### **BUREAU OF INDIAN STANDARDS**

### **Program of Work**

### MHD 1 : Surgical Instruments

Scope: To formulate Indian Standards for General, Pediatric, Urological, Gastrointestinal, and plastic

surgery instruments including endoscopic, laparoscopic and robotic surgery instruments and

hemostatic devices

Liaison: **ISO TC-170 (P):** Surgical instruments

### **Published Standards**

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10383 : 1982	Specification for scissors, nail,	December, 2016	-	Indigenous
	Reviewed In: 2016 curved on flat				
2	IS 10384 : 1982	Scissors, Bandage, Smith's Pattern	December, 2016	-	Indigenous
	Reviewed In: 2016				
3	IS 10414 : 1982	Specification for scissors, bowel	December, 2016	-	Indigenous
	Reviewed In: 2016				
4	IS 10445 : 1982	Specification for scissors, bandage	December, 2016	-	Indigenous
	Reviewed In: 2016	and clothing, angled to side			
5	IS 10599 : 1993	Surgical Instruments - Needle	December, 2016	-	Indigenous
	Reviewed In: 2016	Holders, Hegar's Pattern - Sizes,			
		Shape and Dimensions			
6	IS 10615 : 1983	Needle Holder, Bozemann's Pattern	March, 2017	-	Indigenous
	Reviewed In: 2017				
7	IS 10637 : 1992	Surgical instruments - Forceps,	January, 2016	-	Indigenous
	Reviewed In: 2016	spinter, Arthur's pattern Shape and			
		dimensions			
8	IS 10638 : 1983	Forceps, Sponge Holding,	December, 2016	-	Indigenous
	Reviewed In: 2016	Foerster's Pattern, Smooth or			
		Serrated Jaws			
9	IS 10984 : 1984	Scissors, Dissecting, Curved on	December, 2016	-	Indigenous
	Reviewed In: 2016	Flat, Pott's Pattern			
10	IS 11497 : 2014	Catheter, Foley's Rubber, for	January, 2019	-	Indigenous
	Reviewed In: 2019	Prolonged Urinary Drainage —			
		Specification			
11	IS 11502 : 1992	Surgical instruments - Forceps	March, 2018	-	Indigenous
	Reviewed In: 2018	tissue, adson - Browns patternshape			
10	IC 11545 1000	and dimensions (First Revision)	M 1 2010		τ 1'
12	IS 11545 : 1992	Surgical instruments - Haemostatic,	March, 2018	-	Indigenous
	Reviewed In: 2018	forceps, Adson's pattern - Shape			
13	IS 11558 : 1992	and dimensions	March, 2018		Indiannous
13		Surgical instruments - vessel,	March, 2018	-	Indigenous
	Reviewed III: 2018	forceps, Debakey's pattern - Sizes,			
14	IS 11595 : 1992	shape and dimensions Surgical instruments - Peritoneum,	March, 2018	+	Indigenous
14			Maich, 2018	-	margenous
	Reviewed In: 2018	forceps, McKulicz's pattern - Shape and dimensions			
15	IS 116/0 (Part 1).	Retractor, General Surgery - Part 1	December, 2016	+	Indigenous
13	10 11040 (Fall 1):	incuración, Ocherar Surgery - Part I	December, 2010	I - I	margenous

