BUREAU OF INDIAN STANDARDS

Program of Work

MHD 6 : Medical and Surgical Cardiology Equipment

Scope: 1) To formulate Indian Standards for thoracic and cardiovascular surgery instruments, cardiology equipment, implants and accessories. 2) To coordinate with the work of: a) ISO/TC 150/ SC2 'Cardiovascular Implants & Extracorporeal System': (P Member) b) ISO/TC 150/SC 6 'Active Implants': (P Member) 3) To coordinate the work of sub-committees under this sectional committee (MHD-06): a) Cardiothoracic and Vascular Surgery Sub Committee b) Cardiology Sub Committee

Liaison: **ISO TC-150 SC-6 (P):** *Active implants* **ISO TC-150 SC-2 (P):** *Cardiovascular implants and extracorporeal systems* **ISO TC-150 SC-6 (P):** *Active implants* **ISO TC-150 SC-2 (P):** *Cardiovascular implants and extracorporeal systems*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10540:1991	Cardiovascular Surgery Instruments - Clamps, Atrial Appendage, Glover's Pattern - Shape and Dimensions	April, 2022	-	Indigenous
2	IS 10541:1991	Cardiovascular surgery instruments - Clamps vena cava,satinsky pattern shape, sizes and dimensions (First Revision)	April, 2022	-	Indigenous
3	IS 11566:2024	Thoracic Surgery Instruments â€" Valve Retractors â€" Specification (First Revision)		-	Indigenous
4	IS/ISO 11658:2012 ISO 11658 : 2012 ISO 11658 : 2012	Cardiovascular Implants and Extracorporeal Organs Blood/Tissue Contact Surface Modifications for Extracorporeal Perfusion Systems		-	Identical under single numbering
5	IS/ISO 12417-1:2015 ISO 12417-1 : 2015 IS/ISO 12417-1:2015	Cardiovascular Implants and Extracorporeal Systems Vascular Device-Drug Combination Products Part 1 General Requirements		-	Identical under single numbering
6	IS 13940:1994	Cardiovascular surgery instruments - Clamps, bulldog, DeBakey,ring handle - Shape and dimensions	April, 2022	-	Indigenous
7	IS 13940:2026	Cardiovascular Surgery Instruments — Bulldog Clamp, DeBakey Pattern —Specification (First Revision)		-	Indigenous
8	IS/ISO 15674-2004:2016 ISO 15674 : 2016	Cardiovascular implants and artificial organs - Hard - Shell cardiotomy/venous reservoir	February, 2022	-	Identical under single numbering

	IS/ISO 15674 : 2016	systems (With/without Filter) and soft venous reservoir bags (Second Revision)			
9	IS/ISO 15675:2016 ISO 15675 : 2016 IS/ISO 15675:2016	Cardiovascular Implants and Artificial Organs Cardiopulmonary Bypass Systems Arterial Blood Line Filters		-	Identical under single numbering
10	IS/ISO 15676:2016 ISO 15676 : 2016 ISO 15676 : 2016	Cardiovascular implants and artificial organs Requirements for single-use tubing packs for cardiopulmonary bypass and extracorporeal membrane oxygenation ECMO First revision		-	Identical under single numbering
11	IS 17646 (Part 1):2021 ISO 23500-1 : 2019 ISO 23500-1 : 2019	Preparation and quality management of fluids for haemodialysis and related therapies : Part 1 General requirements		-	Identical under dual numbering
12	IS 17646 (Part 2):2021 IS/ISO 23500-2 : 2019 IS/ISO 23500-2 : 2019	Preparation and quality management of fluids for haemodialysis and related therapies Part 2 Water treatment equipment for haemodialysis applications and related therapies		-	Identical under dual numbering
13	IS 17646 (Part 3):2021 ISO 23500-3 : 2019 ISO 23500-3 : 2019	Preparation and quality management of fluids for haemodialysis and related therapies Part 3 Water for haemodialysis and related therapies		-	Identical under dual numbering
14	IS 17646 (Part 4):2021 ISO 23500-4 : 2019 ISO 23500-4 : 2019	Preparation and quality management of fluids for haemodialysis and related therapies Part 4 Concentrates for haemodialysis and related therapies		-	Identical under dual numbering
15	IS 17646 (Part 5):2021 ISO 23500-5 : 2019 ISO 23500-5 : 2019	Preparation and quality management of fluids for haemodialysis and related therapies Part 5 Quality of dialysis fluid for haemodialysis and related therapies		-	Identical under dual numbering
16	IS 17708:2021 ISO/TS 23810:2018 ISO/TS 23810:2018	Cardiovascular implants and artificial organs Checklists for use of extracorporeal circulation equipment		-	Identical under single numbering
17	IS 17709:2022 ISO 11318:2002 ISO 11318:2002	Cardiac defibrillators Connector assembly DF-1 for implantable defibrillators Dimensions and test requirements		-	Identical under dual numbering
18	IS 17710:2021 ISO 27185:2012 ISO 27185:2012	Cardiac rhythm management devices- Symbols to be used with cardiac rhythm management device labels and information to be supplied General requirements		-	Identical under dual numbering
19	IS 17712 (Part 2):2021 ISO 5841-2:2014 ISO 5841-2:2014	Implants for surgery Cardiac pacemakers Part 2: Reporting of clinical performance of populations of pulse generators or leads		-	Identical under dual numbering
20	IS 17712 (Part 3):2021 ISO 5841-3:2013 ISO 5841-3:2013	Implants for surgery Cardiac pacemakers Part 3: Low-profile connectors IS-1 for implantable pacemakers		-	Identical under dual numbering

