**BUREAU OF INDIAN STANDARDS**

**MEDICAL EQUIPMENT AND HOSPITAL PLANNING DEPARTMENT**

**(MHD)**

**AGENDA**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sectional Committee** | | **Meeting No:** | **Date, Day & Time** |
| Ear, Nose, Throat and Head & Neck Surgery (ENT - H&N) Instruments Sectional Committee, (MHD 04) | | 18 | 18th Dec. 2024 Wednesday, 3:00 PM |
| ***Via Webex platform***  **Meeting Link**: URL:  https://bismanak.webex.com/bismanak/j.php?MTID=m8953820d4f5971e7fefe91db45ec2993  **Meeting Number**: 2517 680 8591  **Password**: MHD04@18 | | | |
| **Chairperson** | Dr. Rakesh Kumar, Professor, Dept. of Otorhinolaryngology and HNS, AIIMS New Delhi | | |
| **Member Secretary** | Karthik Reddy Katipally Scientist B/Assistant Director Bureau of Indian Standards. | | |

# ITEM 0 GENERAL

# WELCOME ADDRESS BY MEMBER SECRETARY

# OPENING REMARKS BY CHAIRPERSON

**ITEM 1 CONFIRMATION OF MINUTES OF THE PREVIOUS MEETING**

1.1 The minutes of the last meeting of Ear, Nose, Throat and Head & Neck Surgery (ENT - H&N) Instruments Sectional Committee (MHD 04) held on 25th September 2024 approved by the Chairperson was circulated to all members through the BIS portal vide letter no: MHD 04/A2.17 dated 28-October-2024.

1.2 No comments have been received so far.

*The Committee may formally confirm the minutes.*

**ITEM 2 SCOPES AND COMPOSITION OF SECTIONAL COMMITTEE**

2.1 The present scope of Ear, Nose, Throat and Head & Neck Surgery (ENT - H&N) Instruments Sectional Committee (MHD 04) is as follows:

* To formulate Indian Standards for diagnostic, examining, surgical instruments, devices and implants used in Ear, Nose, Throat and Head & Neck Surgery.
* Excluding specific instruments under the scope of MHD 01 “Surgical Instruments” and MHD 08 “Dentistry”

*The Committee may please note*.

2.2 The present composition Ear, Nose, Throat and Head & Neck Surgery (ENT - H&N) Instruments Sectional Committee (MHD 04) along with participation status of members is enclosed at [***Annexure-A.***](#A)

2.3 Structure of Technical Committee and underdevelopment drafts - Panels in TC

**a) MHD04/P7, Otology (Ear) Panel**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Organization** | **Name** |
|  | PGIMER, Chandigarh | Dr Jaimanti Bakshi (Convener) |
|  | Ex-PGIMS, Rohtak | Dr Vikas Kakkar |
|  | ALPS International, New Delhi | Mr. Alok Narang |

**b) ) MHD04/P4, Rhinology (Nose) Panel -** Experts informed the committee that Dr. Kanwar Sen is superannuated and recommended BIS secretariat to contact Dr Ram Manohar Lohia Hospital for nomination of experts in the panel.

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Organization** | **Name** |
| 1. | AIIMS, New Delhi | Dr Rakesh Kumar (Convener)  Dr Prem Sagar  Dr Arvind Kumar |
| 2. | Government Medical College & Hospital, Chandigarh | Dr Surinder Singhal |

**C) ) MHD04/P5, Head and Neck Surgery (HNS) Panel**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Organization** | **Name** |
|  | Maulana Azad Medical College, New Delhi | Dr Ravi Meher |
|  | PGIMER, Chandigarh | Dr Jaimanti Bakshi |
|  | AIIMS, New Delhi | Dr Kapil Sikka |
|  | GTB Hospital, New Delhi | Dr. Vipin Arora |
|  | Tata Memorial Hospital, Mumbai | Dr.Richa Vaish |

**D) ) MHD04/P6, Laryngology (Throat) Panel -** The committee recommended that the BIS Secretariat reach out to Dr. Arvind Kairo, Dr. Smriti Panda, and Mr. Vijay Aggarwal regarding their panel membership, and ensure the inclusion of relevant experts in future meetings.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Name** | **Organization** | **Role** |
| 1. | Dr Vikas Gupta | All India Institute of Medical Sciences, Bhopal | Convener |
| 2. | Dr Nitin Gupta | Government Medical College & Hospital, Chandigarh | Expert |

2.4 The attendance of members in Sectional Committee meetings is essential for its efficient and effective functioning. Accordingly, any member remaining absent from two consecutive meetings and/or fifty percent or more meetings of the Sectional Committee in a year will become automatically disqualified to continue as the member of the Sectional Committee.