	1986	: Schonborn's Pattern		1	1
	Reviewed In: 2016				
16	IS 11640 (Part 2):	Retractor, General Surgery - Part 2	March, 2018	-	Indigenous
	1987	: Kocher's Pattern			
	Reviewed In: 2018				
17	IS 11640 (Part 3):	Retractor - Part 3 : Israel's Pattern	March, 2018	-	Indigenous
	1987				
	Reviewed In: 2018				
18	IS 11640 (Part 4):	Retractor - Part 4 : Abdominal,	March, 2018	-	Indigenous
	1987	Fritsch's Pattern			
	Reviewed In: 2018				
19	IS 11640 (Part 5):	Retractor - Part 5 Korte's Pattern	March, 2018	-	Indigenous
	1987				
	Reviewed In: 2018				
20	IS 11640 (Part 6):	Retractor, General Surgery - Part 6	March, 2018	-	Indigenous
	1987	: Volkmann's Pattern			
	Reviewed In: 2018				
21	1 Total Control of the Control of th	Retractor - Part 7 : Abdominal and	March, 2018	-	Indigenous
	1987	Liver, Mikulicz's Pattern			
	Reviewed In: 2018				
22	IS 12103 : 1987	Specification for skin graft	March, 2018	-	Indigenous
	Reviewed In: 2018				
23	IS 12815 : 1989	Surgical instruments - Knife	January, 2016	-	Indigenous
	Reviewed In: 2016				
24	IS 12822 : 1989	Surgical Instruments - Forceps	January, 2016	-	Indigenous
	Reviewed In: 2016				
25	IS 12841 (Part 1):	Surgical Instruments - Needle	February, 2016	-	Indigenous
		Holders - Part 1 : Mathieu's Pattern			
	Reviewed In: 2016				
26	IS 12841 (Part 2):	Surgical Instruments - Needle	March, 2016	-	Indigenous
	1989	Holders - Part 2 : With Carbide			
	Reviewed In: 2016				
27	IS 12841 (Part 3):	Surgical Instruments - Needle	March, 2016	-	Indigenous
	1989	Holders - Part 3 : Heaney's Pattern			
	Reviewed In: 2016		2016		<del></del>
28	IS 12841 (Part 4):	Surgical Instruments - Needle	March, 2016	-	Indigenous
	1989	Holders - Part 4 : with Carbide			
	Reviewed In: 2016	·	D 1 2016		<del></del>
29		Surgical instruments - Suture - Clip	December, 2016	-	Indigenous
	Reviewed In: 2016	applying forceps, wachenfeld type			
20	IC 12100 1001	shape, dimensions and mass	D 1 2016		T 1'
30	IS 13198 : 1991	Surgical instruments - Trocar	December, 2016	-	Indigenous
	Reviewed In: 2016	holding forceps, vogel type -			
21	IS/ISO 13402 : 1995	Shape, dimensions and mass	Eahman 2010	1	Identical and a selection
31		Surgical and dental hand instruments - Determination of	February, 2019	-	Identical under single
	ISO 13402:1995				numbering
	Reviewed In: 2019	resistance against autoclaving,			
22	ISO 13402: 1995	Corrosion and thermal exposure			Identical under dual
32	IS 15732 (Part 1):	Endoscopes - Medical Endoscopes	-	_	
	2018 ISO 8600-1 : 2015	and Endotherapy Devices Part 1			numbering
		General Requirements ( First Revision)			
22	ISO 8600-1			+	Identical under dual
33	IS 15732 (Part 2): 2019	Endoscopes - Medical endoscopes and endotherapy devices: Part 2		_	
	ISO 8600-2 : 2015	particular requirements for rigid			numbering
34	8600-2:2015 IS 15732 (Part 3):	bronchoscopes Optics and photonics - Medical	November, 2016	+	Identical under dual
)4	2006	endoscopes and endotherapy	movellider, 2010	_	
	ISO 8600-3	devices: Part 3 determination of			numbering
	150 6000-3	devices, i art 3 determination of		1	

