

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

**दंत चिकित्सा — मोबाइल दंत चिकित्सा यूनिट्स और दंत रोगी कुर्सियाँ
भाग 2 वायु, जल, चूषण और अपशिष्ट जल प्रणालियाँ**

Draft Indian Standard

**Dentistry — Mobile Dental Units and Dental Patient Chairs
Part 2 Air, Water, Suction and Wastewater Systems**

ICS 11.060.20

Dentistry Sectional Committee, MHD 08

Last date for comments: 05 April 2024

NATIONAL FOREWORD

(Adoption clause will be added later)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'
- Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 1942, Dentistry Vocabulary	— IS 17895: 2023/ISO 1942: 2020, Dentistry Vocabulary	Identical
ISO 5467-1, Dentistry — Mobile dental units and dental patient chairs —Part 1: General requirements	MHD/08/24103, Dentistry — Mobile dental units and dental patient chairs —Part 1: General requirements	Identical

ISO 7494-2:2022, Dentistry — Stationary dental units and dental patient chairs — Part 2: Air, water, suction and wastewater systems	MHD/08/24112, Dentistry — Stationary dental units and dental patient chairs — Part 2: Air, water, suction and wastewater systems	Identical
ISO 8573-1, Compressed air — Part 1: Contaminants and purity classes	IS/ISO 8573-1 : 2010, Compressed air: Part 1 contaminants and purity classes (<i>First Revision</i>)	Identical
ISO 10637, Dentistry — Central suction source equipment	MHD/08/19066, Dentistry — Central suction source equipment	Identical
IEC 60601-1: 2005 + AMD1 : 2012 + AMD 2: 2020, Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	MHD/15/22648, Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	Modified/Technically Equivalent

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 5167-1	Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements
ISO 22052	Dentistry — Central compressed air source equipment

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 shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (*second revision*)’.

This standard also makes a reference to the BIS Certification Marking of the product. Details of which is given in National Annex A.

NATIONAL ANNEX A
(National Foreword)

A-1 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, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

Scope

This document specifies the requirements and test methods for mobile dental units concerning:

- a) the properties of mobile dental unit connections to the compressed air supply, water supply, suction supply, and wastewater drain plumbing,
- b) the materials, design, and construction of the compressed air and water system within the mobile dental unit,
- c) the quality for incoming water and air,
- d) the performance of mobile dental unit suction system, and
- e) the air, water, suction and wastewater properties of mobile dental unit connections to the interfaces to dental handpieces.

This document also specifies requirements for instructions for use and a technical description.

This document is only applicable to mobile dental units that are not used for oral surgery treatment requiring sterile air and water supplies. Amalgam separators are not included in this document.

The technical content of the document has not been enclosed as it is identical with the corresponding ISO standard. For details, please refer to ISO 5467-2:2022 or kindly contact:

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