## **BUREAU OF INDIAN STANDARDS**

# Program of Work

## MHD 7: Neurosurgery Instruments Implants And Accessories

Scope: To formulate Indian Standards for Neurosurgery instruments, implants and accessories (cranial

& spinal) and monitoring devices

Liaison:

	Published Standards					
S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.	
1	IS 10157 : 2023	Neurological Percussor (First		-	Indigenous	
		Revision)				
2	IS 10172 : 1982	Specification for burs and	July, 2022	-	Indigenous	
	Reviewed In: 2022	perforators for drill brace				
3		Drill Brace - Burs and Perforators (		-	Identical under single	
<u> </u>	60815-4	First Revision )			numbering	
4	IS 10174 : 2023	Skull Traction Tongs - Crutchfield's Pattern (First		-	Indigenous	
		Revision)				
5	IS 10174 : 1982	Tongs, skull Traction, Crutchfield's	August, 2022	-	Indigenous	
	Reviewed In: 2022	Pattern				
6	IS 10183 : 1982	Specification for retractor, deep,	July, 2022	-	Indigenous	
	Reviewed In: 2022	self - Retaining, laminectomy				
7	IS 10676 : 1983	Spatula, Brain, Double-ended	July, 2022	-	Indigenous	
	Reviewed In: 2022	Malleable, Olivecrona's Pattern				
8	IS 10677 : 2024	Intervertebral Disc Rongeur (First		-	Indigenous	
	YO 40655 4000	Revision)	X 1 2022		Y 11	
9	IS 10677 : 1983	Specification for rongeur,	July, 2022	-	Indigenous	
10	Reviewed In: 2022 IS 10765: 1983	intervertebral disk Forceps, Dissecting, Toothed and	July, 2022	_	Indigenous	
10	Reviewed In : 2022	Bayonet Shaped, Cushing's Pattern	July, 2022	-	margenous	
11	IS 13141 : 1991	Neurosurgical Instruments-	August, 2022		Indigenous	
'1	Reviewed In : 2022	Leksell's Rongeur	August, 2022		margenous	
12	IS 13141 : 2023	Leksell's Rongeur for		_	Indigenous	
	10 1011112020	Neurosurgery (First Revision)			Indigenous	
13	IS 13175 : 1991	Neurosurgical instruments - Needle	April, 2022	-	Indigenous	
	Reviewed In: 2022	holder - Shape and dimensions	1			
14	IS 13180 : 2023	Neurosurgery - Scoville Trephine (		-	Indigenous	
		First Revision )				
15	IS 14139 : 2008	Neurosurgical implants - Self -	January, 2023	-	Identical under dual	
	ISO 9713	Closing intracranial aneurysm clips			numbering	
	Reviewed In: 2023	(First Revision)				
	9713:2002					
16	IS 14679 : 1999	Neurosurgical implants -	January, 2021	-	Indigenous	
	Reviewed In: 2021	Implantable peripheral nerve				
L	70 FG 0 1 1500 1	stimulators	Y 2025		*	
17	IS/ISO 14708-1:	Implants for surgery - Active	January, 2023	-	Identical under single	
	2014	implantable medical devices: Part 1			numbering	