21	IS 17745:2021 ISO 5910:2018 ISO 5910:2018	Cardiovascular implants and extracorporeal systems Cardiac valve repair devices		-	Identical under dual numbering
22	IS 17746:2021 ISO 27186:2020	Active implantable medical devices Four-pole connector system for implantable cardiac rhythm management devices Dimensional and test requirements		-	Modified/Technically Equivalent
23	IS 17750 (Part 4):2025 ISO 14708-4:2022	Implants for surgery ï¿½ Active implantable medical devices ï¿½ Part 4: Implantable infusion pump systems (ISO 14708-4 : 2022, MOD)		-	Modified/Technically Equivalent
24	IS 17750 (Part 6):2022 ISO 14708-6:2019 ISO 14708-6:2019	Implants for Surgery Active Implantable Medical Devices Part 6 Particular Requirements for Active Implantable Medical Devices Intended to Treat Tachyarrhythmia Including Implantable Defibrillators		-	Identical under dual numbering
25	IS 17750 (Part 5):2021 ISO 14708-5:2020 ISO 14708-5:2020	Implants for surgery Active Implantable Medical Devices Part 5: Circulatory Support Devices		-	Identical under dual numbering
26	IS 17751 (Part 2):2024 ISO/TR 12417-2 ISO/TR 12417-2	Cardiovascular Implants and Extracorporeal Systems ï¿½ Vascular Device-Drug Combination Products Part 2 Local Regulatory Information (First Revision)		-	Identical under dual numbering
27	IS 17840 (Part 1):2022 5840-1:2021 5840-1:2021	Cardiovascular Implants Cardiac Valve Prostheses Part 1 General Requirements		-	Identical under dual numbering
28	IS 17840 (Part 3):2022 ISO 5840-3:2021 ISO 5840-3:2021	Cardiovascular Implants Cardiac Valve Prostheses Part 3 Heart Valve Substitutes Implanted by Transcatheter Techniques First Revision		-	Identical under dual numbering
29	IS 17841 (Part 4):2023 ISO 25539-4:2021 ISO 25539-4:2021	Cardiovascular Implants Endovascular Devices Part 4 Application of ISO 17327-1 for Coated Endovascular Devices		-	Identical under dual numbering
30	IS 17841 (Part 2):2022 ISO 25539:2020 ISO 25539:2020	Cardiovascular Implants Endovascular Devices Part 2 Vascular Stents First Revision		-	Identical under dual numbering
31	IS 17842:2022 ISO 14117:2019 ISO 14117:2019	Active Implantable Medical Devices Electromagnetic Compatibility EMC Test Protocols for Implantable Cardiac Pacemakers Implantable Cardioverter Defibrillators and Cardiac Resynchronization Devices		-	Identical under dual numbering
32	IS 17843:2022 ISO/TS 17137:2021 ISO/TS 17137:2021	Cardiovascular Implants and Extracorporeal Systems Cardiovascular Absorbable Implants		-	Identical under dual numbering
33	IS 18207:2023	Evaluation of CPB Devices		-	Identical under dual

	ISO/TR19024:2016 ISO/TR19024:2016	Relative to their Capabilities of Reducing the Transmission of Gaseous Microemboli GME to a Patient during Cardiopulmonary Bypass			numbering
34	IS/ISO 18241:2016 ISO 18241 : 2016 IS/ISO 18241:2016	Cardiovascular Implants and Extracorporeal Systems Cardiopulmonary Bypass Systems Venous Bubble Traps		-	Identical under single numbering
35	IS/ISO 18242:2016 ISO 18242 : 2016 IS/ISO 18242:2016	Cardiovascular Implants and Extracorporeal Systems Centrifugal Blood Pumps		-	Identical under single numbering
36	IS 18903:2025 ISO/PAS 7020:2023 ISO/PAS 7020:2023	Sizing parameters of surgical valve prostheses: Requirements regarding the application of ISO 5840-2		-	Identical under dual numbering
37	IS 18927:2024 ISO 22679:2021	Cardiovascular implants ï¿½ Transcatheter cardiac occluders (ISO 22679 : 2021, MOD)		-	Modified/Technically Equivalent
38	IS 18974:2025 ISO 18193:2021	Cardiovascular Implants and Artificial Organs ï¿½ Cannulae for Extracorporeal Circulation (ISO 18193 : 2021, MOD)		-	Modified/Technically Equivalent
39	IS/ISO 25539-1:2017 ISO 25539-1 : 2017 ISO 25539 : Part 1	Cardiovascular implants - Endovascular devices: Part 1 endovascular prostheses (First Revision)		-	Identical under single numbering
40	IS/ISO 25539-3:2011 ISO 25539-3 : 2011 ISO 25539-3 : 2011	Cardiovascular implants - Endovascular devices: Part 3 vena cava filters	February, 2022	-	Identical under single numbering
41	IS 6395:2024	Thoracic Surgery Instruments â€" Auricle Clamps, Crafoords Pattern â€" Specification (Second Revision)		-	Indigenous
42	IS 6436:2026	Thoracic Surgery Instruments – Rib Spreader, Finochietto's Pattern, Adult Size – Specification		-	Indigenous
43	IS 6442:2024	Thoracic Surgery Instruments â€" Rib Shears, Tudor Edwardâ€™s Pattern â€" Specification (Second Revision)		-	Indigenous
44	IS 6466:2024	Thoracic Surgery Instruments â€" Needle Holder â€" Specification		-	Indigenous
45	IS 6467:2024	Thoracic Surgery Instruments â€" Rib Periosteotome, Alexanderâ€™s Pattern â€" Specification (Second Revision)		-	Indigenous
46	IS 6468:2024	Thoracic Surgery Instruments â€" Empyema Trocar, Nelsonâ€™s Pattern â€" Specification (Second Revision)		-	Indigenous
47	IS 6777:1989	Thoracic and cardiovascular surgery instruments - Forceps, dissecting, lung - Specification (First Revision)	September, 2022	-	Indigenous
48	IS 6778:2024	Thoracic Surgery Instruments â€" Lung Forceps, Duvalâ€™s Pattern â€" Specification (Second Revision)		-	Indigenous

