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Code of Basic Requirements for Water Supply, Drainage and Sanitation (BIS 1172: 1993)

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भारतीय मानक

जल अपूर्ति, जल निकाम और स्वास्थ्य की मूल
अपेक्षाओं की संहिता

(चौथा पुनरीक्षण)

Indian Standard

CODE OF BASIC REQUIREMENTS FOR
WATER SUPPLY, DRAINAGE AND SANITATION

(*Fourth Revision*)

UDC 628 1/3 : 006.76

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard (Fourth Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Water Supply and Sanitation in Building Sectional Committee had been approved by the Civil Engineering Division Council.

This Indian Standard was first published in 1957 and subsequently revised in 1963, 1971 and 1983. In this revision, requirements of water supply for residences has been listed based on population of the community. However, for Lower Income Group (LIG) and Economical Weaker Section of Society (EWS), the value of minimum requirement of water supply has been retained as 135 litres per head per day. Fire demand in buildings has been catered to, by giving reference to a suitable standard.

This code represents a standard of good practice and, therefore, takes the form of recommendations.

Indian Standard

CODE OF BASIC REQUIREMENTS FOR WATER SUPPLY, DRAINAGE AND SANITATION

(Fourth Revision)

1 SCOPE

1.1 This standard lays down basic requirements for water supply, drainage and sanitation for residential, commercial, industrial and other types of buildings in urban areas including railway platforms, bus stations and terminals, seaports, airports and market yards.

1.2 This standard does not take into consideration the requirements of water for industrial plants and processes which have to be provided for separately depending upon individual requirements. It also does not take into account overcrowding, both casual and permanent, and is based on the assumption that the average size of a family is 5, and 9 m² floor area is occupied by not more than two persons. It does not provide for municipal water supply requirements such as for street cleaning, etc.

2 REFERENCES

2.1 The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
2064 : 1993	Code of practice for selection, installation and maintenance of sanitary appliances (<i>second revision</i>)
4878 : 1986	Byelaws for construction of cinema buildings (<i>first revision</i>)
9668 : 1990	Code of practice for provisions and maintenance for water supplies for fire fighting

3 GENERAL REQUIREMENTS

3.0 All buildings shall conform to the following general requirements in regard to water supply, drainage and sanitation.

3.1 All premises intended for human habitation, occupancy or use shall be provided with the supply of potable water, neither connected with unsafe water supply nor subject to the hazards of backflow or back-siphonage.

3.2 Plumbing fixtures, devices and appurtenances shall be supplied with water in sufficient volume and at pressures adequate to enable them to function satisfactorily under all normal conditions of use.

3.3 Plumbing shall be designed and adjusted to use the minimum quantity of water consistent with proper performance and cleaning.

3.4 Devices for heating and storing water shall be so designed and installed as to prevent dangers from explosion through overheating.

3.5 Every building having plumbing fixtures installed and intended for human habitation, occupancy or use on premises abutting on a street, alley or easement in which there is a public sewer, shall have connection with the sewer.

NOTE — An easement is a right which the owner or occupier of certain land possesses, as such, for the beneficial enjoyment of that land, to do and continue to do something, or to prevent and continue to prevent something being done, in or upon or in respect of, certain other land not his own (definition taken from Indian Easements Act, 1882).

3.6 Each family dwelling unit on premises abutting on a sewer or with a private sewage-disposal system shall have, at least, one water closet and one kitchen sink. It is desirable that a bath room with a tap or shower should be installed to meet the basic requirements of sanitation and personal hygiene.

3.7 All other structures for human occupancy or use on premises abutting on a sewer or with a private sewage-disposal system shall have adequate sanitary facilities, but in no case less than one water-closet and one other fixture for cleaning purposes.

4 WATER SUPPLY REQUIREMENTS

4.1 Water Supply for Residences

A minimum of 70 to 100 litres per head per day may be considered adequate for domestic needs of urban communities, apart from non domestic needs as flushing requirements. As

a general rule the following rates per capita per day may be considered minimum for domestic and non domestic needs:

- 1) For communities with population up to 20 000 and without flushing system
 - a) water supply through 40 lphd (*Min*) standpost
 - b) water supply through 70 to 100 lphd house service connection
- 2) For communities with population 20 000 to 100,000 together with full flushing system 100 to 150 lphd
- 3) For communities with population above 100 000 together with full flushing system 150 to 200 lphd

NOTE — The value of water supply given as 150 to 200 litres per head per day may be reduced to 135 litres per head per day for houses for Lower Income Groups (LIG) and Economically Weaker Section of Society (EWS), depending upon prevailing conditions.