Reviewed in 2023   Implants for surgery Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the manufacturer   Implants for surgery - Active provided by the provided by the manufacturer   Implants for surgery Minimum   Implants for surgery   Indigenous	1	ISO 14708-1 : 2014	general requirements for safety,		I	
ISO 14708-1:2014   provided by the manufacture (First Revision)     18   18   18   18   18   18   18						
First Revision			•			
ISIND 14708-3   Implants for surgery - Active   Stroth 1   Stroth 2   Indigenous		130 14/08-1.2014	•			
Indigenous   Ind	18	IS/ISO 14708-3:	, ,	March, 2024	-	Identical under single
Reviewed In : 2024   SD 14798-3-2017   Implants for surgery Minimum data sets for surgery Mini		2017				numbering
Reviewed In : 2024   Sto 1478-3-2017   Implants for surgery Minimum   Implants for surgery		ISO 14708-3 : 2017	implantable neurostimulators (First			
19		Reviewed In: 2024	-			
16054-2019   data sets for surgical implants		ISO 14708-3:2017				
16054-2019	19	IS 17744 : 2021	Implants for surgery Minimum		-	Identical under dual
20		16054:2019	data sets for surgical implants			numbering
Reviewed In : 2024   Singleuse hydrocephalus shunts and components   Components		16054:2019				
Components	20	IS/ISO 7197 : 2006	Neurosurgical implants - Sterile,	July, 2024	-	Indigenous
21		Reviewed In: 2024	singleuse hydrocephalus shunts and			
Reviewed In : 2022						
Shape and dimensions - First Revision	21			April, 2022	-	Indigenous
Revision   Revision   April, 2022   Indigenous		Reviewed In: 2022				
22   IS 8175 : 1994   Neurosurgical Instruments - Porceps, Artery, Straight and Curved on Flat, Hugh Cairn's Pattern - Shape and Dimensions (First Revision)   Sections - Penfield's Pattern - Shape and Dimensions (First Revision)   Sections - Penfield's Pattern - Shape and Dimensions (First Revision)   Sections - Penfield's Pattern - Indigenous - Indige			*			
Reviewed In : 2022						
Curved on Flat, Hugh Cairn's Pattern - Shape and Dimensions (First Revision)	22			April, 2022	-	Indigenous
Pattern - Shape and Dimensions (First Revision)   Sisectors - Penfield's Pattern (First Revision)   Sisectors - Penfield's Pattern (First Revision)   Sisectors - Penfield's Pattern (First Revision)   Sas 334 : 1977   Rongeur, Cranial, Dahlgren's Pattern   July, 2022   Indigenous   Indigenous   Sas 380 : 2023   Double Action Rongeur - Oliverona's Pattern (First Revision)   Sas 505 : 1978   Forceps, Dressing, Bayonet Shape, Reviewed In : 2022   Cushing's Pattern   July, 2022   Indigenous   Sas 506 : 1978   Guide, Saw, De Martel's Pattern   July, 2022   Indigenous   Sas 506 : 1978   Guide, Saw, De Martel's Pattern   July, 2022   Indigenous   Sas 506 : 1978   Reviewed In : 2022   Kerrison Rongeur (First Revision)   Indigenous   Is 58799 : 2023   Kerrison Rongeur (First Revision)   Indigenous   Sas 5073 : 2023   Pituitary Rongeur (First Revision)   Indigenous   Is 9073 : 2023   Pituitary Rongeur (First Revision)   Indigenous   Reviewed In : 2022   Ramey Clips and Applicators (First Revision)   Specification for neuro - Suction Reviewed In : 2022   Ramey Clips and Applicators (First Revision)   Reviewed In : 2022   Ramey Clips and Applicators (First Revision)   Specification for retractor, self Reviewed In : 2023   Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)   Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)   Indigenous   Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)   Indigenous   Silver Clip Sets Part 3 Clip Racks (First Revision)   Indigenous   Indigenous   Silver Clip Sets Part 3 Clip Racks (First Revision)   Indigenous   Indigenous   Silver Clip Sets Part 3 Clip Racks (First Revision)   Indigenous   Indigen		Reviewed In: 2022				
CFirst Revision   CFirst Rev						
23   IS 8176 : 2023			1			
CFirst Revision   CFIRST Rev			`			
24	23	IS 8176 : 2023			-	Indigenous
Reviewed In : 2022	L		` ´			
Double Action Rongeur Olivecrona's Pattern (First Revision)   Process of Pattern (First Revision)	24		_	July, 2022	-	Indigenous
Olivecrona's Pattern (First Revision)   26   IS 8695 : 1978   Forceps, Dressing, Bayonet Shape, Reviewed In : 2022   Cushing's Pattern   July, 2022   - Indigenous	25		<u> </u>			T 1'
Revision   Revision   Revision   Revision   Revision   Reviewed In : 2022   Forceps, Dressing, Bayonet Shape, Cushing's Pattern   July, 2022   Reviewed In : 2022   Indigenous   Reviewed In : 2022   Revision   Reviewed In : 2022   Revision	25	18 8380 : 2023	_		-	Indigenous
26			· ·			
Reviewed In : 2022	26	IC 9605 - 1079	/	II 2022		In diagrams
27	26			July, 2022	-	indigenous
Reviewed In : 2022	27			July 2022		Indigenous
28	21		Guide, Saw, De Marters Fattern	July, 2022	_	margenous
29	28		Kerrison Rongeur (First Revision)		_	Indigenous
CFirst Revision   CFIRST Rev	20	15 0777 . 2023	remon rengeur (1 not revision)			margenous
CFirst Revision   CFIRST Rev	29	IS 9041 : 2023	Neurosurgery - Periosteal Elevator		-	Indigenous