49	IS 6780:2024	Thoracic Surgery Instruments â€" Artery Forceps, Robertâ€™s Pattern â€" Specification (Second Revision)		-	Indigenous
50	IS/ISO 7198:2016 ISO 7198 : 2016 IS/ISO 7198:2016	Cardiovascular Implants and Extracorporeal Systems Vascular Prostheses Tubular Vascular Grafts and Vascular Patches		-	Identical under single numbering
51	IS 7199 (Part 71991996):2016 ISO 7199 : 2016 ISO 7199 : 2016	Cardiovascular implants and artificial organs - Blood - Gas exchangers (Oxygenators) (Second Revision)	February, 2022	-	Identical under single numbering
52	IS 7345:1994	Cardiovascular surgery instruments - Anastomosis forceps and clamps - Patterns, shapes and dimensions (Second Revision)	April, 2022	-	Indigenous
53	IS 7346:2024	Thoracic Surgery Instruments â€" Rib Raspatories â€" Specification (Second Revision)		-	Indigenous
54	IS 7355:2024	Thoracic Surgery Instruments â€" Rib Spreader, Tuffierâ€™s Pattern â€" Specification (Second Revision)		-	Indigenous
55	IS 7367:1987	Clamps, Coarctation, Potts' Pattern, Straight and Angular	September, 2022	-	Indigenous
56	IS 7379:2024	Thoracic Surgery Instruments â€" Straight and Angular Patent Ductus Clamps â€" Specification (Second Revision)		-	Indigenous
57	IS 7382:2024	Thoracic Surgery Instruments â€" Rib Shears, Thomas Pattern â€" Specification (Second Revision)		-	Indigenous
58	IS 7399:1987	Knife, Sternum, Lebsche's Pattern	September, 2022	1	Indigenous
59	IS 7434:2024	Thoracic Surgery Instruments â€" Scapula Retractor â€" Specification (Second Revision)		-	Indigenous
60	IS 7972:2024	Thoracic Surgery Instruments â€" Dissecting Scissors â€" Specification (Second Revision)		-	Indigenous
61	IS 8317:2026	Cardiovascular Surgery Instruments – Angled Vascular Clamps – Specification		-	Indigenous
62	IS 8335:1991	Cardiovascular Surgery Instruments - Clamps, Auricle, Satinsky Pattern - Sizes, Shape and Dimensions	April, 2022	-	Indigenous
63	IS 8345:2026	Thoracic Surgery Instruments Bulldog Clamps Specification		-	Indigenous
64	IS 8549:2024	Thoracic Surgery Instruments - Angled Scissors - Specification (Second Revision)		-	Indigenous
65	IS/ISO 8637-1:2017 ISO 8637-1:2017	Extracorporeal Systems for Blood Purification Part 1 Haemodialysers, Haemodiafilters, Haemofilters and Haemoconcentrators		-	Identical under single numbering
66	IS/ISO 8637-2:2018 ISO 8637-2 : 2018	Extracorporeal Systems for Blood Purification Part 2 Extracorporeal		-	Identical under single numbering

	ISO 8637-2:2018	Blood Circuit for Haemodialysers, Haemodiafilters and Haemofilters			
67	IS/ISO 8637-3:2018 ISO 5840-3 : 2018 ISO 8637-3:2018	Extracorporeal Systems for Blood Purification Part 3 Plasmafilters		-	Identical under single numbering
68	IS 8890:1991	Thoracic surgery instruments - Clamps,bronchus - Types, shapes and dimensions (First Revision)	April, 2022	-	Indigenous
69	IS 9928:1981	Clamp, Aortic, DeBakey's Pattern (Spoon Shaped angled Jaw)	September, 2022	-	Indigenous
70	IS 9950:2024	Thoracic Surgery Instruments â€" Vascular Clamp â€" Specification (First Revision)		-	Indigenous
71	IS 9951:2024	Thoracic Surgery Instruments â€" Blunt End Scissors â€" Specification (First Revision)		-	Indigenous
72	IS 9987:2024	Thoracic Surgery Instruments â€"Multipurpose Clamps â€" Specification (First Revision)		-	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	MHD 6 (27693)	Medical Cardiology Instruments Intracardiac Sucker - Specifications
2	MHD 6 (28470)	Dialyzer Reprocessing Machines Specification

