of marine diesel engines - Code of practice (First Revision)	October, 2023	-	Modified/Technically Equivalent
48	IS 4259 : 1967 Reviewed In : 2019	Code of practice for erection and calibration of direction - Finders (Medium Frequency) for marine use	May, 2019	1	Indigenous
49	IS 4549 : 1968 Reviewed In : 2021	Specification for lifeboat compass - Liquid type	March, 2021	-	Indigenous
50	IS 4550 : 1968 Reviewed In : 2021	Recommendation for positioning of magnetic compasses in ships	March, 2021	-	Indigenous
51	IS 4551 : 1968 Reviewed In : 2021	Specification for lifeboat crutches	March, 2021	-	Indigenous
52	IS 4568 : 2007 Reviewed In : 2023	Lifeboat oars (Wood) - Specification (First Revision)	January, 2023	-	Indigenous
53	IS 4601 (Part 1) : 1968 Reviewed In : 2019	Navigation lights for large sea - Going power - Driven vessels: Part 1 positioning and screening of lights	May, 2019	-	Indigenous
54	IS 4601 (Part 2) : 1968 Reviewed In : 2019	Navigation lights for large sea - Going powerldriven vessels: Part 2 oil lanterns	May, 2019	-	Indigenous
55	IS 4602 : 1968 Reviewed In : 2019	General requirements and testing of lifeboats for less than one hundred persons	May, 2019	-	Indigenous
56	IS 5112 : 1972 Reviewed In : 2019	General requirements and testing of ac cargo winches (for shipboard use) (First Revision)	May, 2019	-	Indigenous
57	IS 5113 : 2021 ISO 3730:2012 ISO 3730:2012	Shipbuilding and marine structures - Mooring winches (Third Revision)		-	Identical under single numbering
58	IS 5130 : 1969 Reviewed In : 2019	Specification for drums fitted to cargo and mooring winches	May, 2019	-	Indigenous
59	IS 5289 : 1989 ISO 1069 Reviewed In : 2019 ISO 1069:1973	Shipbuilding - Magnetic compasses and binnacles - Glossary of terms (First Revision)	May, 2019	-	Modified/Technically Equivalent
60	IS 5314 : 1986 Reviewed In : 2021	Specification for graduated drinking vessels for lifeboats and liferafts for sea - Going ships (First Revision)	March, 2021	-	Indigenous
61	IS 5326 : 2007 Reviewed In : 2023	Life - Buoys - Specification (First Revision)	January, 2023	-	Indigenous
62	IS 5327 : 1969 Reviewed In : 2019	Specification for rigid bailers for lifeboats	May, 2019	-	Indigenous
63	IS 5376 : 1969 Reviewed In : 2019	Specification for dioptric lenses for navigational lanterns	May, 2019	-	Indigenous
64	IS 5385 : 2007	Lifeboat accessories -	January, 2023	-	Indigenous