2.5 With a view to make the Committee more effective through active contribution of the members in standardization activities, non-participating members are liable to be dropped from the Committee in order to provide opportunity to other similar organizations/institutions that may be interested to participate and contribute to the standardization efforts. Further, the Committee needs to be made fully representative of the various interests concerned considering that non-industry representation should not be less than two-third of the committee composition, as far as possible.

*The committee may please note and review the composition.*

**ITEM 3 DRAFT STANDARDS / AMENDMENTS FOR FINALIZATION**

3.1 The following draft Indian Standards / Amendments have been sent for wide circulation:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Document No.** | **Title** | **Last date for comments** | **Comments received (Yes/No)** |
| 1. | MHD/04/26670  Revision of  (IS 8316: 1977) | ENT Surgery Instruments –Retractor – Hajek’s Pattern Specification (First Revision) | 07 December, 2024 | No |
| 2. | MHD/04/26669  Revision of (IS 8327: 1977) | Chevalier Jacksons Pattern Vocal Nodule Forceps Specification (First Revision) | 30 November, 2024 | No |
| 3. | MHD/04/26674  Revision of (IS 8734: 1978) | Ent Surgery Instruments – Removing and Cutting Forceps — Chevalier Jackson’s Pattern – Specification (First Revision) | 06 December, 2024 | No |
| 4. | MHD/04/26675  Revision of (IS 8735: 1978) | ENT Surgery Instruments –– Suction Tube –– Yankauer's pattern –– Specification (First Revision) | 07 December, 2024 | No |
| 5. | MHD/04/26683  Revision of (IS 8743: 1994) | ENT Surgery Instruments – Direct Bronchoscopy Forceps –– Irwin Moore's Pattern –– Specification (Second Revision) | 07 December, 2024 | No |
| 6. | MHD/04/26684  Revision of (IS 8825: 1978) | ENT Surgery Instruments – Suction Irrigation Cannula –– Specification (First Revision) | 07 December, 2024 | No |
| 7. | MHD/04/26685  Revision of (IS 8837: 1978) | ENT Surgery Instruments –– Suction Tube with Stylet –– Specification (First Revision) | 07 December, 2024 | No |
| 8. | MHD/04/26686  Revision of (IS 8838: 1978) | ENT Surgery Instruments –– Straight Cup Forceps –– Specification (First Revision) | 07 December, 2024 | No |
| 9. | MHD/04/26687  Revision of (IS 8839: 1978) | ENT Surgery Instruments –– Upwards Cup Forceps –– Specification (First Revision) | 07 December, 2024 | No |
| 10. | MHD/04/26688  Revision of (IS 8840: 1978) | ENT Surgery Instruments –– Scissors –– Specification (First Revision ) | 07 December, 2024 | No |

3.2The documents where no comments have been received may be taken up for finalization.

*The Committee may kindly consider*.

**ITEM 4 DRAFT STANDARDS/AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION**

4.1 The following draft Indian Standards / Amendments are ready for wide circulation:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Document No./ Standard No.** | **Title** | **Remarks** |
| **1** | **MHD/04/26136** | **Ossicular Reconstruction Prosthesis- General Requirements** | **Draft placed at Annexure-** |
| **2** | **MHD/04/26141** | **Computer-Assisted Surgical Systems Surgical ENT Navigation System General and Safety Requirements** | **Draft placed at Annexure** |
| **3** | **MHD/04/26919** | **Audiometric Test Room Specification** | **Draft placed at Annexure** |
| **4** | **MHD/04/25256** | **ENT Workstation** | **Draft placed at Annexure** |
| **5** | **MHD/04/25258** | **Otology Drill** | **Draft placed at Annexure** |
| **6** |  | **Fibrin Glue** | **Draft placed at Annexure** |
| **7** |  | **Grommets** | **Draft placed at Annexure** |

*The Committee may kindly deliberate and approve.*

4.2 The comments on WC drafts shall be made only through the Standardization Portal. The BIS portal provides a very user-friendly interface and helps faster compilation and analysis of comments. In case of any difficulties in accessing the portal, the members may contact the Member Secretary for necessary guidance.