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	MHD 6 (26596) Revision of: IS 8335:1991	Thoracic Surgery Instruments - Auricle Clamps - Specification
2	MHD 6 (26608) Revision of: IS 6777:1989	Thoracic Surgery Instruments - Dissecting Forceps for lungs - Specification
3	MHD 6 (26610) Revision of: IS 7367:1987	Thoracic Surgery Instruments - Straight and Angular Coarctation Clamps Potts Pattern - Specification
4	MHD 6 (26611) Revision of: IS 7399:1987	Thoracic Surgery Instruments - Sternum Knife Lebsches Pattern - Specification
5	MHD 6 (26612) Revision of: IS 9928:1981	Thoracic Surgery Instruments - Aortic Clamp DeBakeys Pattern - Specification

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MHD 6 (00211)	CARDIOVASCULAR IMPLANTS AND ARTIFICIAL ORGANS - REQUIREMENTS FOR SINGLE-USE TUBING PACKS FOR CARDIOPULMONARY BYPASS AND EXTRACORPOREAL MEMBRANE OXYGENATION ECMO
2	MHD 6 (00213) Revision of: IS 7199:2016	CARDIOVASCULAR IMPLANTS AND ARTIFICIAL ORGANS --- BLOOD-GAS EXCHANGERS OXYGENATORS First Revision
3	MHD 6 (00214) Revision of: IS/ISO 8637:2010	Cardiovascular Implants and extracorporeal systems --- Haemodialysers Haemodiafilters Haemofilters and Haemoconcentrators First Revision
4	MHD 6 (00215) Revision of: IS/ISO 8638:2010	CARDIOVASCULAR IMPLANTS AND EXTRACORPOREAL SYSTEMS -- EXTRACORPOREAL BLOOD CIRCUIT FOR HAEMODIALYSERS HAEMODIAFILTERS AND HAEMOFILTERS First Revision
5	MHD 6 (00217) Revision of: IS/ISO 15674:2016	CARDIOVASCULAR IMPLANTS AND ARTIFICIAL ORGANS - HARD-SHELL CARDIOTOMY VENOUS RESERVOIR SYSTEMS WITH WITHOUT FILTER AND SOFT VENOUS RESERVOIR BAGS First Revision
6	MHD 6 (00216) Revision of: IS/ISO 13960:2010	CARDIOVASCULAR IMPLANTS AND EXTRACORPOREAL SYSTEMS - PLASMAFILTERS First Revision
7	MHD 6 (10382)	CARDIOVASCULAR IMPLANTS ---ENDOVASCULAR DEVICES PART 2 VASCULAR STENTS
8	MHD 6 (10383)	CARDIOVASCULAR IMPLANTS ---ENDOVASCULAR DEVICES PART 3 VENA CAVA FILTERS
9	MHD 6 (11596) Revision of: IS 7199:2016	Cardiovascular implants and artificial organs Blood-gas exchangers oxygenators Second Revision
10	MHD 6 (11598) Revision of: IS/ISO 15674:2016	Cardiovascular implants and artificial organs Hard-shell cardiotomyvenous reservoir systems withwithout filter and soft venous reservoir bags Second Revision
11	MHD 6 (12971)	Cardiovascular implants and artificial organs Bloodtissue contact surface modifications for extracorporeal perfusion system
12	MHD 6 (12972)	Concentrates for haemodialysis and related therapies
13	MHD 6 (12973)	Water for haemodialysis and related therapies
14	MHD 6 (12974) Revision of: IS/ISO 15676:2005	Cardiovascular implants and artificial organs Requirements for single-use tubing packs for cardiopulmonary bypass and extracorporeal membrane oxygenation ECMO First revision
15	MHD 6 (12975)	Guidance for the preparation and quality management of fluids for haemodialysis and related therapies
16	MHD 6 (13122)	Cardiovascular implants and extracorporeal systems Vascular prostheses Tubular vascular grafts and vascular patches
17	MHD 6 (13124)	Cardiovascular implants and extracorporeal systems Vascular Device-drug combination products Part 1 General requirements
18	MHD 6 (13125)	Cardiovascular implants and artificial organs - Cardiopulmonary bypass systems - Arterial blood line filters
19	MHD 6 (13126)	Cardiovascular implants and extracorporeal systems Cardiopulmonary bypass systems Venous bubble traps
20	MHD 6 (13127)	Cardiovascular implants and extracorporeal systems Centrifugal blood pumps
21	MHD 6 (13128) Revision of: IS/ISO 25539:2017	Cardiovascular implants - Endovascular devices - Part 1 Endovascular prostheses
22	MHD 6 (13462)	Cardiovascular implants -- Cardiac valve prostheses -- Part 2 Surgically implanted heart valve substitutes
23	MHD 6 (13463)	Cardiovascular implants Cardiac valve prostheses Part 3 Heart valve substitutes implanted by Trans-catheter techniques
24	MHD 6 (14326)	Extracorporeal systems for blood purification - Part 1 Haemodialysers haemodiafilters haemofilters and haemoconcentrators
25	MHD 6 (14327)	Extracorporeal systems for blood purification - Part 2 Extracorporeal blood circuit for haemodialysers haemodiafilters and haemofilters
26	MHD 6 (14328)	Extracorporeal systems for blood purification - Part 3 Plasmafilters
27	MHD 6 (15598)	Preparation and quality management of fluids for haemodialysis and related therapies Part 1 General requirements
28	MHD 6 (15599)	Preparation and quality management of fluids for haemodialysis and related therapies Part 2 Water treatment equipment for haemodialysis applications and related therapies
29	MHD 6 (15600)	Preparation and quality management of fluids for haemodialysis and related therapies Part 3 Water