ı	lp : 11 2016	la 1, a		1	I
		field of view and direction of view			
25	ISO 8600-3: 1997	of endoscopes with optics			Tdood on london dood
35	IS 15732 (Part 4):	Endoscopes - Medical endoscopes		-	Identical under dual
	2021	and endotherapy devices- Part 4:			numbering
	ISO 8600-4:2014	Determination of maximum width			
	ISO 8600-4:2014	of insertion portion (First			
26	10.15522 (B. +5)	Revision)			71 1 1 1
36	IS 15732 (Part 7):	Endoscopes - Medical endoscopes		-	Identical under dual
	2019	and endotherapy devices - Part 7:			numbering
	ISO 8600-7 : 2012	Basic requirements for medical			
	ISO 8600-7: 2012	endoscopes of water-resistant type	D 1 2016		7 11
37	IS 3318 : 1965	General requirements for surgical	December, 2016	1	Indigenous
	Reviewed In: 2016	scalpels and knives			
38	IS 3319 : 1995	Blades, surgical, detachable (Bard	January, 2016	1	Indigenous
	Reviewed In: 2016	Parker Type) and handles -			
		Specification (Fourth Revision)			
39	IS 3320 : 1973	Specification for surgical scalpels	December, 2016	1	Indigenous
<u></u>	Reviewed In: 2016	(First Revision)		-	<b>+</b> • • • • • • • • • • • • • • • • • • •
40	IS 3642 (Part 1):	Surgical instruments -	December, 2016	-	Identical under dual
	1990	Specification: Part 1 non - Cutting,			numbering
	ISO 7151	articulated instruments (Second			
	Reviewed In: 2016	Revision)			
	ISO 7740: 1985				
41	IS 3643 : 1992	Surgical instruments - Dissecting	March, 2018	-	Indigenous
	Reviewed In: 2018	forceps (Serrated And Toothed) -			
		Shapes and dimensions (First			
<u></u>		Revision)			
42	IS 3644 : 1992	Surgical instruments - Artery	March, 2018	-	Indigenous
	Reviewed In: 2018	forceps Halsted's Mosquito pattern			
		- Shape and dimensions			
43	IS 3645 : 1992	Surgical instruments - Artery	March, 2018	-	Indigenous
	Reviewed In: 2018	forceps Spencer Wells pattern -			
<u> </u>		Size, shape and dimensions			
44	IS 3759 : 1987	Specification for blades, skin	December, 2021	-	Indigenous
1.5	Reviewed In: 2021	grafting (First Revision)	D 1 2016		
45	IS B3759 : 1987	Specification for blades, skin	December, 2016	-	
1.5	Reviewed In: 2016	grafting	D 1 2016		7 11
46	IS 3767 : 1966	Specification for hook, skin, gillies	December, 2016	1	Indigenous
L.	Reviewed In: 2016	pattern	D 1 2016		7 11
47	IS 3787 : 1966	Specification for gag, mouth, cleft	December, 2016	-	Indigenous
40	Reviewed In : 2016	palate	1 2022	1	T 1'
48	IS 4085 : 1967	Specification for knives,	January, 2022	1	Indigenous
10	Reviewed In: 2022	amputating	B 1 2011	1	T "
49	IS 4094 : 1967	Forceps, Sterilizer, Cheatle's	December, 2016	1	Indigenous
	Reviewed In : 2016	Pattern	D 1 2016	1	T 1'
50	IS 4244 : 1967	Specification for retractors, skin,	December, 2016	1	Indigenous
	Reviewed In : 2016	double ended		1	T 1'
51	IS 4245 : 1967	Specification for needle holder		1	Indigenous
	Reviewed In: 2017	(Gillies) combined with scissors,			
50	IC 4075 1067	for plastic surgery	Daga1 2001	1	T11
52	IS 4275 : 1967	Scissors, Kilner's for Plastic	December, 2021	1	Indigenous
50	Reviewed In : 2021	Surgery Science McIndon's for Plactic	Daga1 2016	1	T 11
53	IS 4281 : 1967	Scissors, McIndoe's, for Plastic	December, 2016	1	Indigenous
51	Reviewed In : 2016	Surgery Surgical instruments Dissecting	March 2010		Indiana
54	IS 4282 : 1992	Surgical instruments - Dissecting	March, 2018	-	Indigenous
	Reviewed In: 2018	forceps, plastic surgery - Shapes			
55	IS 4490 : 1968	and dimensions (First Revision)	Daggarden 2016	1	To d! can c
55		Forceps, Dilating, Trousseau's	December, 2016	1	Indigenous
<u> </u>	Reviewed In: 2016	<del>                                     </del>		+	+