*The Committee may kindly note.*

**ITEM 5 DRAFT UNDER PREPARATION**

5.1 The following indigenous subject drafts are under preparation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Equipment** | **Origin** | **Panel** | **Progress** |
| 1 | Micro debrider | DOP LIst | Nose | Accepted by the committee |
| 2 | Otology Drill | Committee decision | Ear | WC draft |
| 3 | Nasal Endoscopes | DOP LIst | Throat | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 4 | Flexible Video-Rhino-Laryngoscope (FOL) | DOP LIst | Throat | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 5 | Otoendoscopes | DOP LIst | Ear | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 6 | Flexible Fibre optic bronchoscope | DOP LIst | Throat | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 7 | Oesophagoscope | DOP LIst | Throat | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 8 | Stroboscope | DOP LIst | Throat | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 9 | Microlaryngoscope | DOP LIst | Throat | IS 15732 series, Endoscopes - Medical Endoscopes and Endotherapy Devices IS 13450 (Part 2/Sec 18) : 2014 Medical electrical equipment: Part 2 particular requirements for the basic safety and essential performance: Sec 18 endoscopic equipment |
| 10 | Plasma Ablation System (Coblation System) | DOP LIst | Nose | Recomended to transfer to MHD 15 |
| 11 | LED head light | DOP LIst | Nose | IS 13450 (Part 2/Sec 41) : 2020/IEC 60601-2-41 : 2009 Medical electrical equipment — Part 2-41: Particular requirements for basic safety and essential performance of surgical luminaires and luminaires for diagnosis, already covers Requirements for light source used for diagnosis. |
| 12 | Navigation system | DOP LIst | Nose | P draft stage completed |
| 13 | Camera monitor system for endoscopic sinus surgery | DOP LIst | Nose | IS/IEC 62563-1:2016 Medical Electrical Equipment Medical Image Display System Part 1 Evaluation Method IS 15732 (Part 1): 2018 / ISO 8600-1 : 2015 Endoscopes — Medical Endoscopes and Endotherapy Devices Part 1 General Requirements ( First Revision )" |
| 14 | Pure Tone Audiometer with Speech audiometers | DOP LIst | Ear | IS/IEC 60645-1:2017 Electroacoustics - Audiometric equipment - Part 1: Equipment for pure-tone and speech audiometry |
| 15 | Tympanometer | DOP LIst | Ear | IS/IEC 60645-5 : 2004 Electroacoustics Audiometric equipment Part 5: Instruments for the measurement of aural acoustic impedance / admittance |
| 16 | Automated otoacoustic emission recorder | DOP LIst | Ear | IS/IEC 60645-6:2022 Electroacoustics - Audiometric equipment - Part 6: Instruments for the measurement of otoacoustic emissions |
| 17 | Automated auditory brain stem recorder | DOP LIst | Ear | IS/IEC 60645-7 : 2009 Electroacoustics - Audiometric equipment: Part 7 instruments for the measurement of auditory brainstem responses |
| 18 | Evoked Potential system (for Brain Stem Evoked Response audiometry and Auditory steady state responses and vestibular evoked myogenic potentials) | DOP LIst | Ear | IS/IEC 60645-7 : 2009 Electroacoustics - Audiometric equipment: Part 7 instruments for the measurement of auditory brainstem responses |
| 19 | Videonystagmography system | DOP LIst | Ear | Accepted by the committee |
| 20 | Tracheostomy tubes (cuffed and plain) | DOP LIst | Throat | IS 18377 : 2024/ ISO 5366:2016 Anaesthetic and respiratory equipment — Tracheostomy tubes and connectors |
| 21 | Fibrin Glue | Committee decision | Head and neck surgery | WC draft stage completed, comments under resolution |
| 22 | Grommet Specification | Committee decision | Ear | WC draft stage completed, comments under resolution |
| 23 | ENT treatment unit (ENT Workstation) | DOP LIst | Ear | WC draft stage completed, comments under resolution |
| 24 | Oscillating Saw | Committee decision | Head and neck surgery | already under-developemnt in MHD02. Commitee may consider to drop this subject. |
| 25 | External Nasal Splint | Committee decision | Nose | Accepted by the committee |
| 26 | Audiometry Room | Committee decision | Ear | P draft stage completed |
| 27 | Ossicular Reconstruction Prosthesis | Committee decision | Ear | P draft stage completed, comments under resolution |
| 28 | ENT operating Microscope | Committee decision | Ear | recommended to adopt " ISO 10936-1:2017 Optics and photonics — Operation microscopesPart 1: Requirements and test methods" |
| 29 | Voice prosthesis | Committee decision | Head and neck surgery | Transferred from MHD 11 Anaesthetic, Resuscitation and Allied Equipment |