		for haemodialysis and related therapies
30	MHD 6 (15601)	Preparation and quality management of fluids for haemodialysis and related therapies Part 4 Concentrates for haemodialysis and related therapies
31	MHD 6 (15602)	Preparation and quality management of fluids for haemodialysis and related therapies Part 5 Quality of dialysis fluid for haemodialysis and related therapies
32	MHD 6 (15780)	Cardiovascular implants and extracorporeal systems Cardiac valve repair devices
33	MHD 6 (17400)	Cardiovascular implants and extracorporeal systems Vascular device-drug combination products Part 2 Local regulatory information
34	MHD 6 (17401)	Cardiovascular implants and artificial organs Checklists for use of extracorporeal circulation equipment
35	MHD 6 (17403)	Implants for surgery Cardiac pacemakers Part 2 Reporting of clinical performance of populations of pulse generators or leads
36	MHD 6 (17404)	Implants for surgery Cardiac pacemakers Part 3 Low-profile connectors IS-1 for implantable pacemakers
37	MHD 6 (17406)	Cardiac defibrillators Connector assembly DF-1 for implantable defibrillators Dimensions and test requirements
38	MHD 6 (17407)	Cardiac rhythm management devices- Symbols to be used with cardiac rhythm management device labels and information to be supplied General requirements
39	MHD 6 (17409)	Active implantable medical devices Four-pole connector system for implantable cardiac rhythm management devices Dimensional and test requirements
40	MHD 6 (17438)	Implants for surgery Active Implantable Medical Devices Part 5 Circulatory Support Devices
41	MHD 6 (18158)	Cardiovascular Implants Cardiac Valve Prostheses Part 1 General Requirements
42	MHD 6 (18159) Revision of: IS/ISO 5840:2015	Cardiovascular Implants Cardiac Valve Prostheses Part 2 Surgically Implanted Heart Valve Substitute First Revision
43	MHD 6 (18160) Revision of: IS/ISO 5840:2013	Cardiovascular Implants Cardiac Valve Prostheses Part 3 Heart Valve Substitutes Implanted by Transcatheter Techniques First Revision
44	MHD 6 (18161) Revision of: IS/ISO 25539:2012	Cardiovascular Implants Endovascular Devices Part 2 Vascular Stents First Revision
45	MHD 6 (18162)	Evaluation of CPB Devices Relative to their Capabilities of Reducing the Transmission of Gaseous Microemboli GME to a Patient during Cardiopulmonary Bypass
46	MHD 6 (18163)	Active Implantable Medical Devices Electromagnetic Compatibility EMC Test Protocols for Implantable Cardiac Pacemakers Implantable Cardioverter Defibrillators and Cardiac Resynchronization Devices
47	MHD 6 (18164)	Implants for Surgery Active Implantable Medical Devices Part 6 Particular Requirements for Active Implantable Medical Devices Intended to Treat Tachyarrhythmia Including Implantable Defibrillators
48	MHD 6 (18165)	Cardiovascular Implants and Extracorporeal Systems Cardiovascular Absorbable Implants
49	MHD 6 (20911) Revision of: IS 7346:1987	Thoracic Surgery Instruments - Rib Raspatories - Specification
50	MHD 6 (20912) Revision of: IS 6395:1989	Thoracic Surgery Instruments - Auricle Clamps - Crafoords Pattern - Specification Second Revision
51	MHD 6 (20914) Revision of: IS 6442:1989	Thoracic Surgery Instruments - Rib Shears Tudor Edward s pattern - Specification Second Revision
52	MHD 6 (20915) Revision of: IS 6466:1989	Thoracic Surgery Instruments - Needle Holder - Specification Second Revision
53	MHD 6 (20916) Revision of: IS 6467:1989	Thoracic Surgery Instruments Periosteotome Rib Alexanders Pattern Specification Second Revision
54	MHD 6 (20917) Revision of: IS 6468:1989	Thoracic Surgery Instruments - Empyema Trocar Nelson s Pattern - Specification Second Revision
55	MHD 6 (20920) Revision of: IS 6778:1989	Thoracic Surgery Instruments - Lung Forceps Duval s Pattern - Specification Second Revision
56	MHD 6 (20921) Revision of: IS 6780:1989	Thoracic Surgery Instruments - Artery Forceps Robert s Pattern - Specification Second Revision
57	MHD 6 (20922) Revision of: IS 7355:1987	Specification for Spreader Rib Tuffiers Pattern Adult Size Second Revision
58	MHD 6 (20924) Revision of: IS 7379:1987	Thoracic Surgery Instruments - Straight and Angular Patent Ductus Clamps - Specification Second Revision
59	MHD 6 (20925) Revision of: IS 7382:1987	Thoracic Surgery Instruments - Rib Shears Thomas Pattern - Specification Second Revision