56	IS 4513 : 1968 Reviewed In : 2016	Specification for scissors, surgical dressing and stitch	December, 2016	1	Indigenous
57	IS 4587 : 1968 Reviewed In : 2016	Specification for raspatories, cleft palate, for plastic surgery	December, 2016	1	Indigenous
58	IS 5738 : 1970 Reviewed In : 2016	Specification for cystoscope	December, 2016	-	Indigenous
59	IS 5750 : 1970 Reviewed In : 2016	Specification for Sigmoidoscope	December, 2016	1	Indigenous
60			Indigenous		
61	IS 6435 : 1971 Reviewed In : 2016	Specification for strippers, tendon	December, 2016	-	Indigenous
62	IS 6437 : 1970 Reviewed In : 2016	Specification for stripper, fascia	December, 2016	-	Indigenous
63	IS 6989 : 1973 Reviewed In : 2023	Specification for chisel, post - Mortem	March, 2023	-	Indigenous
64	IS 6990 : 1973 Reviewed In : 2018	Specification for knife, brain, post - Mortem	March, 2018	-	Indigenous
65	IS 6996 : 1973 Reviewed In : 2018	Specification for knife, cartilage	March, 2018	-	Indigenous
66			Identical under single numbering		
67	IS 7388 : 1992 Reviewed In : 2018	Surgical instruments - Forceps,tissue,Allis pattern - Shape, size and dimensions	March, 2018	-	Indigenous
68	IS 7501 : 1974 Reviewed In : 2018	Specification for speculum, rectal, kellys pattern	March, 2018	-	Indigenous
69	IS 7502 : 1974 Reviewed In : 2018	Clamp, Intestine, Kocher's Pattern	March, 2018	-	Indigenous
70	IS 7507 : 1974 Reviewed In : 2018	Specification for forceps, stone, bladder	March, 2018	-	Indigenous
71	IS 7521 : 1974 Reviewed In : 2018	Dissector, Kocher's Pattern	March, 2018	-	Indigenous
72	IS 7522 : 1975 Reviewed In : 2018	Retractor, Abdominal, Morris' Pattern	March, 2018	-	Indigenous
73	IS 7531 : 1990 Reviewed In : 2018	Surgical instruments - Corrosion resistance of stainless steel surgical instruments - Methods of tests (First Revision)	March, 2018	-	Indigenous
74	IS 7561 : 1992 Reviewed In : 2018	Surgical instruments - Forceps, Gallstone, Desjardin's pattern - Shape and dimensions	March, 2018	-	Indigenous
75	IS 7566 : 1992 Reviewed In : 2018	Surgical instruments - Forceps, spring clip compressing, Michel's pattern - Shape and dimensions	March, 2018	-	Indigenous
76	IS 7579 : 1992 Reviewed In : 2018	Surgical instruments - Forceps,intestine holding, Denis Browne's pattern - Shape and dimensions	March, 2018	-	Indigenous
77	IS 7628 : 1975 Reviewed In : 2018	Clamp, Stomach, Moynihan's Pattern	March, 2018	-	Indigenous
78	IS 7665 : 1975 Reviewed In : 2018	Clamp, Intestine, Crushing, Lever Action, Payr's Pattern	March, 2018	-	Indigenous
79	IS/ISO 7741 : 1986 ISO 7741 : 1986 IS/ISO 7741:1986	Instruments for surgery - Scissors and shears - General requirements and test methods		-	Identical under single numbering