*The Committee may Deliberate and Decide.*

5.2 **Commenting on P-Drafts by Members of Technical Committee**

5.2.1 P-Draft is the stage where members of the concerned technical committee can support or reject the project or offer comments for improvement. Therefore, abstaining from commenting on the P-Draft by a member has serious implications on the quality of the draft. BIS had issued directions regarding commenting on P-Drafts wherein any member not commenting on two consecutive and/or one-fourth of the P-Drafts circulated by the Technical Committee in a year will automatically be disqualified to continue as a member.

5.2.2 The members may examine the P-Draft document(s) whenever under circulation and offer comments as per the following options:

1. Agree
2. Agree (with comments\*)
3. Don’t agree (with comments\*)
4. No Comments, as it is not related to my area of expertise.

5.2.3 The comments on P- Drafts shall be made only through the Standardization Portal.

*The Committee may kindly note.*

**ITEM 6 COMMENTS ON PUBLISHED STANDARDS**

6.1 No comments have been received on published Indian Standards.

*The committee may kindly note.*

**ITEM 7 NEW SUBJECTS**

The committee may identify the emerging fields in the area under its scope and decide formulation of Indian Standards on the same. The Committee may also define a thrust area which should take into consideration the standards development required in the given context keeping in view the social, environmental and economic consideration.

*The Committee may kindly deliberate.*

**ITEM 8 TECHNICAL ISSUES**

There are no specific technical issues to be discussed.

*The Committee may kindly note.*

**ITEM 9 INTERNATIONAL ACTIVITIES**

The Committee has no liaison with international standards organization.

*The Committee may kindly note.*

**ITEM 10 PROGRAMME OF WORK**

The present Programme of Work of Ear, Nose, Throat and Head & Neck Surgery (ENT - H&N) Instruments Sectional Committee, (MHD 04) is available at BIS website [www.bis.gov.in](http://www.bis.gov.in) and the same is placed at [***Annexure-B.***](#b)

*The Committee may kindly note.*

**ITEM 11 REVIEW OF INDIAN STANDARDS**

**11.1** **Review of Pre-2000 Standards**

11.1.1 All Indian Standards published before the year 2000 need to be reviewed for revision/withdrawal/archiving in the light of technological developments that have happened so far in relation to these standards. This exercise has to be completed in a time bound manner. The details in this regard are given below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Total as per PoW** | **Under Development** | **Under Print** | **Remaining** | **Under Progress (out of the remaining)** | **Pending** |
| 37 | 15 | 6 | 16 | 4 - to be withdrawn  10- Revised Documents to be Finalized  1- A | 1- IS 11319 : 1985,Oesophagoscope, Negus' Pattern |

11.1.2 The list of the above Indian Standards at various stages is given at ***Annexure-B****.*

*The Committee may kindly review*.

**ITEM 12 ISSUES ARISING OUT OF THE PREVIOUS MEETINGS**

There are no specific issues to be discussed.

*The Committee may kindly note.*

**ITEM 13 DATE AND PLACE OF NEXT MEETING**

As per the approved Annual Meeting Calendar for 2024-25, the next meeting of MHD 04 is scheduled on 19 March 2025.

*The Committee may kindly note.*

**ITEM 14 ANY OTHER BUSINESS**

Progress on sustainability of surgical instruments.