	Reviewed In : 2023	Specification (First Revision)			
65	IS 5386 : 1969 Reviewed In : 2021	General purpose Ship's Davit	March, 2021	-	Indigenous
66	IS 6675 : 1972 Reviewed In : 2021	Specification for cable lifters for windlasses	March, 2021	-	Indigenous
67	IS 6685 : 2009 Reviewed In : 2019	Life jackets - Specification (First Revision)	March, 2019	-	Indigenous
68	IS 7411 (Part 1) : 1974 Reviewed In : 2019	Ships' Intermediate Shafts (Integral Flange) - Part I : For Port Crafts	May, 2019	-	Indigenous
69	IS 7411 (Part 2) : 1974 Reviewed In : 2019	Ships' Intermediate Shafts (Integral Flange) - Part II : For Sea-going Vessels	May, 2019	-	Indigenous
70	IS 7723 : 1975 Reviewed In : 2021	Ships' Flag Staff	March, 2021	-	Indigenous
71	IS 7937 : 2012 ISO 4568 Reviewed In : 2022 ISO 4568:2006	Shipbuilding - Sea - Going vessels - Windlasses and anchor capstans (Third Revision)	February, 2022	-	Modified/Technically Equivalent
72	IS 8114 : 1984 Reviewed In : 2021	Guidelines for machining dimensions of propeller hubs with keyway (First Revision)	January, 2021	-	Indigenous
73	IS 8173 : 1984 Reviewed In : 2021	Specification for propeller shafts (With Keyway) of diameter 20 to 160 mm (First Revision)	January, 2021	1	Indigenous
74	IS 8650 : 2015 Reviewed In : 2020 ISO 3828:2008	Shipbuilding and marine structures - Deck machinery - Vocabulary and symbols (Second Revision)	March, 2020	-	Identical under dual numbering
75	IS 8993 : 2004 ISO 6555 Reviewed In : 2019 ISO 6555:1998	Shipbuilding - Topping (First Revision)	May, 2019	-	Identical under dual numbering
76	IS 8994 : 2021 ISO 7364:2016 ISO 7364:2016	SHIPS AND MARINE TECHNOLOGY ? DECK MACHINERY ? ACCOMMODATION LADDER WINCHES		-	Identical under single numbering
77	IS 9067 : 2012 ISO 6067 Reviewed In : 2022 ISO 15516:2006	Ships and marine technology - Launching appliances for davit - Launched lifeboats (Second Revision)	February, 2022	-	Identical under dual numbering
78	IS 9464 : 1980 Reviewed In : 2021	Specification for horizontal centrifugal pumps for marine use	March, 2021	-	Indigenous
79	IS 9837 : 1981 Reviewed In : 2021	Code for testing of marine centrifugal oil purifiers	March, 2021	-	Indigenous
80	IS 9852 : 1981 Reviewed In : 2021	General requirements and testing of capstans	March, 2021	-	Indigenous

Standards under Development

Projects Approved

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

Preliminary Draft Standards

SI. No.	Doc No.	Title
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No Records Found

Drafts Standards in WC Stage

Sl. No.	Doc No.	Title
1	TED 19 (18813) Revision of: IS 4551:1968	Lifeboat Crutches - Specification
2	TED 19 (21868) Revision of: IS 5326:2007	Life-Buoys - Specification
3	TED 19 (23070) Revision of: IS 12266:1987	INTERNATIONAL SHORE CONNECTIONS FOR USE ON BOARD SHIP - SPECIFICATION
4	TED 19 (23098) Revision of: IS 12264:1987	SIGANLLING MIRROR FOR LIFEBOATS LIFERAFTS AND RESCUE BOATS FOR SEA-GOING SHIPS SPECIFICATION

Draft Standards Completed WC Stage

Sl. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

Sl. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	TED 19 (16834) Revision of: IS 9464:1980	Horizontal Centrifugal Pumps for Marine Use - Specification

Total Published Standards:80 Total Standards Under development:5

Aspect Wise Report

Product : 52
Code of Practices : 11
Methods of Test : 4
Terminology : 3
Dimensions : 1
System Standard : 0
Safety Standard : 3
Others : 6
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 11160 : 1984 Reviewed In : 2000	Guidelines for tools and outfits for ships machinery
2	IS 13708 : 2004 ISO 8729 Reviewed In : 2009	Shipbuilding and Marine Technology - Marine Radar Reflectors
3	IS 4045 : 2006 ISO 449 Reviewed In : 2021	Ships and marine technology - Magnetic compasses binnacles and azimuth reading devices - Class a Second Revision
4	IS 4562 : 1997	Shipbuilding - Portable Chemical Fire Extinguishers Foam Type for Marine Use