4.1.1 Out of the 150 to 200 litres per head per day, 45 litres per head per day may be taken for flushing requirements and the remaining quantity for other domestic purposes.

4.2 Water Supply for Buildings Other Than Residences

Minimum requirements for water supply for buildings other than residences shall be in accordance with Table 1.

5 DRAINAGE AND SANITATION REQUIREMENTS

5.1 General

There shall be at least one water tap and arrangements for drainage in the vicinity of each water-closet or group of water-closets in all buildings.

5.2 Residences

5.2.1 Dwellings with individual conveniences shall have at least the following fitments:

- a) One bath room provided with a tap,
- b) One water-closet, and
- c) One nahani or sink either in the floor or raised from the floor with a tap.

Table 1 Water Requirements for Buildings Other than Residences

Sl No.	Type of Building	Consumption Per Day, litres
(1)	(2)	(3)
i)	Factories where bath rooms are required to be provided	45 per head
ii)	Factories where no bath rooms are required to be provided	30 per head
iii)	Hospital (including laundry) :	
	a) Number of beds not exceeding 100	340 per head
	b) Number of beds exceeding 100	450 per head
iv)	Nurses' homes and medical quarters	135 per head
v)	Hostels	135 per head
vi)	Hotel	180 per head
vii)	Offices	45 per head
viii)	Restaurants	70 per seat
ix)	Cinemas, concert halls and theatres	15 per seat
x)	Schools:	
	a) Day schools	45 per head
	b) Boarding schools	135 per head

NOTE — For fire demand in buildings refer IS 9668 : 1981.

Where only one water-closet is provided in a dwelling, the bath and water-closet shall be separately accommodated.

NOTE — Water-closets, unless otherwise indicated, shall be of Indian style (squatting type).

5.2.2 Dwellings without individual conveniences shall have the following fitments:

- a) One water tap with draining arrangement in each tenement,
- b) One water-closet and one bath for every two tenements, and
- c) Water taps in common bath rooms.

5.3 Buildings Other Than Residences

The requirements for fitments for drainage and sanitation in case of buildings other than residences shall be in accordance with Tables 2 to 12.

6 WATER SUPPLY, DRAINAGE AND SANITATION REQUIREMENTS FOR RAILWAY PLATFORMS, BUS STATIONS, BUS TERMINALS AND AIRPORTS

6.1 General

The water supply, drainage and sanitation requirement specified in 6.2 to 6.4 for railway stations, bus stations, bus terminals, sea ports

airports include provisions, for waiting rooms and waiting halls. They do not however, include requirements for retiring rooms.

6.2 Water Supply

Requirements for water supply according to the following:

<i>Nature of Station</i>	<i>Where Bathing Facilities are Provided litres/capita</i>	<i>Where Bathing Facilities are not Provided litres/capita</i>
a) Railways, bus stations and sea ports		
i) Intermediate stations (excluding mail and express stops)	45	25
ii) Junction stations and intermediate stations where mail or express stoppage is provided	70	45
iii) Terminal stations	45	45
b) Airports		
International and domestic airports	70	70

NOTES

1 The number of persons shall be determined by average number of passengers handled by the station daily; due consideration may be given to the staff and vendors likely to use facilities.

2 Consideration should be given for seasonal average peak requirements

6.3 Drainage

Adequate arrangements shall be made for satisfactory drainage of all sewage and waste water. The drainage shall be so designed as to cause no stagnation at the maximum discharge rate for which the different units are designed.