60	MHD 6 (20927) Revision of: IS 7434:1987	Thoracic Surgery Instruments - Scapula Retractor - Specification Second Revision
61	MHD 6 (20928) Revision of: IS 7972:1987	Thoracic Surgery Instruments - Dissecting Scissors - Specification Second Revision
62	MHD 6 (20930) Revision of: IS 8549:1991	Thoracic Surgery Instruments - Angled Scissors - Specification Second Revision
63	MHD 6 (20932) Revision of: IS 9950:1981	Thoracic Surgery Instruments - Vascular Clamp - Specification First Revision
64	MHD 6 (20933) Revision of: IS 9951:1981	Thoracic Surgery Instruments - Blunt End Scissors - Specification First Revision
65	MHD 6 (20934) Revision of: IS 9987:1981	Thoracic Surgery Instruments - Multipurpose Clamps - Specification First Revision
66	MHD 6 (20935) Revision of: IS 11566:1986	Specification for Valve Retractors First Revision
67	MHD 6 (21272)	Cardiovascular Implants Endovascular Devices Part 4 Application of ISO 17327-1 for Coated Endovascular Devices
68	MHD 6 (23653) Revision of: IS 17751:2022	Cardiovascular Implants and Extracorporeal Systems Vascular Device-Drug Combination Products Part 2 Local Regulatory Information First Revision
69	MHD 6 (24992)	Sizing parameters of surgical valve prostheses Requirements regarding the application of ISO 5840-2
70	MHD 6 (24999)	Cardiovascular Implants and Artificial Organs Cannulae for Extracorporeal Circulation ISO 18193 2021 MOD
71	MHD 6 (25000)	Cardiovascular implants Transcatheter cardiac occluders ISO 22679 2021 MOD
72	MHD 6 (25002)	Implants for surgery Active implantable medical devices Part 4 Implantable infusion pump systems ISO 14708-4 2022 MOD
73	MHD 6 (26577) Revision of: IS 8345:1994	Thoracic Surgery Instruments Bulldog Clamps Specification
74	MHD 6 (26588) Revision of: IS 6436:1989	Thoracic Surgery Instruments Rib Spreader Finochietto s Pattern Adult Size Specification
75	MHD 6 (26591) Revision of: IS 10540:1991	Thoracic Surgery Instruments - Atrial Appendage Clamps Glovers Pattern - Specification
76	MHD 6 (26592) Revision of: IS 10541:1991	Thoracic Surgery Instruments - Vena cava Clamps Satinskys pattern - Specification
77	MHD 6 (26593) Revision of: IS 13940:1994	Cardiovascular Surgery Instruments Bulldog Clamp DeBakey Pattern Specification First Revision
78	MHD 6 (26594) Revision of: IS 7345:1994	Thoracic Surgery Instruments -Anastomosis forceps and Clamps - Specification
79	MHD 6 (26595) Revision of: IS 8317:1991	Cardiovascular Surgery Instruments Angled Vascular Clamps Specification
80	MHD 6 (26597) Revision of: IS 8890:1991	Thoracic Surgery Instruments -Bronchus Clamps - Specification

Total Published Standards:71 Total Standards Under development:87

Aspect Wise Report

Product : 60
Code of Practices : 7
Methods of Test : 3
Terminology : 0
Dimensions : 1
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 13878:1993 ISO 8638	Extra Corporeal Circuit For Haemodialysers Haemofilters And Haemoconcentrators
2	IS 13890:1994 ISO 8637	Haemodialysers Haemofilters and Haemoconcentrators
3	IS 13924:1994 ISO 5840	Cardiovascular Implants - Cardiac Valve - Prostheses
4	IS/ISO 13958:2014 ISO 13958 : 2014 ISO 13958 : 2014	Concentrates for Haemodialysis and Related Therapies
5	IS/ISO 13959:2014 ISO 13959 : 2014 ISO 13959 : 2014	Water for haemodialysis and related therapies
6	IS/ISO 13960:2010 ISO 13960 : 2010 ISO 13960 : 2010	Cardiovascular implants and extracorporeal systems - Plasmafilters First Revision
7	IS/ISO/TS 15539:2000 ISO/TS 15539:2000	Cardiovascular Implants -- EndovascuLar Prostheses
8	IS/ISO 23500:2014 ISO 23500 : 2014 ISO 23500 : 2014	Guidance for the preparation and quality management of fluids for haemodialysis and related therapies
9	IS/ISO 25539-2:2012 ISO 25539-2 : 2012 25539	Cardiovascular implants - Endovascular devices Part 2 vascular stents
10	IS/ISO 5840-2:2015 ISO 5840-2 : 2015	Cardiovascular Implants Cardiac Valve Prostheses Part 2 Surgically Implanted Heart Valve Substitutes
11	IS/ISO 5840-3:2013 ISO 5840-3 : 2013 â€˜ ISO 5840-3 : 2013	Cardiovascular Implants Cardiac Valve Prostheses Part 3 Heart Valve Substitutes Implanted by Trans-Catheter Techniques
12	IS/ISO 5840:2005 ISO 5840	Cardiovascular implants - Cardiac valve prostheses
13	IS 6779:1989	Thoracic Surgery Instruments - Forceps Dissecting and Ligature Mixter 39 s Pattern - Specification First Revision
14	IS 7971:1987	Tourniquet Cardiovascular Rumel-Belmont s Pattern
15	IS 8409:1991	Cardiovascular Surgery Instruments - Dilator Valve Tubb s Mitral Pattern
16	IS 8550:1977	Scissors angled on flat Potts Smith pattern
17	IS/ISO 8637-2004:2010 ISO 8637:2010 ISO 8637:2010	Cardiovascular implants and extracorporeal systems - Haemodialysers haemodiafilters haemofilters and haemoconcentrators First Revision
18	IS/ISO 8638-2004:2010 ISO 8638 : 2010 ISO 8638 : 2010	Cardiovascular implants and extracorporeal systems - Extracorporeal blood circuit for haemodialysers haemodiafilters and haemofilters First Revision
19	IS 8898:1978	Clamp anastomosis Cooley s pattern
20	IS 9927:1981	Clamp anastomosis dale-femoral Popliteal s pattern