80	IS 7858 : 1991 Reviewed In : 2018	Surgical microscope - Specification (First Revision)	March, 2018	1	Indigenous
81	IS 7870 : 1992	Surgical instruments -	March, 2018	-	Indigenous
	Reviewed In: 2018	Needle,holder,Mayo-Hegar's and Crile-Wood's Patterns - Shape and			
82	IS 7892 : 1975	dimensions Specification for Retractor, double	March, 2018	-	Indigenous
	Reviewed In: 2018	and single, blunt hooks	,		č
83	IS 7893 : 1992	Surgical instruments - Forceps,	March, 2018	-	Indigenous
	Reviewed In: 2018	towel, Backhaus's pattern - Shape. size and dimensions			
84	IS 7912 : 1975	Scoop, Stanley Boyd's Pattern	March, 2018	-	Indigenous
	Reviewed In: 2018				
85	IS 7980 : 1976	Specification for handle of skin	March, 2018	-	Indigenous
0.6	Reviewed In: 2018	grafting blade			· · · ·
86	IS 7994 : 1976 Reviewed In : 2018	Needle Holder, Barron's Pattern	March, 2018	-	Indigenous
87	IS 8031 : 1976	Dissector, Watson Cheyne's	March, 2018	-	Indigenous
0.0	Reviewed In : 2018	Pattern Supplied in a transport of Automotive Control of the Contr	Man-1- 2010		Ta. 32
88	IS 8040 : 1992 Reviewed In : 2018	Surgical instruments - Artery, forceps,Kocher's pattern - Shape	March, 2018	-	Indigenous
	Reviewed III: 2018	and dimensions			
89	IS 8253 : 1976	Lever, Bone, Bristow's Pattern	March, 2018	-	Indigenous
	Reviewed In: 2018				
90	IS 8340 : 1977	Needle, Aneurism, Syme's Pattern	March, 2018	-	Indigenous
	Reviewed In: 2018				
91	IS 8341 : 1977	Retractor, Goitre, Joll's Pattern	March, 2018	=	Indigenous
	Reviewed In: 2018				
92	IS 8372 : 1977 Reviewed In : 2018	Retractor, Alae, Kilner's Pattern	March, 2018	-	Indigenous
93	IS 8377 : 1977	Bougie, Lister's and Clutton's	March, 2018	_	Indigenous
	Reviewed In: 2018	Patterns	Waren, 2010		margenous
94	IS 8424 : 1977	Specification for Gag, Mouth,	March, 2018	-	Indigenous
	Reviewed In: 2018	Lane's Pattern			C
95	IS 8583 : 1991	Surgical instruments - Gall duct	March, 2018	-	Indigenous
	Reviewed In: 2018				
96	IS 8584 : 1992	Surgical instruments - Peritonium,	March, 2018	=	Indigenous
	Reviewed In: 2018	forceps, Babcock's pattern -			
07	IC 0505 1077	Shapes, sizes and dimensions	Daga-lan 2016		Ta. 32
97	IS 8585 : 1977 Reviewed In : 2016	Specification for bougie,	December, 2016	-	Indigenous
98	IS 8586 : 1977	oesophageal Suction Tube, Poole's Pattern	December, 2016	_	Indigenous
30	Reviewed In : 2016	· ·	December, 2010		margenous
99	IS 8853 : 1978	Specification for retractor, cheek	December, 2016	-	Indigenous
	Reviewed In: 2016	-			6 <del></del>
100	IS 8854 : 1978	Retractor, Czerny's Pattern	December, 2016	-	Indigenous
	Reviewed In: 2016				
101	IS 8855 : 1978	Retractor, Langenbeck's Pattern	December, 2016	1	Indigenous
	Reviewed In: 2016				
102	IS 8889 : 1992	Surgical Instruments - Forceps,	March, 2018	-	Indigenous
	Reviewed In: 2018	Stone, Kidney, Randall's Pattern -			
103	IS 8965 : 1978	Shapes and Dimensions Retractor, Deaver's Pattern	December, 2016	+	Indigenous
103	Reviewed In : 2016	·	December, 2010	-	margenous
104	IS 9144 : 1979	Specifications for Director and	December, 2016	+ -	Indigenous
107	Reviewed In : 2016	-	2000111001, 2010		margonous
105	IS 9145 : 1979	Dilator, Rectal, Hegar's Pattern	December, 2016	-	Indigenous
L	Reviewed In: 2016				
106	IS 9146 : 1979	Scissors, Dissecting, Straight and	December, 2016	-	Indigenous
i	I	1		ı	-

	Reviewed In: 2016	Curved on Flat, Mayo's Pattern			
107	IS 9149 : 1979	Specification for probe with eye	December, 2016	-	Indigenous
	Reviewed In: 2016				
108	IS 9150 : 1979	Specification for cylinder,	December, 2016	=	Indigenous
	Reviewed In: 2016	dermabraison plastic surgery			
109	IS 9165 (Part 1):	Surgical instruments - Needles,	March, 2018	-	Indigenous
	1992	suture: Part 1 specification (First			
	Reviewed In: 2018	Revision)			
110	IS 9165 (Part 2):	Surgical instruments - Needles,	March, 2018	1	Indigenous
	1992	suture: Part 2 eyed needles - Sizes,			
	Reviewed In: 2018	shapes and dimensions			
111	IS 9183 : 1979	Suction Tube, Magill's Pattern	March, 2018	-	Indigenous
	Reviewed In: 2018				
112	IS 9184 : 1979	Specification for forceps,	December, 2016	-	Indigenous
	Reviewed In: 2016	disimpaction, maxillary, for plastic			
		surgery			
113	IS 9416 : 1980	Specification for bladder sound	May, 2023	-	Indigenous
	Reviewed In: 2023				
114	IS 9649 : 1980	Specification for introducer,	March, 2018	-	Indigenous
	Reviewed In: 2018	catheter, urethral			
115	IS 9650 : 1980	Hook, Joseph's Pattern	March, 2018	-	Indigenous
	Reviewed In: 2018				
116	IS 9651 : 1980	Clamp, Intestine Holding,	March, 2018	-	Indigenous
	Reviewed In: 2018	Schoemaker's Pattern			
117		Specification for microtome knives	March, 2018	-	Indigenous
	Reviewed In: 2018				