31						
Revision)  32 IS 9073: 1979 Reviewed In: 2022  33 IS 9074: 2023  34 IS 9408: 1986 Reviewed In: 2022  35 IS 9410 (Part 1): 2023  36 IS 9410 (Part 2): 2023  37 IS 9410 (Part 3): 2023  38 IS 9410 (Part 3): 2023  39 IS 9410 (Part 3): 2023  30 IS 9410 (Part 3): 2023  31 IS 9410 (Part 3): 2023  32 IS 9410 (Part 3): 2023  33 IS 9410 (Part 3): 2023  34 IS 9410 (Part 3): 2023  35 IS 9410 (Part 3): 2023  36 IS 9410 (Part 3): 2023  37 IS 9410 (Part 3): 2023  38 IS 9410 (Part 3): 2023  39 IS 9410 (Part 3): 2023  30 IS 9410 (Part 3): 2023  31 IS 9410 (Part 3): 2023  32 IS 9410 (Part 3): 2023  33 IS 9410 (Part 3): 2023  34 IS 9410 (Part 3): 2023  35 IS 9410 (Part 3): 2023  36 IS 9410 (Part 3): 2023  37 IS 9410 (Part 3): 2023  38 IS 9410 (Part 3): 2023  39 IN 9973  30 IS 9410 (Part 3): 2023  30 IN 9974  31 IN 9974  32 IN 9974  32 IN 9974  33 IN 9974  34 IN 9974  45 IN 9974  46 IN 9974  47 IN 9974  47 IN 9974  48 IN 9974  49 IN 9974  49 IN 9974  49 IN 9974  49 IN 9974  40 IN 9974	30	IS 9072 : 2023	Pituitary Rongeur (First Revision)		-	Indigenous
Revision)  32 IS 9073: 1979 Reviewed In: 2022  33 IS 9074: 2023  34 IS 9408: 1986 Reviewed In: 2022  35 IS 9410 (Part 1): 2023  36 IS 9410 (Part 2): 2023  37 IS 9410 (Part 3): 2023  38 IS 9410 (Part 3): 2023  39 IS 9410 (Part 3): 2023  30 IS 9410 (Part 3): 2023  31 IS 9410 (Part 3): 2023  32 IS 9410 (Part 3): 2023  33 IS 9410 (Part 3): 2023  34 IS 9410 (Part 3): 2023  35 IS 9410 (Part 3): 2023  36 IS 9410 (Part 3): 2023  37 IS 9410 (Part 3): 2023  38 IS 9410 (Part 3): 2023  39 IS 9410 (Part 3): 2023  30 IS 9410 (Part 3): 2023  31 IS 9410 (Part 3): 2023  32 IS 9410 (Part 3): 2023  33 IS 9410 (Part 3): 2023  34 IS 9410 (Part 3): 2023  35 IS 9410 (Part 3): 2023  36 IS 9410 (Part 3): 2023  37 IS 9410 (Part 3): 2023  38 IS 9410 (Part 3): 2023  39 IN 9973  30 IS 9410 (Part 3): 2023  30 IN 9974  31 IN 9974  32 IN 9974  32 IN 9974  33 IN 9974  34 IN 9974  45 IN 9974  46 IN 9974  47 IN 9974  47 IN 9974  48 IN 9974  49 IN 9974  49 IN 9974  49 IN 9974  49 IN 9974  40 IN 9974						
Specification for neuro - Suction tubes   Specification for neuro - Suction tubes   Specification for neuro - Suction tubes	31	IS 9073 : 2023	Neuro-suction Tubes (First		-	Indigenous
Reviewed In: 2022 tubes  33 IS 9074: 2023 Raney Clips and Applicators (First Revision)  34 IS 9408: 1986 Specification for retractor, self Reviewed In: 2022 retaining (First Revision)  35 IS 9410 (Part 1): Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)  36 IS 9410 (Part 2): Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)  38 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)						
Solver Clip Sets Part 2 Clip Sets Part 2 Clip   Silver Clip Sets Part 2 Clip   Applying Forceps (First Revision)	32		Specification for neuro - Suction	August, 2022	-	Indigenous
Revision)  34 IS 9408: 1986 Reviewed In: 2022 Specification for retractor, self retaining (First Revision)  35 IS 9410 (Part 1): 2023 Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)  36 IS 9410 (Part 2): Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)  38 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)						
Specification for retractor, self Reviewed In : 2022   Specification for retractor, self Reviewed In : 2022   Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)   Silver Clip Sets Part 2 Clip Revision	33	IS 9074 : 2023			-	Indigenous
Reviewed In: 2022 retaining (First Revision)  35 IS 9410 (Part 1): Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)  36 IS 9410 (Part 2): Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)						
Silver Clip Sets Part 1 Clip Cutting and Forming Forceps (First Revision)   - Indigenous	34		-	August, 2022	-	Indigenous
2023 and Forming Forceps (First Revision)  36 IS 9410 (Part 2): Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)  38 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)						<u> </u>
Revision)  36 IS 9410 (Part 2): Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)  38 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)	35	, ,	1 1		-	Indigenous
36 IS 9410 (Part 2): Silver Clip Sets Part 2 Clip Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)  - Indigenous  - Indigenous		2023				
2023 Applying Forceps (First Revision)  37 IS 9410 (Part 3): Silver Clip Sets Part 3 Clip Racks (First Revision)  - Indigenous	26	IC 0410 (D + 2)				T 11
37 IS 9410 (Part 3) : Silver Clip Sets Part 3 Clip Racks (First Revision)  - Indigenous	36		• •		-	indigenous
2023 (First Revision)		2023	Applying Forceps (First Revision)			
2023 (First Revision)	27	IS 0/10 (Dowt 2) :	Silver Clip Sete Part 2 Clip Beeles			Indianova
	3/				_	margenous
38 IS 9903 : 2023 Skull Brace (First Revision) - Indigenous		2025	(1 IISt Kevisioli)			
50 15 7705 . 2025 Skull bluce (1 list Revision)	38	IS 9903 · 2023	Skull Brace (First Revision)		_	Indigenous
	50	15 7703 . 2023	Skull Bluce (1 list Revision)			margenous