6.4 Sanitation

6.4.1 The minimum sanitary convenience to be provided at any railway station, bus station or bus terminal and sea ports shall be as given below:

<i>Nature of Station</i>	<i>WC for Males</i>	<i>WC for Females</i>	<i>Urinals for Males Only</i>
Junction stations and intermediate stations and bus station	3 for first 1 000 persons and 1 for every additional 1 000 persons or part thereof	4 for first 1 000 persons and 1 for every additional 1 000 persons	4 for every 1 000 persons and 1 for every additional 1 000 persons
Terminal stations and bus terminals	4 for first 1 000 persons and 1 for every subsequent 1 000 persons or part thereof	5 for first 1 000 persons and 1 for every subsequent 2 000 persons or part thereof	6 for first 1 000 persons and 1 for every subsequent 1 000 persons or part thereof

6.4.2 The sanitary conveniences to be provided at airports shall be as given below:

<i>Type of Airport</i>	<i>WC for Males</i>	<i>WC for Females</i>	<i>Urinals for Males Only</i>
Domestic airports (minimum)	2*	4*	2
for 200 persons	5	8	6
for 400 persons	9	15	12
for 600 persons	12	20	16
for 800 persons	16	26	20
for 1 000 persons	18	29	22
International airports			
for 200 persons	6	10	8
for 600 persons	12	20	16
for 1 000 persons	18	29	22

NOTE — Separate provision shall be made for staff and workers, at these traffic terminals stations.

* At least one Indian style water-closet shall be provided in each toilet. Assume 60 male to 40 female in any area.

6.4.2.1 The following provisions shall be made:

a) For wash basins at the following rates:

Domestic airports	Minimum of 2 each for male and female with the scale of provisions as for international airports for increase in population
International airports	10 for 200 persons 15 for 400 persons 20 for 600 persons 25 for 1 000 persons

b) Shower stalls with wash basin in the enclosure per stall should be provided at the following locations:

- i) 4 stalls each in the ladies and gents toilets in the transit or departure lounge.
- ii) 4 stalls in the ladies and gents toilets in the main concourse

6.4.3 Adequate scavenging arrangements shall be provided so that each terminal is kept clean of all refuse. Refuse containers shall be placed at convenient points.

Table 2 Office Buildings

(Clause 5.3)

Sl No.	Fitments	For Male Personnel	For Female Personnel
(1)	(2)	(3)	(4)
i)	Water-closets*	1 for every 25 persons or part thereof	1 for every 15 persons or part thereof
ii)	Ablution taps	1 in each water-closet 1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water-closet and urinals	1 in each water-closet
iii)	Urinals	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons 3 for 46 to 70 persons 4 for 71 to 100 persons From 101 to 200 persons add at the rate of 3 per cent For over 200 persons, add at the rate of 2.5 percent.	—
iv)	Wash basins	1 for every 25 persons or part thereof	
v)	Drinking water fountains	1 for every 100 persons with a minimum of one on each floor	
vi)	Cleaner's sink	1 per floor. <i>Min</i> , preferably in or adjacent to sanitary rooms	

*This may include adequate number of European style of water-closets, if desired.

Table 3 Factories
(Clause 5.3)

Sl No.	Fitments	For Male Personnel	For Female Personnel
(1)	(2)	(3)	(4)
i)	Water-closet*	1 for 1 to 15 persons 2 for 16 to 35 persons 3 for 36 to 65 persons 4 for 66 to 100 persons From 101 to 200 persons add at the rate of 3 percent For over 200 persons, add at the rate of 2.5 percent	1 for 1 to 12 persons 2 for 13 to 25 persons 3 for 26 to 40 persons 4 for 41 to 57 persons 5 for 58 to 77 persons 6 for 78 to 100 persons From 101 to 200 persons add at the rate of 5 percent For over 200 persons add at the rate of 4 percent
ii)	Ablution taps	1 in each water-closet 1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water-closets and urinals	1 in each water-closet
iii)	Urinals	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons 3 for 46 to 70 persons 4 for 71 to 100 persons From 101 to 200 persons add at the rate of 3 percent For over 200 persons, add at the rate of 2.5 percent	—
iv)	Washing taps with draining arrangements	1 for every 25 persons or part thereof	
v)	Drinking water fountains	1 for every 100 persons or part thereof with a minimum of one on each floor	
vi)	Baths (preferably showers)	As required for particular trades or occupations	

NOTES

1 For many trades of dirty or dangerous character, more extensive provisions are required by law.

2 Creches, where provided, shall be fitted with water-closets (one for 10 persons or part thereof) and wash basins (one for 15 persons or part thereof) and drinking water tap with draining arrangements (one for every 50 persons or part thereof).