## **Standards under Development**

	Projects Approved				
SI. No.	Doc No.	Title			
1	MHD 1 (25219)	Laparoscopic devices - Hand held instruments			
2	MHD 1 (25220)	Surgical Stapler			
3	MHD 1 (25221)	Compression Therapy Devices			

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

	Drafts Standards in WC Stage			
SI. No.	Doc No.	Title		
1	MHD 1 (26143)	Endoscopes - Medical endoscopes and endotherapy devices Part 3 Determination of field of view		
		and direction of view of endoscopes with optics First Revision		

	Draft Standards Completed WC Stage				
SI. No.	Doc No.	Title			
1	MHD 1 (21040)	Surgical Instrument - Scalpel			
2	MHD 1 (25222)	Optics and photonics Medical endoscopes and endotherapy devices Part 5 Determination of			
		optical resolution of rigid endoscopes with optics			
3	MHD 1 (25232)	Medical endoscopes and endotherapy devices Part 6 Vocabulary			
4	MHD 1 (25233)	Medical endoscopes and endotherapy devices Part 8 Particular requirements for capsule			
		endoscopes			
5	MHD 1 (25736)	Plastic Surgery Instruments - Craniofacial - Cleft Palate Raspatory First Revision			

Finalized Draft Indian Standard			
SI. No.	SI. No. Doc No. Title		
No Records Found			

	Finalized Draft Indian Standards under Print				
SI. No.	Doc No.	Title			
1	MHD 1 (21041) Revision	Skin grafting blade			
	of: IS 3759:1987				
2	MHD 1 (22077) Revision	Autopsy Instruments - Brain Knife			
	of: IS 6990:1973				
3	MHD 1 (22078) Revision	Autopsy Instruments - Chisel			
	of: IS 6989:1973				
4	MHD 1 (22284) Revision	Plastic Surgery Instruments - Kilner Scissors			
	of: IS 4275:1967				
5	MHD 1 (22318) Revision	Autopsy Instruments - Amputation Knife			
	of: IS 4085:1967				
6	MHD 1 (24072) Revision	Autopsy Instruments - Cartilage Knife			
	of: IS 6996:1973				
7	MHD 1 (24170) Revision	Autopsy Instruments - Knife			
	of: IS 12815:1989				
8	MHD 1 (24248) Revision	Autopsy Instruments - Bowel Scissors			
	of: IS 10414:1982				
9	MHD 1 (24258) Revision	Plastic Surgery Instruments - McIndoe Scissors			
	of: IS 4281:1967				

Total Published Standards:117 Total Standards Under development:18

### **Aspect Wise Report**

Product: 114
Code of Practices: 0
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 10104 (Part 1): 1981	Needle suture Part 1 curved 1 4 3 8 1 2 and 5 8 circle
2	IS 13809 (Part 1): 1993	Quality management procedures for diagnostic and blood transfusion services - guidelines Part 1 Up to 30-bedded hospitals
3	IS 3317 : 2004 Reviewed In : 2011	Hypodermic Needles-reusable Type-specification
4	IS 3642 : 1978	General requirements for surgical instruments
5	IS 4089 : 1967 Reviewed In : 2011	Forceps Clip Removing Michel Pattern
6	IS 7120 : 1973	Handles for surgical blades detachable Bard Parker type