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10540:1991	Cardiovascular Surgery Instruments - Clamps Atrial Appendage Glover s Pattern - Shape and Dimensions
2	IS 10541:1991	Cardiovascular surgery instruments - Clamps vena cava satinsky pattern shape sizes and dimensions First Revision
3	IS 11566:2024	Thoracic Surgery Instruments Valve Retractors Specification First Revision
4	IS/ISO 12417-1:2015 ISO 12417-1 : 2015 IS/ISO 12417-1:2015	Cardiovascular Implants and Extracorporeal Systems Vascular Device-Drug Combination Products Part 1 General Requirements
5	IS 13940:2026	Cardiovascular Surgery Instruments Bulldog Clamp DeBakey Pattern Specification First Revision
6	IS/ISO 15674-2004:2016 ISO 15674 : 2016 IS/ISO 15674 : 2016	Cardiovascular implants and artificial organs - Hard - Shell cardiotomy venous reservoir systems With without Filter and soft venous reservoir bags Second Revision
7	IS/ISO 15675:2016 ISO 15675 : 2016 IS/ISO 15675:2016	Cardiovascular Implants and Artificial Organs Cardiopulmonary Bypass Systems Arterial Blood Line Filters
8	IS/ISO 15676:2016 ISO 15676 : 2016 ISO 10555-6:2015	Cardiovascular implants and artificial organs Requirements for single-use tubing packs for cardiopulmonary bypass and extracorporeal membrane oxygenation ECMO First revision
9	IS 17646 (Part 2):2021 IS/ISO 23500-2 : 2019 ISO/TR 22696:2020	Preparation and quality management of fluids for haemodialysis and related therapies Part 2 Water treatment equipment for haemodialysis applications and related therapies
10	IS 17709:2022 ISO 11318:2002 ISO 5744 : 2004	Cardiac defibrillators Connector assembly DF-1 for implantable defibrillators Dimensions and test requirements
11	IS 17712 (Part 3):2021 ISO 5841-3:2013	Implants for surgery Cardiac pacemakers Part 3 Low-profile connectors IS-1 for implantable pacemakers
12	IS 17745:2021 ISO 5910:2018 ISO 9008:1991	Cardiovascular implants and extracorporeal systems Cardiac valve repair devices
13	IS 17746:2021 ISO/IEC 17629:2014	Active implantable medical devices Four-pole connector system for implantable cardiac rhythm management devices Dimensional and test requirements
14	IS 17750 (Part 6):2022 ISO 14708-6:2019 ISO/IEC 7942-3: 1999	Implants for Surgery Active Implantable Medical Devices Part 6 Particular Requirements for Active Implantable Medical Devices Intended to Treat Tachyarrhythmia Including Implantable Defibrillators
15	IS 17750 (Part 4):2025	Implants for surgery Active implantable medical devices Part 4 Implantable infusion pump systems ISO 14708-4 2022 MOD
16	IS 17750 (Part 5):2021 ISO 14708-5:2020 ISO/IEC 23736-6: 2020	Implants for surgery Active Implantable Medical Devices Part 5 Circulatory Support Devices
17	IS 17751 (Part 2):2024 ISO/TR 12417-2	Cardiovascular Implants and Extracorporeal Systems Vascular Device-Drug Combination Products Part 2 Local Regulatory Information First Revision
18	IS 17840 (Part 3):2022 ISO 5840-3:2021 ISO 9276-3 :2008	Cardiovascular Implants Cardiac Valve Prostheses Part 3 Heart Valve Substitutes Implanted by Transcatheter Techniques First Revision
19	IS 17840 (Part 1):2022 5840-1:2021 ISO 8362-1:2018	Cardiovascular Implants Cardiac Valve Prostheses Part 1 General Requirements
20	IS 17841 (Part 4):2023 ISO 25539-4:2021 ISO 16457 : 2022	Cardiovascular Implants Endovascular Devices Part 4 Application of ISO 17327-1 for Coated Endovascular Devices
21	IS 17841 (Part 2):2022 ISO 25539:2020	Cardiovascular Implants Endovascular Devices Part 2 Vascular Stents First Revision