**Annexure-A**

| **Sl. No.** | **Organization** | **Member Name** | **15th meeting  20/03/2024** | **16th meeting  26/06/2024** | **17th meeting  25/09/2024** | **Attendance (x/3)** |
| --- | --- | --- | --- | --- | --- | --- |
|  | All India Institute of Medical Sciences, New Delhi | Dr. Rakesh Kumar | P | A | P | 2/3 |
|  | All India Institute of Medical Sciences, New Delhi | Dr Arvind Kumar | A | A | A | 0/3 |
|  | ALPS International, New Delhi | Mr. Karan Narang | NA | P | P | 2/2 |
|  | ALPS International, New Delhi | Mr. Alok Narang | NA | P | P | 2/2 |
|  | All India Institute of Medical Sciences, New Delhi | Dr. Prem Sagar | A | P | A | 1/3 |
|  | All India Institute of Medical Sciences, Bhopal | Dr. Vikas Gupta | P | P | P | 3/3 |
|  | All India Institute of Medical Sciences, Bhopal | Dr. Ganakalyan Behera | A | A | P | 1/3 |
|  | Association of Indian Medical Device Industry, New Delhi | Dr. C.S.Prasad | P | P | A | 2/3 |
|  | Association of Indian Medical Device Industry, New Delhi | Mr. Ankur Bhargava | A | A | A | 0/3 |
|  | Association of Indian Medical Device Industry, New Delhi | Mr. Tarlochan Dev | A | A | P | 1/3 |
|  | Government Medical College & Hospital, Chandigarh | Dr. Nitin Gupta | P | A | A | 1/3 |
|  | Government Medical College & Hospital, Chandigarh | Dr. Surinder K Singhal | P | P | P | 3/3 |
|  | Happy Reliable Surgeries Private Limited, Bangalore | Mr. Sanjeev Gautam | P | A | A | 1/3 |
|  | Happy Reliable Surgeries Private Limited, Bangalore | Mr. Hemant Savale | P | P | P | 3/3 |
|  | India Medtronic Private Limited, Gurugram | Ms.Latika Vats | P | A | A | 1/3 |
|  | India Medtronic Private Limited, Gurugram | Mr. Saurabh Sable | A | A | P | 1/3 |
|  | India Medtronic Private Limited, Gurugram | Mr. Sandeep Verma | A | P | P | 2/3 |
|  | Indian Institute of Technology Kanpur, Kanpur | Dr. A. R. Harish | P | P | P | 3/3 |
|  | Kalam Institute of Health Technology, Vishakhapatnam | Mr. Amit Sharma | P | P | P | 3/3 |
|  | Kalam Institute of Health Technology, Vishakhapatnam | Dr. Arjun Thimmaiah | A | A | P | 1/3 |
|  | Karl Storz Endoscopy India Private Limited, New Delhi | Mr. Kapil Rana | NA | A | P | 1/2 |
|  | Karl Storz Endoscopy India Private Limited, New Delhi | Mr. Sandeep Sethi | NA | P | P | 2/2 |
|  | Serwell MediEquip, Chennai | Mr. T. Jebin Samuel | P | P | P | 3/3 |
|  | Serwell MediEquip, Chennai | Mr. R. Radhakrishnan | P | A | A | 1/3 |
|  | Serwell MediEquip, Chennai | Mr. G. Sathish | A | A | A | 0/3 |
|  | Tata Memorial Center (Hospital), Mumbai | Dr. Richa Vaish | NA | P | P | 2/2 |
|  | Tata Memorial Center (Hospital), Mumbai | Mr. Vijay Yashwant Mestri | NA | A | P | 1/2 |
|  | Tata Memorial Center (Hospital), Mumbai | Dr Arjun Singh | NA | A | A | 0/2 |
|  | IN PERSONAL CAPACITY | Dr. Jaimanti Bakshi | NA | A | P | 1/2 |
|  | IN PERSONAL CAPACITY | Dr. Kapil Sikka | NA | P | P | 2/2 |

