

# इंटरनेट

# मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

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“Step Out From the Old to the New”

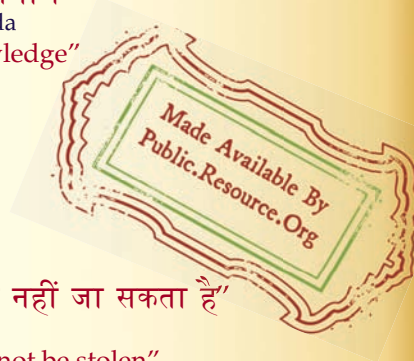
IS 2556-5 (1994): vitreous sanitary appliances (vitreous china): Part 5 Specific requirements of laboratory sinks [CED 3: Sanitary Appliances and Water Fittings]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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भारतीय मानक

काचाम स्वच्छता सचित्रों की विशिष्टि ( काचाम चीनी मिट्टी )

भाग 5 प्रयोगशाला सिंक की अपेक्षाएँ

( तीसरा पुनरीक्षण )

*Indian Standard*

**VITREOUS SANITARY APPLIANCES  
( VITREOUS CHINA ) — SPECIFICATION**

**PART 5 SPECIFIC REQUIREMENTS OF LABORATORY SINKS**

**( *Third Revision* )**

First Reprint FEBRUARY 1996

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बिलिंग  
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**BUREAU OF INDIAN STANDARDS**  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

August 1994

Price Group 3

## FOREWORD

This Indian Standard ( Third Revision ) was adopted by the Bureau of Indian Standards, after the draft finalized by the Sanitary Appliances and Water Fittings Sectional Committee had been approved by the Civil Engineering Division Council.

This standard was first published in 1963 and the first and second revisions were issued in 1967 and in 1979 respectively. In this revision changes found necessary in the light of the comments made by users and improvements made by the vitreous sanitaryware industry have been incorporated.

This standard contains clause 4.1.1 which calls for an agreement between the purchaser and the supplier. The waste fitting made of vitreous china has been deleted from this standard as neither it is manufactured nor it is normally used.

In the formulation of this standard due weightage has been given to international co-ordination among the standards and practices prevailing in different countries in addition to the practices in the field in this country. Dimensions of waste hole have been aligned with EN 32 'Wallhung Wash Basins: Connecting Dimensions'; issued by European Committee for Standardization.

The composition of the technical committees responsible in the 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 : 1960 'Rules for rounding off numerical values ( revised )'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***VITREOUS SANITARY APPLIANCES  
(VITREOUS CHINA)—SPECIFICATION****PART 5 SPECIFIC REQUIREMENTS OF LABORATORY SINKS***( Third Revision )***1 SCOPE**

This standard ( Part 5 ) covers the general requirements for sizes, dimensions, finish, and construction for the vitreous laboratory sinks.

**2 REFERENCES**

The Indian Standards listed below are the necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
2556 ( Part 1 ) : 1994	Specification for vitreous sanitary appliances ( vitreous china ) : Part 1 General requirements ( <i>third revision</i> )
2963 : 1979	Specification for copper alloy waste-fittings for wash basins and sinks ( <i>first revision</i> )
9140 : 1985	Method of sampling of vitreous sanitary appliances ( vitreous china ) ( <i>first revision</i> )

**3 GENERAL REQUIREMENTS**

The general requirements relating to terminology, material and manufacture, glazing, defects, minimum thickness, tolerances, performances and methods of tests shall conform to IS 2556 ( Part 1 ) : 1994.

**4 SIZES**

**4.1** Sinks shall be in the following sizes ( see Fig. 1 ):

- 400 × 250 × 150 mm
- 450 × 300 × 150 mm
- 500 × 350 × 150 mm
- 600 × 400 × 200 mm
- 600 × 450 × 200 mm

**4.1.1** The sinks may be made in other sizes where so agreed between the manufacturer and the purchaser. However, the tolerances on dimensions and waste outlet hole dimensions shall be as allowed in this standard.

**5 DIMENSIONS AND TOLERANCES**

The sink shall conform to the dimensions given in Table 1, read with Fig. 1.

**6 CONSTRUCTION**

**6.1** The sink shall be of one-piece construction including overflow, where provided.

**6.2** The sink shall have a circular waste hole through which liquid content of the sink shall drain. The base of the sink shall have proper and sufficient slope to drain the liquid content into the waste hole. The waste hole shall be bevelled internally and shall meet the dimensions given in Table 2.

**6.2.1** Sinks shall be provided with waste outlet fittings conforming to the requirements laid down in IS 2963 : 1979.

**6.3** Where so desired by the purchaser, the sink shall be provided with a rim.

**6.4** Where integral overflow is provided, the projection on account of overflow connection to the waste outlet hole of the sink shall be over and above the dimensions *H*. Where integral overflow is not provided, the projection at the outlet shall be not less than 15 mm.

NOTE — The dimension *H* shall be measured at the end opposite to waste hole, as shown in Fig. 1.

**6.4.1** Where an overflow hole is provided, it shall be of 25 mm diameter.

**7 FINISH**

Inside surfaces of sinks shall be uniform and smooth in order to ensure an efficient draining.

**8 SAMPLING, PROCESS INSPECTION AND LOT INSPECTION**

**8.1** The recommended method of sampling, process inspection and lot inspection of laboratory sinks shall be as given in IS 9140 : 1985.