	ISO 14344:2010	
22	IS 17843:2022 ISO/TS 17137:2021 ISO 12749-1 : 2020	Cardiovascular Implants and Extracorporeal Systems Cardiovascular Absorbable Implants
23	IS/ISO 18241:2016 ISO 18241 : 2016 IS/ISO 18241:2016	Cardiovascular Implants and Extracorporeal Systems Cardiopulmonary Bypass Systems Venous Bubble Traps
24	IS/ISO 18242:2016 ISO 18242 : 2016 IS/ISO 18242:2016	Cardiovascular Implants and Extracorporeal Systems Centrifugal Blood Pumps
25	IS 18927:2024	Cardiovascular implants Transcatheter cardiac occluders ISO 22679 2021 MOD
26	IS 18974:2025	Cardiovascular Implants and Artificial Organs Cannulae for Extracorporeal Circulation ISO 18193 2021 MOD
27	IS/ISO 25539-1:2017 ISO 25539-1 : 2017 ISO 25539 : Part 1	Cardiovascular implants - Endovascular devices Part 1 endovascular prostheses First Revision
28	IS/ISO 25539-3:2011 ISO 25539-3 : 2011 ISO 25539-3 : 2011	Cardiovascular implants - Endovascular devices Part 3 vena cava filters
29	IS 6395:2024	Thoracic Surgery Instruments Auricle Clamps Crafoords Pattern Specification Second Revision
30	IS 6436:2026	Thoracic Surgery Instruments Rib Spreader Finochietto s Pattern Adult Size Specification
31	IS 6442:2024	Thoracic Surgery Instruments Rib Shears Tudor Edward s Pattern Specification Second Revision
32	IS 6466:2024	Thoracic Surgery Instruments Needle Holder Specification
33	IS 6467:2024	Thoracic Surgery Instruments Rib Periosteotome Alexander s Pattern Specification Second Revision
34	IS 6468:2024	Thoracic Surgery Instruments Empyema Trocar Nelson s Pattern Specification Second Revision
35	IS 6777:1989	Thoracic and cardiovascular surgery instruments - Forceps dissecting lung - Specification First Revision
36	IS 6778:2024	Thoracic Surgery Instruments Lung Forceps Duval s Pattern Specification Second Revision
37	IS 6780:2024	Thoracic Surgery Instruments Artery Forceps Robert s Pattern Specification Second Revision
38	IS/ISO 7198:2016 ISO 7198 : 2016 IS/ISO 7198:2016	Cardiovascular Implants and Extracorporeal Systems Vascular Prostheses Tubular Vascular Grafts and Vascular Patches
39	IS 7199 (Part 71991996):2016 ISO 7199 : 2016 ISO 7199 : 2016	Cardiovascular implants and artificial organs - Blood - Gas exchangers Oxygenators Second Revision
40	IS 7345:1994	Cardiovascular surgery instruments - Anastomosis forceps and clamps - Patterns shapes and dimensions Second Revision
41	IS 7346:2024	Thoracic Surgery Instruments Rib Raspatories Specification Second Revision
42	IS 7355:2024	Thoracic Surgery Instruments Rib Spreader Tuffier s Pattern Specification Second Revision
43	IS 7367:1987	Clamps Coarctation Potts Pattern Straight and Angular
44	IS 7379:2024	Thoracic Surgery Instruments Straight and Angular Patent Ductus Clamps Specification Second Revision
45	IS 7382:2024	Thoracic Surgery Instruments Rib Shears Thomas Pattern Specification Second Revision
46	IS 7399:1987	Knife Sternum Lebsche s Pattern

47	IS 7434:2024	Thoracic Surgery Instruments Scapula Retractor Specification Second Revision
48	IS 7972:2024	Thoracic Surgery Instruments Dissecting Scissors Specification Second Revision
49	IS 8317:2026	Cardiovascular Surgery Instruments Angled Vascular Clamps Specification
50	IS 8335:1991	Cardiovascular Surgery Instruments - Clamps Auricle Satinsky Pattern - Sizes Shape and Dimensions
51	IS 8345:2026	Thoracic Surgery Instruments Bulldog Clamps Specification
52	IS 8549:2024	Thoracic Surgery Instruments - Angled Scissors - Specification Second Revision
53	IS/ISO 8637-1:2017 ISO 8637-1:2017	Extracorporeal Systems for Blood Purification Part 1 Haemodialysers Haemodiafilters Haemofilters and Haemoconcentrators
54	IS/ISO 8637-2:2018 ISO 8637-2 : 2018 ISO 8637-2:2018	Extracorporeal Systems for Blood Purification Part 2 Extracorporeal Blood Circuit for Haemodialysers Haemodiafilters and Haemofilters
55	IS/ISO 8637-3:2018 ISO 5840-3 : 2018 ISO 8637-3:2018	Extracorporeal Systems for Blood Purification Part 3 Plasmafilters
56	IS 8890:1991	Thoracic surgery instruments - Clamps bronchus - Types shapes and dimensions First Revision
57	IS 9928:1981	Clamp Aortic DeBakey s Pattern Spoon Shaped angled Jaw
58	IS 9950:2024	Thoracic Surgery Instruments Vascular Clamp Specification First Revision
59	IS 9951:2024	Thoracic Surgery Instruments Blunt End Scissors Specification First Revision
60	IS 9987:2024	Thoracic Surgery Instruments Multipurpose Clamps Specification First Revision