**Annexure-B**

|  |  |  |  |
| --- | --- | --- | --- |
| **SI. No.** | **IS No.** | **TITLE** | **Remarks** |
|  | IS 10344 : 2024 | Davis-Boyle Gag Frame and Tongue Plates Specification First Revision | Revised |
|  | IS 10725 : 2024 | Myringotomy Knife Specification (First Revision) | Revised |
|  | IS 10726 : 2024 | Meatal Skin Incision Knife Specification (First Revision) | Revised |
|  | IS 10786 : 2024 | St. Clair Thomsons Rhinoscopic Mirror Specification (First Revision) | Revised |
|  | IS 10846 : 2024 | Killian's Pattern Nasal Speculum - Specification ( First Revision ) | Revised |
|  | IS 12901 (Part 1) : 2024 | Laryngeal Forceps Part 1 Fine Grasping Crocodile Jaws Straight Specification (First Revision) | Revised |
|  | IS 12901 (Part 2) : 2024 | Laryngeal Forceps Part 2 Oval Cup Specification (First Revision) | Revised |
|  | IS 17407 : 2020 | Digital Otoscope â€” Handheld Type | Revised |
|  | IS 17750 (Part 7): 2021 ISO 14708-7:2019 | Implants for surgery Active implantable medical devices Part 7: Particular requirements for cochlear and auditory brainstem Implant Systems(First Revision) |  |
|  | IS 3758 : 2018 | Hooks, aural - Specification (First Revision) | Revised |
|  | IS 3760 : 2021 | Probe, Aural, Jobson Horneâ€™s Pattern â€” Specification (First Revision of IS 3760) | Revised |
|  | IS 3788 : 2024 | Aural Specula Specification First Revision | Revised |
|  | IS 3799 : 2019 | Forceps, aural and nasal, crocodile action - Specification (First Revision) | Revised |
|  | IS 3807 : 2024 | Aural and Nasal Dressing Forceps Specification (Second Revision) | Revised |
|  | IS 4488 : 2018 | Forceps, Tonsil Holding (Muck's and White's Patterns) Specification ( First Revision ) | Revised |
|  | IS 4489 : 2018 | Forceps, Nasal Turbinate, Lucâ€™s â€” Specification ( First Revision ) | Revised |
|  | IS 4504 : 2018 | Forceps, peritonsillar - Specification (First Revision) | Revised |
|  | IS 4514 : 2018 | Forceps, Tonsil Dissecting (Waugh's Pattern) - Specification ( First Revision ) | Revised |
|  | IS 4520 : 2018 | Forceps, Punch, Nasal Citelli's Antrum and Hajek's Sphenoidalâ€” Specification (First Revision) | Revised |
|  | IS 4959 : 2018 | Raspatory, Nasal, Howarth'sâ€” Specification (First Revision) | Revised |
|  | IS 5338 : 2024 | Eustachian Catheter Specification First Revision | Revised |
|  | IS 5720 : 2024 | Mollison's Pattern Self-Retaining Mastoid Retractor Specification (First Revision) | Revised |
|  | IS 8094 : 2024 | Cawthornes Pattern Cerumen Hook Specification First Revision | Revised |
|  | IS 8128 : 2024 | Farabeuf's Pattern Elevator Specification (First Revision) | Revised |
|  | IS 8129 : 2024 | Forceps - Tonsil Artery, Curved (Scotts Pattern) - Specification (First Revision) | Revised |
|  | IS 8136 : 2024 | Dundas Grant's Pattern Seeker Specification (First Revision) | Revised |
|  | IS 8157 : 2024 | Heath's Pattern Granulation Forceps Specification (First Revision) | Revised |
|  | IS 9058 : 2024 | Zoellner's Pattern Upward Cutting Knife Specification - (First Revision) | Revised |
|  | IS 9059 : 2024 | Zoellner's Pattern Downward Cutting Knife Specification (First Revision) | Revised |
|  | IS 9479 : 2024 | Shea's Pattern 25, 45, and 90 Angle Fenestra Hook for Ear Surgery - Specification (First Revision) | Revised |
|  | IS 9480 : 2024 | Shea's Pattern Left and Right Elevators For Ear Surgery - Specification (First Revision) | Revised |
|  | IS 9526 : 2024 | Crocodile Jaw Stapedectomy Scissors - Specification (First Revision) | Revised |
|  | IS 9544 : 2024 | Round Cup, Elongated Cup and Oval Cup Jaws Stapedectomy Forceps - Specification (First Revision) | Revised |