	Reviewed In : 2002	
5	IS 8150 : 1997 Reviewed In : 2010	Shipbuilding - 45 Litre Capacity Chemical Foam Type Fire Engine for Marine Use
6	IS 8638 : 2006 ISO 2269 Reviewed In : 2021 ISO 2269	Shipbuilding - Class A magnetic compasses azimuth reading devices and binnacles - Tests and certifications
7	IS 8638 (Part 13) : 1989 Reviewed In : 2004	Shipbuilding - Class A magnetic compasses binnacles and azimuth reading devices - Code for testing and certification
8	IS 9966 : 2006 ISO 613 Reviewed In : 2021	Ships and marine technology - Magnetic compasses binnacles and azimuth reading devices - Class b First Revision

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10007 : 1981 Reviewed In : 2021 IS/ISO 10007:2017	Lifeboats Steel Blocks
2	IS 10492 : 1983 Reviewed In : 2019	General requirements and testing of anchor cable stoppers
3	IS 10746 (Part 1) : 1983 Reviewed In : 2019	Specification for shell and tube type marine heat exchangers Part 1 application standard
4	IS 10746 (Part 2) : 1983 Reviewed In : 2019	Specification for shell and tube type marine heat exchangers Part 2 general requirements
5	IS 11125 : 1984 Reviewed In : 2021	General requirements for plate heat exchangers for marine use
6	IS 11608 : 1986 Reviewed In : 2021	Specification for signalling whistle for life saving appliances for sea - Going ships
7	IS 12156 : 2006 ISO 9089 Reviewed In : 2021 ISO 9089:1989	Marine structures - Mobile offshore units - Anchor winches First Revision
8	IS 12264 : 1987 Reviewed In : 2021	Signaling Mirror for Lifeboats and Liferrafts for Sea-going Ships
9	IS 12268 (Part 2) : 1988 ISO 6704 Reviewed In : 2021 ISO 6704:1982	Specification for automatic steam traps for marine use Part 2 classification
10	IS 12719 : 1989 ISO 7825 Reviewed In : 2019 ISO 7825:1985	Ship building - Deck machinery - General requirements
11	IS 13632 : 2021 ISO 8728:2014 IEC 62891 : 2020	SHIPS AND MARINE TECHNOLOGY MARINE GYRO-COMPASSES
12	IS 13708 (Part 1) : 2014 ISO 8729-7 : 2010 Reviewed In : 2019 ISO 8729-1:2010	Ships and marine technology - Marine radar reflectors Part 1 passive type Second Revision
13	IS 13708 (Part 2) : 2014 ISO 8729-2 : 2009 Reviewed In : 2019 ISO 8729-2:2009	Ships and marine technology - Marine radar reflectors Part 2 active type Second Revision
14	IS 14270 (Part 1) : 1995 Reviewed In : 2019	Shipbuilding pyrotechnic distress signals for ships Part 1 general requirements
15	IS 14270 (Part 2) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships Part 2 red flare parachute signal - Specification
16	IS 14270 (Part 3) : 1997	Shipbuilding - Pyrotechnic distress signals for ships Part 3 red star rocket signal - Specification