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

SI. No.	IS No. & Year	Title
1	IS 10383 : 1982	Specification for scissors nail curved on flat
	Reviewed In: 2016	•
2	IS 10384 : 1982	Scissors Bandage Smith s Pattern
	Reviewed In: 2016	č
3	IS 10414 : 1982	Specification for scissors bowel
	Reviewed In: 2016	
4	IS 10445 : 1982	Specification for scissors bandage and clothing angled to side
	Reviewed In: 2016	
5	IS 10599 : 1993	Surgical Instruments - Needle Holders Hegar s Pattern - Sizes Shape and Dimensions
	Reviewed In: 2016	
6	IS 10615 : 1983	Needle Holder Bozemann s Pattern
	Reviewed In: 2017	1 (0000 1101001 202011111111 ) 1 010111
7	IS 10637 : 1992	Surgical instruments - Forceps spinter Arthur s pattern Shape and dimensions
<b>'</b>	Reviewed In: 2016	Surgicul mortuments i orceps spinter i traitai s pattern onape and amiensions
8	IS 10638 : 1983	Forceps Sponge Holding Foerster's Pattern Smooth or Serrated Jaws
	Reviewed In: 2016	1 oreeps sponge froming 1 oerster 3 1 attern smooth or serrated saws
9	IS 10984 : 1984	Scissors Dissecting Curved on Flat Pott s Pattern
	Reviewed In : 2016	Seissors Dissecting Curved on Flat Fott 3 Fattern
10	IS 11497 : 2014	Catheter Foley s Rubber for Prolonged Urinary Drainage Specification
10	Reviewed In: 2019	Caulcol Foley & Rabbel for Floringea Crimary Drainage opermeation
11	IS 11502 : 1992	Surgical instruments - Forceps tissue adson - Browns patternshape and dimensions First Revision
11	Reviewed In : 2018	Surgical instruments 1 ofceps tissue auson Browns patternshape and difficultions 1 hist revision
12	IS 11545 : 1992	Surgical instruments - Haemostatic forceps Adson s pattern - Shape and dimensions
12	Reviewed In : 2018	Surgical instruments - Haemostatic forceps Adson's pattern - Shape and dimensions
13	IS 11558 : 1992	Surgical instruments - vessel forceps Debakey s pattern - Sizes shape and dimensions
13	Reviewed In : 2018	Surgical instruments - vessel forceps becakey s pattern - Sizes shape and difficultions
14	IS 11595 : 1992	Surgical instruments - Peritoneum forceps McKulicz s pattern - Shape and dimensions
17	Reviewed In : 2018	Surgical instruments - 1 entoneum forceps werkunez s pattern - snape and unionsions
15	IS 11640 (Part 1): 1986	Retractor General Surgery - Part 1 Schonborn s Pattern
13	Reviewed In : 2016	Retractor General Surgery - 1 art 1 Schollooth \$1 attern
16	IS 11640 (Part 2) : 1987	Retractor General Surgery - Part 2 Kocher s Pattern
10	Reviewed In : 2018	Retractor General Surgery 1 art 2 Roener 31 attern
17	IS 11640 (Part 3): 1987	Retractor - Part 3 Israel s Pattern
1,	Reviewed In : 2018	Retractor Tart 5 Israel 5 Lattern
18	IS 11640 (Part 4): 1987	Retractor - Part 4 Abdominal Fritsch s Pattern
10	Reviewed In : 2018	Retractor 1 art + 7 todominar i 11tsen s i attern
19	IS 11640 (Part 5): 1987	Retractor - Part 5 Korte s Pattern
17	Reviewed In: 2018	reductor Tult 5 Rotte 5 Luttern
20	IS 11640 (Part 6): 1987	Retractor General Surgery - Part 6 Volkmann s Pattern
1 ~~	Reviewed In: 2018	Telline of Control of Continuing of Action
21	IS 11640 (Part 7): 1987	Retractor - Part 7 Abdominal and Liver Mikulicz s Pattern
	Reviewed In : 2018	reductor Ture, redominal and Diver minding of autom
22	IS 12103 : 1987	Specification for skin graft expander
	Reviewed In : 2018	Specification for skin graft expander
23	IS 12815 : 1989	Surgical instruments - Knife autopsy - Specification
23	Reviewed In: 2016	Surgicul instruments Trime autopsy Specification
24	IS 12822 : 1989	Surgical Instruments - Forceps Intestinal Mayo-Robson s Pattern
	Reviewed In: 2016	Surgical instruments of Groups intestinal mayo Rosson's futtorn
25	IS 12841 (Part 1): 1989	Surgical Instruments - Needle Holders - Part 1 Mathieu s Pattern
	Reviewed In : 2016	Sargical Instruments - record fronters - rate 1 waterned \$1 attern
26	IS 12841 (Part 2) : 1989	Surgical Instruments - Needle Holders - Part 2 With Carbide Inserts Stratte s Pattern
20	Reviewed In : 2016	Surgress instruments Treedic Holders Turt 2 With Carolice inserts Strate STattern
27	IS 12841 (Part 3): 1989	Surgical Instruments - Needle Holders - Part 3 Heaney s Pattern
	Reviewed In : 2016	ourgrounding reconcilioners fart 5 fically 81 attern
28	IS 12841 (Part 4): 1989	Surgical Instruments - Needle Holders - Part 4 with Carbide Inserts Debakey s Pattern
I 20	15 12071 (1 alt 4) . 1909	Surgical institutions - receipt floriders - 1 art 4 with Calvide histris Devakey 8 r attern

I	Reviewed In: 2016	
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