39	IS 9904 : 2023	Dural Hooks (First Revision)		-	Indigenous
40	IS 9911 : 1981	Specification for cannula, brain	April, 2022	-	Indigenous
	Reviewed In: 2022				
41	IS 9914 : 2023	Ice Tong Calipers - Cone's Pattern		=	Indigenous
		(First Revision)			
42	IS 9914 : 1981	Calipers, Ice Tong, Cone's Pattern	August, 2022	-	Indigenous
	Reviewed In: 2022				
43	IS 9933 : 2023	Brain Retractors (First Revision)		-	Indigenous

## **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.	Doc No.	Title
1	MHD 7 (25834) Revision	Neurosurgical Instruments- Forceps Artery Dandys Pattern-Shape and Dimensions
	of: IS 8174:1994	
2	MHD 7 (25835) Revision	Neurosurgical Instruments -Forceps Artery Straight and Curved on Flat Hugh Cairns Pattern -
	of: IS 8175:1994	Shape and Dimensions
3	MHD 7 (25836) Revision	Neurosurgical Instruments - Needle Holder - Shape and Dimensions
	of: IS 13175:1991	
4	MHD 7 (25864) Revision	Specification For Rongeur Cranial Dahlgrens Pattern
	of: IS 8334:1977	
5	MHD 7 (25865) Revision	Specification For Forceps Dressing Bayonet Shape Gushings Pattern
	of: IS 8695:1978	
6	MHD 7 (25866) Revision	Specification For Guide Saw De Martels Pattern
	of: IS 8696:1978	
7	MHD 7 (25867) Revision	Specification For Cannula Brain
	of: IS 9911:1981	
8	MHD 7 (25977)	Neurosurgical Implants Self Closing Intracranial Aneurysm Clips

