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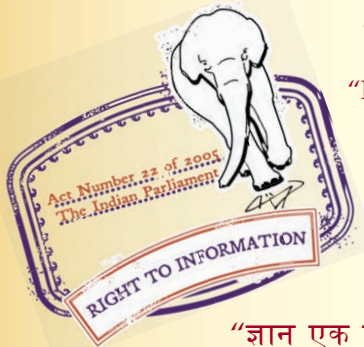
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IS 771-2 (1985): Glazed Fire-Clay Sanitary Appliances:  
Part-2 Specific Requirements of Kitchen And Laboratory  
Sinks [CED 3: Sanitary Appliances and Water Fittings]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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**IS : 771 (Part 2) - 1985**

**(Reaffirmed 2003)**

**Edition 4.3**

**(1998-12)**

*Indian Standard*

**SPECIFICATION FOR  
GLAZED FIRE-CLAY SANITARY APPLIANCES**

**PART 2 SPECIFIC REQUIREMENTS OF KITCHEN  
AND LABORATORY SINKS**

*( Third Revision )*

(Incorporating Amendment Nos. 1, 2 & 3)

UDC 696.142.2 [666.647]

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**BUREAU OF INDIAN STANDARDS**  
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NEW DELHI 110002

**Price Group 2**

*Indian Standard*

SPECIFICATION FOR  
GLAZED FIRE-CLAY SANITARY APPLIANCES

PART 2 SPECIFIC REQUIREMENTS OF KITCHEN  
AND LABORATORY SINKS

( *Third Revision* )

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*Indian Standard*  
SPECIFICATION FOR  
GLAZED FIRE-CLAY SANITARY APPLIANCES

PART 2 SPECIFIC REQUIREMENTS OF KITCHEN  
AND LABORATORY SINKS

( *Third Revision* )

0. FOREWORD

**0.1** This Indian Standard (Part 2) (Third Revision) was adopted by the Indian Standards Institution on 31 July 1985, after the draft finalized by the Sanitary Appliances and Water Fittings Sectional Committee had been approved by the Civil Engineering Division Council.

**0.2** This standard was first published in 1958 and subsequently revised in 1963 and 1979. The third revision of this standard has been taken up to incorporate further modifications necessary in the light of the comments received. The modifications include additional clauses on thickness of sinks and requirements of rim and base portion of the appliances. The general requirements applicable to all appliances and specific requirements for different types of appliances have been covered in separate parts of the standard. This standard (Part 2) lays down the specific requirements of glazed fire-clay kitchen and laboratory sinks.

**0.3** In the formulation of this standard due weightage has been given to international coordination among the standards and, practices prevailing in different countries in addition to relating it to the practices in the field in this country.

**0.4** This edition 4.3 incorporates Amendment No. 1 (December 1995), Amendment No. 2 (October 1996) and Amendment No. 3 (December 1998). Side bar indicates modification of the text as the result of incorporation of the amendments.

**0.5** 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\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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\*Rules for rounding off numerical values ( *revised* ).

# IS : 771 (Part 2) - 1985

## 1. SCOPE

1.1 This standard (Part 2) lays down the pattern and sizes, construction, dimensions and tolerances of kitchen and laboratory sinks made of fire-clay.

## 2. REQUIREMENTS

2.1 **General** — The general requirements for material, manufacture, methods of test, and inspection shall conform to IS : 771 (Part 1)-1979\*.

2.2 **Patterns, Sizes and Holding Capacities** — Sinks shall be suitable for kitchen or laboratory ( see Fig. 1 ) and shall be made in the following sizes and holding capacities:

<i>Pattern</i>	<i>Sizes</i> mm
a) Kitchen sinks	750 × 450 × 250 600 × 450 × 250 600 × 450 × 200
b) Laboratory sinks	600 × 400 × 200 500 × 350 × 150 450 × 300 × 150 400 × 250 × 150

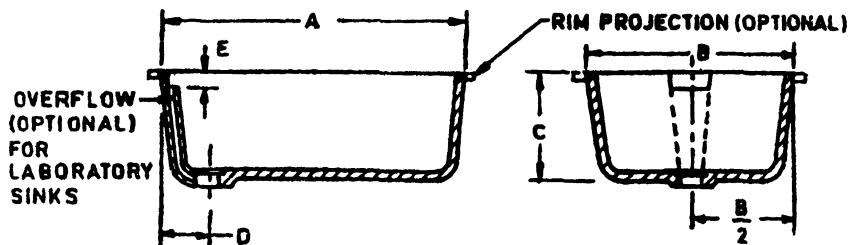


FIG. 1 KITCHEN AND LABORATORY SINKS

### 2.2.1 *Clause deleted*

\*Specification for glazed fire-clay sanitary appliances: Part 1 General requirements (second revision).