*Some of the water-closets may be of European style, if desired.

Table 4 Cinemas*, Concert Halls and Theaters
(Clause 5.3)

Sl No.	Fitments	For Male Public	For Female Public	For Male Staff	For Female Staff
(1)	(2)	(3)	(4)	(5)	(6)
i)	Water-closets	1 per 100 persons up to 400 persons; and for over 400 persons, add at the rate of 1 per 250 persons or part thereof	3 per 100 persons up to 200 persons; and for over 200 persons add at the rate of 2 per 100 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons	1 for 1 to 12 persons 2 for 13 to 25 persons
ii)	Ablution taps	1 in each water-closet 1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water-closets and urinals	1 in each water-closet	1 in each water-closet	1 in each water-closet
iii)	Urinals	1 for 25 persons or part thereof	—	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons	—
iv)	Wash basins	1 for every 200 persons or part thereof	1 for every 200 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons	1 for 1 to 12 persons 2 for 13 to 25 persons
v)	Drinking water fountains	←—————1 per 100 persons or part thereof—————→			

NOTES

1 Some of the water-closets may be of European style, if desired.

2 It may be assumed that two-thirds of the number are males and one-third females.

3 Provisions for water tap may also be made in place of drinking water fountains, the scale of which may be 1 per 100 persons or part thereof.

*See also IS : 4878-1986.

Table 5 Art Galleries, Libraries and Museums
(Clause 5.3)

Sl No. (1)	Fitments (2)	For Male Public (3)	For Female Public (4)	For Male Staff (5)	For Female Staff (6)
i)	Water-closets	1 per 200 persons up to 400 persons; and for over 400 persons, add at the rate of 1 per 250 persons or part thereof	1 per 100 persons up to 200 persons, and for over 200 persons, add at the rate of 1 per 150 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons	1 for 1 to 12 persons 2 for 13 to 25 persons
ii)	Ablution taps	1 in each water-closet	1 in each water-closet	1 in each water-closet	1 in each water-closet
		1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water-closets and urinals			
iii)	Urinals	1 per 50 persons	—	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons	—
iv)	Wash basins	1 for every 200 persons or part thereof; and for over 400 persons, add at the rate of 1 per 250 persons or part thereof	1 for every 200 persons or part thereof; and for over 200 persons, add at the rate of 1 per 150 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons	1 for 1 to 12 persons 2 for 13 to 25 persons
v)	Cleaner's sinks	←-----1 per floor, <i>Min</i> -----→			
vi)	Drinking water fountain	←-----1 per 100 persons or part thereof-----→			

NOTES

1 Some of the water-closets may be of European style, if desired.

2 It may be assumed that two-thirds of number are males and one-third females.

Table 6 Hospitals, Indoor and Outdoor Patient Wards
(Clause 5.3)

Sl No. (1)	Fitments (2)	Requirements (3)	
		Indoor Patient Wards (For Males and Females)	
i)	Water-closets	1 for every 8 beds or part thereof	
ii)	Ablution taps	1 in each water-closet plus one water tap with draining arrangements in the vicinity of water-closets and urinals for every 50 beds or part thereof	
iii)	Wash basins	2 up to 30 beds; add 1 for every additional 30 beds or part thereof	
iv)	Baths	1 bath shower for every 8 beds or part thereof	
v)	Bed pan washing sinks	1 for each ward	
vi)	Cleaner's sinks	1 for each ward	
vii)	Kitchen sinks and dish washers (where kitchen is provided)	1 for each ward	
		Outdoor Patient Wards and Visitors	
		<i>For Males</i>	<i>For Females</i>
viii)	Water closets	1 for every 100 persons or part thereof	2 for every 100 persons or part thereof
ix)	Ablution taps	1 in each water-closet	1 in each water-closet
		1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water-closets and urinals	
x)	Urinals	1 for every 50 persons or part thereof	—
xi)	Wash basins	1 for every 100 persons or part thereof	1 for every 100 persons or part thereof
xii)	Drinking water fountain	←—————1 per 500 persons or part thereof—————→	
	NOTES		
	1	Some of the water-closets may be of European style, if desired.	
	2	Additional and special fitments for specific needs of hospitals may be provided.	