Draft Standards Completed WC Stage				
SI. No.	SI. No. Doc No. Title			
	No Records Found			

	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 7 (20220) Revision	Self- Retaining Retractor For Laminectomy	

	of: IS 10183:1982	
2	MHD 7 (20221) Revision	Brain Spatula Olivecrona s Pattern First Revision
	of: IS 10676:1983	
3	MHD 7 (20223) Revision	Cushing s Pattern Toothed and Bayonet Shaped Dissecting Forceps First Revision
	of: IS 10765:1983	
4	MHD 7 (20236) Revision	Self-Retaining Retractor for Neurosurgery
	of: IS 9408:1986	
5	MHD 7 (21710) Revision	Neurosurgical Implants Part 1 Self Closing Intracranial Aneurysm Clips Second Revision
	of: IS 14139:2008	

#### Total Published Standards:37 Total Standards Under development:13

### **Aspect Wise Report**

Product: 35
Code of Practices: 1
Methods of Test: 0
Terminology: 0
Dimensions: 1
System Standard: 0
Safety Standard: 1
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 14219 : 2001	Neurosurgical Implants - Sterile Single-Use Hydrocephalus Shunts and Components
	Reviewed In: 2006	
2	IS/ISO 14708-7 : 2013	Implants for surgery - Active implantable medical devices Part 7 particular requirements for
	ISO 14708-7 : 2013	cochlear implant systems
	ISO 14708-7:2013	
3	IS 14921 : 2001	Neurosurgical Implants Marking and Packaging of Implantable Neural Stimulators
	ISO 10310	
	Reviewed In: 2011	

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

SI. No.	IS No. & Year	Title
1	IS 10157 : 2023	Neurological Percussor First Revision
2	IS 10172 : 1982 Reviewed In : 2022	Specification for burs and perforators for drill brace
3	IS 10174 : 2023	Skull Traction Tongs - Crutchfield 39 s Pattern First Revision
4	IS 10183 : 1982 Reviewed In : 2022	Specification for retractor deep self - Retaining laminectomy
5	IS 10676 : 1983 Reviewed In : 2022	Spatula Brain Double-ended Malleable Olivecrona s Pattern
6	IS 10677 : 2024	Intervertebral Disc Rongeur First Revision
7	IS 10765 : 1983 Reviewed In : 2022	Forceps Dissecting Toothed and Bayonet Shaped Cushing s Pattern
8	IS 13141 : 2023	Leksell 39 s Rongeur for Neurosurgery First Revision
9	IS 13175 : 1991	Neurosurgical instruments - Needle holder - Shape and dimensions