	Reviewed In : 2021	
17	IS 14270 (Part 4) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships Part 4 white flare signal - Specification
18	IS 14270 (Part 5) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships Part 5 white flare parachute signal - Specification
19	IS 14270 (Part 8) : 1997 Reviewed In : 2021	Shipbuilding - Pyrotechnic distress signals for ships Part 8 orange smoke signal - Specification
20	IS 15052 : 2002 Reviewed In : 2023	Shipbuilding - Diesel propulsion system responsibility - Requirements
21	IS 15053 : 2001 Reviewed In : 2021	Shipbuilding - Hydraulic steering gears for vessels below 500 grt - General requirements
22	IS 16323 : 2017 ISO 25862:2009 Reviewed In : 2022	SHIPS AND MARINE TECHNOLOGY - MARINE MAGNETIC COMPASSES BINNACLES AND AZIMUTH READING DEVICES
23	IS 17564 : 2021 ISO 15371 ISO 21720	Ships And Marine Technology - Fire-Extinguishing Systems For Protection Of Galley Cooking Equipment
24	IS 3573 : 2010 Reviewed In : 2020	Sea anchors for lifeboats and liferafts - Specification First Revision
25	IS 3580 : 2007 Reviewed In : 2023	General requirements for distress signals for lifeboats and liferafts First Revision
26	IS 3732 : 2013 Reviewed In : 2023	Rigid liferafts - Specification First Revision
27	IS 4549 : 1968 Reviewed In : 2021	Specification for lifeboat compass - Liquid type
28	IS 4551 : 1968 Reviewed In : 2021	Specification for lifeboat crutches
29	IS 4568 : 2007 Reviewed In : 2023	Lifeboat oars Wood - Specification First Revision
30	IS 4601 (Part 2) : 1968 Reviewed In : 2019	Navigation lights for large sea - Going powerdriven vessels Part 2 oil lanterns
31	IS 5113 : 2021 ISO 3730:2012 ISO 13990-1 : 2006	Shipbuilding and marine structures - Mooring winches Third Revision
32	IS 5130 : 1969 Reviewed In : 2019	Specification for drums fitted to cargo and mooring winches
33	IS 5314 : 1986 Reviewed In : 2021	Specification for graduated drinking vessels for lifeboats and liferafts for sea - Going ships First Revision
34	IS 5326 : 2007 Reviewed In : 2023	Life - Buoys - Specification First Revision
35	IS 5327 : 1969 Reviewed In : 2019	Specification for rigid bailers for lifeboats
36	IS 5376 : 1969 Reviewed In : 2019	Specification for dioptric lenses for navigational lanterns
37	IS 5385 : 2007 Reviewed In : 2023	Lifeboat accessories - Specification First Revision
38	IS 5386 : 1969 Reviewed In : 2021	General purpose Ship s Davit
39	IS 6675 : 1972 Reviewed In : 2021	Specification for cable lifters for windlasses
40	IS 6685 : 2009 Reviewed In : 2019	Life jackets - Specification First Revision
41	IS 7411 (Part 1) : 1974 Reviewed In : 2019	Ships Intermediate Shafts Integral Flange - Part I For Port Crafts
42	IS 7411 (Part 2) : 1974 Reviewed In : 2019	Ships Intermediate Shafts Integral Flange - Part II For Sea-going Vessels
43	IS 7723 : 1975 Reviewed In : 2021	Ships Flag Staff
44	IS 7937 : 2012	Shipbuilding - Sea - Going vessels - Windlasses and anchor capstans Third Revision

	ISO 4568 Reviewed In : 2022 ISO 4568:2006	
45	IS 8114 : 1984 Reviewed In : 2021	Guidelines for machining dimensions of propeller hubs with keyway First Revision
46	IS 8173 : 1984 Reviewed In : 2021	Specification for propeller shafts With Keyway of diameter 20 to 160 mm First Revision
47	IS 8650 : 2015 Reviewed In : 2020 ISO 3828:2008	Shipbuilding and marine structures - Deck machinery - Vocabulary and symbols Second Revision
48	IS 8993 : 2004 ISO 6555 Reviewed In : 2019 ISO 6555:1998	Shipbuilding - Topping First Revision
49	IS 8994 : 2021 ISO 7364:2016 ISO 29992:2018	SHIPS AND MARINE TECHNOLOGY DECK MACHINERY ACCOMMODATION LADDER WINCHES
50	IS 9067 : 2012 ISO 6067 Reviewed In : 2022 ISO 15516:2006	Ships and marine technology - Launching appliances for davit - Launched lifeboats Second Revision
51	IS 9464 : 1980 Reviewed In : 2021	Specification for horizontal centrifugal pumps for marine use
52	IS 9852 : 1981 Reviewed In : 2021	General requirements and testing of capstans