**2.2.2** The kitchen and laboratory sinks may be made in other patterns and sizes where so agreed to between the manufacturer and the purchaser. However, tolerances on dimensions shall be as specified in this standard.

## 2.3 Construction

**2.3.1 Kitchen Sinks** — The kitchen sinks shall be of one piece construction with or without rim but without overflow.

### 2.3.1.1 Clause deleted

**2.3.2 Laboratory Sinks** — The laboratory sinks shall be of one piece construction with or without rim and with or without combined overflow. The invert of the overflow where provided shall be minimum 30 mm below the top edge.

### 2.3.2.1 Clause deleted

**2.3.3 Waste Hole** — The sink shall have a circular waste hole ( see Fig. 2 ) 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 1.

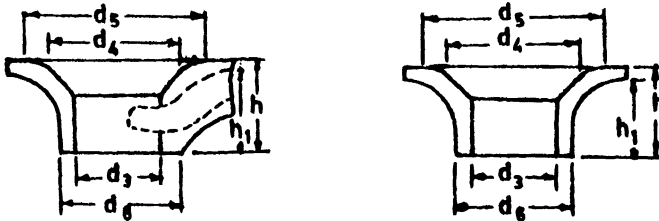


FIG. 2 DETAILS OF WASTE HOLES FOR KITCHEN AND LABORATORY SINKS

**2.3.3.1** The waste hole shall accommodate a waste fitting, having a flange diameter of 64 mm ( see IS 2963-1979\* ).

**2.3.3.2** Where integral overflow is provided, the projection on account of overflow connection to the waste hole of the sink shall be over and above the dimension *C*. Where integral overflow is not provided, the projection at the outlet shall be not less than 15 mm. The dimension *C* shall be measured at the end opposite to waste hole, as shown in Fig. 1.

\*Copper alloy waste fittings for wash basins and sinks — Specification.

**TABLE 1 DIMENSIONS OF WASTE HOLE**  
( Clause 2.3.3 )

SL NO.	PARTICULARS	REF IN FIGURE	DIMENSIONS IN MM
i)	Diameter of outer opening	$d_3$	46, +2/-3
ii)	<i>deleted</i>		
iii)	Maximum diameter at the <i>bevelled portion of opening</i>	$d_5$	75 <i>Max</i>
iv)	Outside diameter of seating face of the outer opening	$d_6$	60 <i>Min</i>
v)	Depth	h	45 <i>Min</i> 50 <i>Max</i>
vi)	<i>deleted</i>		

## 2.4 Dimensions and Tolerances

**2.4.1 Dimensions** — Kitchen sinks and laboratory sinks shall conform to the dimensions given in Table 2 read with Fig. 1.

**TABLE 2 DIMENSIONS OF KITCHEN AND LABORATORY SINKS**  
( Clauses 2.4.1 and Fig. 1 )

All dimensions in millimetres.

PATTERN	SIZE	A	B	C	D
(1)	(2)	(3)	(4)	(5)	(6)
a) Kitchen sinks	$750 \times 450 \times 250$	750	450	250	150
	$600 \times 450 \times 250$	600	450	250	150
	$600 \times 450 \times 200$	600	450	200	150
b) Laboratory sinks	$600 \times 400 \times 200$	600	400	200	90
	$500 \times 350 \times 150$	500	350	150	90
	$450 \times 300 \times 150$	450	300	150	90
	$400 \times 250 \times 150$	400	250	150	90

**2.4.2 Tolerances** — The following tolerances shall be permissible on the dimensions specified for kitchen and laboratory sinks:

- a) On dimensions of 50 mm and over  $\pm 4$  percent; and
- b) On dimensions less than 50 mm  $\pm 2$  mm.

**2.4.3 Thickness** — The minimum thickness of the walls and bottom of the sinks of sizes mentioned in 2.2(a) and 2.2(b) shall not be less than 25 mm and 15 mm, respectively.

**2.4.3.1** Wherever integral overflow arrangement is provided, the thickness of the overflow wall shall not be less than 12 mm.

### 3. MARKING

**3.1** Sinks shall be clearly and indelibly marked at a prominent place, visible after the sinks are installed, with the name or trade-mark of the manufacturer.

**3.1.1** Each sink conforming to the requirements specified in the standard may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

### 4. SAMPLING

**4.1** The sampling shall be done in accordance with IS : 9140-1985\*.

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\*Method of sampling of vitreous and fire-clay sanitary appliances (*first revision*).

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( Continued from page 2 )

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This Indian Standard has been developed by Technical Committee : BDC 3 and amended by CED 3

### Amendments Issued Since Publication

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Amd. No. 3	December 1998

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