|  | IS 9564 : 2024 | Serrated, Smooth and Mc Gee Wire Closing Jaws Stapedectomy Forceps - Specification (First Revision) | Revised |
|  | IS 10272 : 1982 | Specification for draffin suspension apparatus | MHD/04/25980.(WC completed) |
|  | IS 10308 : 1982 | Tracheostomy Tubes and Guides, Cubley's Pattern | MHD/04/25984 (WC completed) |
|  | IS 11318 : 1985 | Bronchoscope, Aspirating, Negus' Pattern | To be withdrawn |
|  | IS 11319 : 1985 | Oesophagoscope, Negus' Pattern | Decision to be taken for WC |
|  | IS 13169 : 1991 | Ent surgery instruments head mirror - Specification | MHD/04/25979(WC completed) |
|  | IS 13179 : 1991 | Ent Surgery Instruments - Tracheostomy Tubes, Chevaliar Jackson's Pattern | MHD/04/25987 (WC completed) |
|  | IS 4487 : 2000 | ENT Surgery Instruments - Forceps, Tonsil Artery (Birkett's Pattern) | MHD/04/25394 (under print) |
|  | IS 4994 : 1968 | Specification for Forceps, Redressing, Walsham's Right, Left and Straightening | MHD/04/25923 (WC completed) |
|  | IS 5147 : 1969 | Examination Lamp with Bull's Eye Condenser (Floor Model) | To be withdrawn |
|  | IS 5377 : 1969 | Speculum, Nasal, Thudichum's | MHD/04/25925 (WC completed) |
|  | IS 5412 : 1969 | Saws, Nasal, Joseph's Pattern | MHD/04/25922 (WC completed) |
|  | IS 5723 : 1970 | Specification for mallet with fluted handle for ENT surgery | MHD/04/21654 (under print) |
|  | IS 5732 : 1970 | Gouge, Mastoid (Jenkins' Pattern) | To be withdrawn |
|  | IS 5747 : 1970 | Retractor, Endaural (Lempert's Pattern) | MHD/04/21736 (under print) |
|  | IS 6464 : 2000 | ENT Diagnostic Instruments - Tuning Forks (Gardiner Brown's Pattern) | MHD/04/21743 (under print) |
|  | IS 6465 : 1972 | Trocar, Antral, with Cannula (Tilley Lichtwitz' Pattern) | MHD/04/25933 (WC completed) |
|  | IS 6514 : 1972 | Nasal Cartilage Knife (Ballenger's Pattern) | MHD/04/25934 (WC completed) |
|  | IS 7710 : 1975 | Snare, Tonsil, Eve's Pattern | MHD/04/26089 (WC completed) |
|  | IS 7712 : 1975 | Curette, Adenoid, St. Clair Thomson's Pattern | MHD/04/26103 (WC completed) |
|  | IS 7713 : 1975 | Retractor, Light Model, Weislander's Pattern | MHD/04/25494 (WC completed) |
|  | IS 7756 : 1975 | Depressor, Tongue, Lack's Pattern | MHD/04/25938 (WC completed) |
|  | IS 8093 : 1976 | Curette, Ballance's pattern | MHD/04/25927 (WC completed) |
|  | IS 8199 : 1976 | Tracheostomy Tubes, Fuller's Pattern | To be withdrawn |
|  | IS 8315 : 1977 | Forceps, Redressing, Asch's Pattern | MHD/04/25929 (WC completed) |
|  | IS 8316 : 1977 | Retractor, Hajek's Pattern | Remaining |
|  | IS 8327 : 1977 | Forceps, Nodule, Vocal, Chevalier Jackson's Pattern | Remaining |
|  | IS 8343 : 1977 | Forceps, Biopsy, Peterson's Pattern | Remaining |
|  | IS 8734 : 1978 | Forceps, Cutting and Removing Large Specimens, Chevalier Jackson's Pattern | Remaining |
|  | IS 8735 : 1978 | Tube, Suction, Yankauer's Pattern | Remaining |
|  | IS 8743 : 1994 | ENT surgery instruments - Forceps, direct bronchoscopy, with alligator jaws and tenaculum points, Irwin Moore's pattern | Remaining |
|  | IS 8825 : 1978 | Specification for cannula, suction irrigation with locking device, microlaryngeal | Remaining |
|  | IS 8837 : 1978 | Specification for suction tubes with stylet microlaryngeal surgery | Remaining |
|  | IS 8838 : 1978 | Specification for forceps, cup, straight, microlaryngeal surgery | Remaining |
|  | IS 8839 : 1978 | Specification for forceps,cup upwards, microlaryngeal surgery | Remaining |
|  | IS 8840 : 1978 | Specification for scissors, microlaryngeal surgery | Remaining |
|  | IS 9558 : 1980 | Specification for gauge, depth, ptfe (Teflon) piston | MHD/04/21830 (under print) |
|  | IS 9718 : 1981 | Specification for jig, cutting, ptfe piston | MHD/04/21659 (under print) |