**IS 7756 : 2024**

***भारतीय मानक***

***Indian Standard***

**ईएनटी शल्य चिकित्सा उपकरण — जीभ डिप्रेसर — लैक पैटर्न — विशिष्टि**

*(* पहला पुनरीक्षण )

**ENT Surgery Instruments –– Tongue Depressor — Lack’s Pattern — Specification**

) *First Revision )*

ICS 11.040.30

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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Ear, Nose, Throat and Head & Neck Surgery (ENT-H&N) Instruments Sectional Committee, MHD 04

FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards after the draft Finalized by the Ear, Nose, Throat and Head & Neck Surgery (ENT-H&N) Instruments Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1975. The first revision of this standard has been brought out to align it with recent developments and to bring the standard in line with the latest style and format of Indian Standards.

The composition of the Committee responsible for formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded-off value should be same as that of the specified value in this standard.

*Indian Standard*

ENT SURGERY INSTRUMENTS –– TONGUE DEPRESSOR — LACK’S PATTERN — SPECIFICATION

**1 SCOPE**

This standard cover dimensional and other requirements for Lack’s pattern’ tongue depressor.

**2 REFERENCES**

The standards given in contain provisions, which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards:

|  |  |
| --- | --- |
| *IS No.* | *Title* |
| IS 7531 : 1990 | Surgical instruments — Corrosion resistance of stainless steel surgical instruments — Methods of tests (*first revision*) |
| IS 6911 : 2017 | Stainless steel plate, sheet and strip — Specification (*second revision*) |

**3 SHAPE AND DIMENSIONS**

**3.1**The shape and dimensions of tongue depressor lack's pattern shall be as shown in Fig. 1.

**3.2** Deviation of ± 25 percent shall be allowed on all dimensions.

**4 MATERIAL**

The material shall be stainless steel conforming to designation X04Cr18Ni9 or X07Crl8Ni9 of IS 6911.

**5 WORKMANSHIP AND FINISH**

**5.1** The depressor shall be of one piece and shall be free from burrs, pits, cracks and other surface flaws.

**5.2** The edges of the depressor shall be even, rounded and shall not be sharp.

**5.3**The depressor shall be polished bright and passivated.

**5.4** The thickness of the depressor shall be uniform throughout.



*W*

*W*1

*L*2

R25

2.0

80°

*L*1

R20

10

All dimensions in millimetres.

Fig. 1 Depressor, Tongue, Lack's Patter

**6 TESTS**

**6.1 Flexibility Test**

Grip the whole length of the straight limb of the depressor in a vice. Apply a force to the free end of the depressor to deflect it by an amount shown in Fig. 1. The depressor shall not have acquired any new permanent set. The blade shall show no sign of damage after test.

**6.2 Proof Load Test**

Grip the depressor firmly in a vice close to the large blade, with the blade protruding and facing upwards. Suspend gradually a load of 180 N (18 kgf approximately) from the tip of the blade for 2 min. Similarly carry out the test on the small blade using a load of 100 N (10 kgf approximately). After the test, the depressor shall show no sign of damage.

**6.3 Corrosion Resistance**

The depressor shall show no sign of corrosion when tested in accordance with IS 7531.

**7 MARKING**

**7.1** Each depressor shall be marked with the manufacturer’s name, initials or recognized trade-mark and the country of manufacture.

**7.2 BIS Certification Marking**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act,* 2016and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

**8 PACKING**

The depressor shall be wrapped in moisture-proof paper or packed in polyethylene bags. The depressor may also be packed as agreed to between the purchaser and the supplier. On the package of the product batch number, lot number, and serial number shall be mentioned.

**ANNEX A**

(*Foreword*)

**COMMITTEE COMPOSITION**

| *Organization* |  | *Representative*(*s*) |
| --- | --- | --- |
| All India Institute of Medical Sciences, New Delhi |  | Dr Rakesh Kumar (*Chairperson*) |
| ALPS International, New Delhi |  | ShriAlok Narang |
|  | Shri Karan Narang (*Alternate*) |
| All India Institute of Medical Sciences, New Delhi |  | Dr Prem Sagar |
|  | Dr Arvind Kumar (*Alternate*) |
| All India Institute of Medical Sciences, Bhopal |  | Dr Vikas Gupta |
|  | Dr Ganakalyan Behera (*Alternate*) |
| Association of Indian Medical Device Industry, New Delhi |  | Shri Tarlochan Dev |
|  | Shri Ankur Bhargava (*Alternate* I) |
|  | Dr C.S. Prasad (*Alternate* II) |
| Directorate General of Health Services, New Delhi |  | Ms Dr Pallika Kumar |
| Government Medical College & Hospital, Chandigarh |  | Dr Surinder K Singhal |
|  | Shri Nitin Gupta (*Alternate*) |
| Happy Reliable Surgeries Private Limited, Bangaluru |  | Shri Hemant Savale |
|  | Shri Sanjeev Gautam (*Alternate*) |
| India Medtronic Private Limited, Gurugram |  | Shrimati Latika Vats |
|  | Shri Saurabh Sable (*Alternate* I) |
|  | Shri Sandeep Verma (*Alternate* II) |
| Indian Institute of Technology Kanpur, Kanpur |  | Dr A. R. Harish |
| Kalam Institute of Health Technology, Vishakhapatnam |  | Dr Arjun Thimmaiah |
|  | Shri Amit Sharma (*Alternate*) |
| Karl Storz Endoscopy India Private Limited, New Delhi |  | Shri Sandeep Sethi |
|  | Shri Kapil Rana (*Alternate*) |
| Serwell MediEquip, Chennai |  | Shri T. Jebin Samuel |
|  | Shri R. Radhakrishnan (*Alternate* I) |
|  | Shri G. Sathish (*Alternate* II) |
| Tata Memorial Center (Hospital), Mumbai |  | Dr Richa Vaish |
|  | Shri Vijay Yashwant Mestri (*Alternate* I) |
|  | Dr Arjun Singh (*Alternate* II) |
| Postgraduate Institute of Medical Education and Research, Chandigarh |  | Shrimati Dr Jaimanti Bakshi |
| In Personal Capacity (*D-2 ,Tower 7, Type 5, East Kidwai Nagar, New Delhi-110023*) |  | Dr Kapil Sikka |
| BIS Directorate General |  | Shri A. R. Unnikrishnan Scientist ‘G’ and Head (Medical Equipment and Hospital Planning) [Representing Director General, Bis (*Ex-officio*)] |

Ear, Nose, Throat and Head & Neck Surgery (ENT-H&N) Instruments Sectional Committee, MHD 04

*Member Secretary*

Shri Karthik Reddy Katipally

Scientist ‘B’/Assistant Director

(Medical Equipment and Hospital Planning), Bis