	Reviewed In: 2022	1
10	IS 13180 : 2023	Neurosurgery - Scoville Trephine First Revision
		g. 7
11	IS 14139 : 2008	Neurosurgical implants - Self - Closing intracranial aneurysm clips First Revision
	ISO 9713	
	Reviewed In:	
	2023 9713:2002	
12	IS 14679 : 1999	Neurosurgical implants - Implantable peripheral nerve stimulators
	Reviewed In: 2021	ran e gama ran a ran
13	IS/ISO 14708-3 : 2017	Implants for surgery - Active implantable medical devices Part 3 implantable neurostimulators
	ISO 14708-3 : 2017	First Revision
	Reviewed In : 2024 ISO	1 1100 100 1101011
	14708-3:2017	
14	IS/ISO 7197 : 2006	Neurosurgical implants - Sterile singleuse hydrocephalus shunts and components
	Reviewed In : 2024	redrosurgical implants Sterile singleuse nydrocephatus shans and components
15	IS 8174 : 1994	Neurosurgical instruments - Forceps artery Dandy 39 s pattern - Shape and dimensions - First
16	Reviewed In : 2022	Revision
	IS 8175 : 1994	Neurosurgical Instruments - Forceps Artery Straight and Curved on Flat Hugh Cairn 39 s Pattern -
	Reviewed In : 2022	
17	IS 8176 : 2023	Shape and Dimensions First Revision Dissectors - Penfield 39 s Pattern First Revision
1/	15 81 / 6 : 2023	Dissectors - Penneid 39's Pattern First Revision
18	IS 8334 : 1977	Rongeur Cranial Dahlgren s Pattern
	Reviewed In: 2022	Rongour Orainar Burngron of accorn
19	IS 8380 : 2023	Double Action Rongeur - Olivecrona 39 s Pattern First Revision
	15 0300 . 2023	Bouble Netion Rongetti Shveetona 37 81 attern 1 not Revision
20	IS 8695 : 1978	Forceps Dressing Bayonet Shape Cushing s Pattern
_~	Reviewed In: 2022	Toroxpo Dissoning Duyoner Shape Cashing of Lattern
21	IS 8696 : 1978	Guide Saw De Martel s Pattern
	Reviewed In: 2022	Suide Suiv De Marter & Luttern
22	IS 8799 : 2023	Kerrison Rongeur First Revision
	10 0777 . 2023	Remison Rongedi That Revision
23	IS 9041 : 2023	Neurosurgery - Periosteal Elevator First Revision
		g y i iiii ii
24	IS 9072 : 2023	Pituitary Rongeur First Revision
		The state of the s
25	IS 9073 : 2023	Neuro-suction Tubes First Revision
26	IS 9074 : 2023	Raney Clips and Applicators First Revision
27	IS 9408 : 1986	Specification for retractor self retaining First Revision
] -,	Reviewed In: 2022	
28	IS 9410 (Part 1): 2023	Silver Clip Sets Part 1 Clip Cutting and Forming Forceps First Revision
20		22. C. Cap See Tare I cap cattering and I offining I of Copy I not I to 1.000
29	IS 9410 (Part 2) : 2023	Silver Clip Sets Part 2 Clip Applying Forceps First Revision
	10 / 110 (1 (11 (2) . 2023	onvoi cup oca i ait 2 cup ripprying i orecps i not revision
30	IS 9410 (Part 3): 2023	Silver Clip Sets Part 3 Clip Racks First Revision
	10 / 110 (1 ant 3) . 2023	onvoi cup ooto i ait o cup racko i not revision
31	IS 9903 : 2023	Skull Brace First Revision
	10 7703 . 2023	OKUII DIUCCI II3t Revision
32	IS 9904 : 2023	Dural Hooks First Revision
] 32	15 7707 . 2023	Durai Hooks I list Revision
33	IS 9911 : 1981	Specification for cannula brain
	Reviewed In : 2022	Specification for camina oralli
34	IS 9914 : 2023	Ice Tong Calipers - Cone 39 s Pattern First Revision
J <del>-1</del>	15 3314 . 2023	100 Tong Campers - Cone 37 8 Lattern First Revision
35	IS 9933 : 2023	Brain Retractors First Revision
	10 7733 . 2023	Diam retractors i fist revision
	1	<u>l</u>