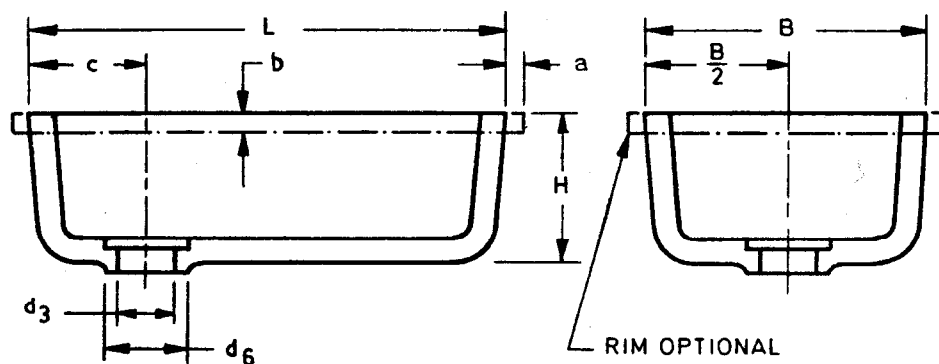


FIG. 1 DIMENSIONS OF SINKS

Table 1 Dimensions of Laboratory Sinks

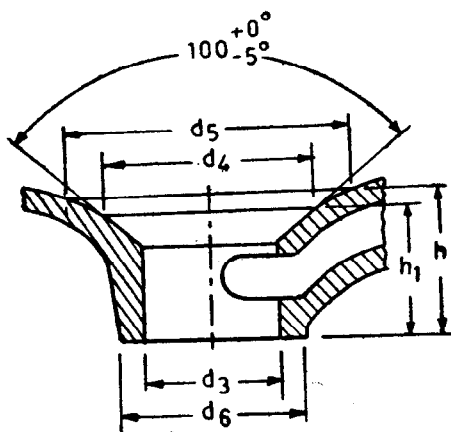
( Clause 5 )

All dimensions in millimetres.

Sizes (1)	L (2)	B (3)	H (4)	a (5)	b (6)	c (7)
400 × 250 × 150	400	250	150	15 min	15 min	90 min
450 × 300 × 150	450	300	150	15 min	15 min	90 min
500 × 350 × 150	500	350	150	15 min	15 min	90 min
600 × 400 × 200	600	400	200	15 min	15 min	90 min
600 × 450 × 200	600	450	200	15 min	15 min	90 min

Table 2 Dimensions of the Waste Outlet Hole

( Clause 6.2 )



Sl No.	Particulars	Ref in Fig.	Dimensions mm
(1)	(2)	(3)	(4)
1.	Diameter of waste outlet opening	$d_3$	$46 \begin{smallmatrix} +2 \\ -3 \end{smallmatrix}$
2.	Reference diameter i.e. outside dimension for seating the waste outlet flange, with angle of $100 \begin{smallmatrix} +0^\circ \\ -5^\circ \end{smallmatrix}$	$d_4$	$65 \pm 2$
3.	Maximum diameter at the bevelled portion of waste outlet opening	$d_5$	75 Max
4.	Outside diameter of the seating face of the waste outlet opening	$d_6$	60 Min
5.	Depth of outlet for sinks with integral overflow	$h$	$45 \begin{smallmatrix} Min \\ Max \end{smallmatrix}$
6.	Distance between the reference diameter and the seating surface for the gasket ( seal ), for sinks with integral overflow	$h_1$	$40 \begin{smallmatrix} Min \\ Max \end{smallmatrix}$

## 9 MARKING

**9.1** Laboratory sinks shall be clearly and indelibly marked at a suitable place with the following:

- i) Name or trade-mark of the manufacturer; and
- ii) Batch/Lot number.

### 9.2 BIS Certification Marking

The product may also be marked with the

Standard Mark.

**9.2.1** The use of the Standard Mark is governed by the provisions of *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

ANNEX A  
( Foreword )

COMMITTEE COMPOSITION

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( Continued on page 5 )

( Continued from page 4 )

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### Review of Indian Standards

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This Indian Standard has been developed from Doc No. CED 3 ( 5329 ).

#### Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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**AMENDMENT NO. 1 DECEMBER 1995**  
**TO**  
**IS 2556 ( Part 5 ) : 1994 VITREOUS SANITARY**  
**APPLIANCES ( VITREOUS CHINA ) — SPECIFICATION**  
**PART 5 SPECIFIC REQUIREMENTS OF LABORATORY SINKS**  
**( *Third Revision* )**

**( *Page 1, clause 4.1.1* ) — Delete.**

**( CED 3 )**

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**AMENDMENT NO. 2 OCTOBER 1996**  
**TO**  
**IS 2556 ( Part 5 ) : 1994 VITREOUS SANITARY**  
**APPLIANCES ( VITREOUS CHINA ) — SPECIFICATION**  
**PART 5 SPECIFIC REQUIREMENTS OF LABORATORY SINKS**  
*( Third Revision )*

*( Page 1, clause 2 )* — Substitute the following for the existing:  
'IS 9140 : 1996 Methods of sampling of vitreous and fire clay sanitary  
appliances ( *second revision* )'.

*( Page 1, clause 8 )* — Substitute 'IS 9140 : 1996' for 'IS 9140 : 1985'.

( CED 3 )

**AMENDMENT NO. 3 DECEMBER 1998**  
**TO**  
**IS 2556 ( Part 5 ) : 1994 VITREOUS SANITARY**  
**APPLIANCES (VITREOUS CHINA) — SPECIFICATION**  
**PART 5 SPECIFIC REQUIREMENTS OF LABORATORY SINKS**  
**( Third Revision )**

*( Page 2, Table 2, Figure )* — Delete angle ' $100 +0^{\circ}$ ' shown.  
 $-5^{\circ}$

*( Page 2, Table 2, Figure )* — Delete  $h_1$  and  $d_4$ .

*( Page 2, Table 2, Sl No. 2 and 6 )* — Delete along with their contents.

( CED 3 )