Table 7 Hospitals (Administrative Buildings, Medical Staff Quarters and Nurses' Homes)
(Clause 5.3)

Sl No.	Fitments	For Administrative Buildings		For Medical Staff Quarters (Hostel Type)		For Nurses' Homes (Hostel Type)
		For Male Personnel	For Female Personnel	For Male Staff	For Female Staff	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Water-closets	1 for every 25 persons or part thereof	1 for every 15 persons or part thereof	1 per 4 persons	1 per 4 persons	1 for 4 persons or part thereof
ii)	Ablution taps	1 in each water-closet 1 water tap with draining arrangements shall be provided in the vicinity of water-closets and urinals	1 in each water-closet	1 in each water-closet	1 in each water-closet	1 in each water-closet
iii)	Urinals	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons 3 for 46 to 70 persons 4 for 71 to 100 persons From 101 to 200 persons, add at the rate of 3 percent; and for over 200 persons, add at the rate of 2.5 percent	—	—	—	—
iv)	Wash basins	1 for every 25 persons or part thereof	1 for every 25 persons or part thereof	1 for every 8 persons or part thereof	1 for every 8 persons or part thereof	1 for every 8 persons or part thereof
v)	Baths (with shower)	—	—	1 for 4 persons or part thereof	1 for 4 persons or part thereof	1 for 4 to 6 persons or part thereof
vi)	Drinking water fountains	←-----1 per 100 persons or part thereof with a minimum of 1 on each floor-----→				
vii)	Cleaner's sink	←-----1 per floor, Min-----→				

*Some of the water-closets may be of European style, if desired.

Table 8 Hotels

(Clause 5.3)

Sl No.	Fitments	For Residential Public and Staff	For Public Rooms		For Non-Residential Staff	
			For Males	For Females	For Males	For Females
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Water-closets	1 per 8 persons omitting occupants of the room with attached water-closets; minimum of 2 if both sexes are lodged	1 per 100 persons up to 400 persons; and for over 400, add at the rate of 1 per 250 persons or part thereof	2 per 100 persons up to 200 persons; and for over 200 add at the rate of 1 per 100 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons 3 for 36 to 65 persons 4 for 66 to 100 persons	1 for 1 to 12 persons 2 for 13 to 25 persons 3 for 26 to 40 persons 4 for 41 to 57 persons 5 for 58 to 77 persons 6 for 78 to 100 persons
ii)	Ablution taps	1 in each water-closet 1 water tap with draining arrangements shall be provided thereof in the vicinity of water-closets and urinals	1 in each water-closet	1 in each water-closet	1 in each water-closet	1 in each water-closet
iii)	Urinals	—	1 per 50 persons or part thereof	—	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons 3 for 46 to 70 persons 4 for 71 to 100 persons	—
iv)	Wash basins	1 per 10 persons omitting the wash basins installed in the room suite	1 per water-closet and urinal provided	1 per water-closet provided	1 for 1 to 15 persons 2 for 16 to 35 persons 3 for 36 to 65 persons 4 for 66 to 100 persons	1 for 1 to 12 persons 2 for 13 to 25 persons 3 for 26 to 40 persons 4 for 41 to 57 persons 5 for 58 to 77 persons 6 for 78 to 100 persons
v)	Baths	1 per 10 persons omitting occupants of the room with bath en suite	—	—	—	—
vi)	Slop sinks	1 per 30 bedrooms; minimum 1 per floor	—	—	—	—
vii)	Kitchen sinks and dish washers	←————— 1 in each kitchen —————→				

NOTES

1 Some of the water-closets may be of European style, if desired.

2 It may be assumed that two-thirds of the number are males and one-third females.

Table 9 Restaurants

(Clause 5.3)

Sl No.	Fitments	For Male Public	For Female Public	For Male Staff	For Female Staff
(1)	(2)	(3)	(4)	(5)	(6)
i)	Water-closet	1 for 50 seats up to 200 seats; and for over 200 seats, add at the rate of 1 per 100 seats or part thereof	1 for 50 seats up to 200 seats; and for over 200 seats, add at the rate of 1 per 100 seats or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons 3 for 36 to 65 persons 4 for 66 to 100 persons	1 for 1 to 12 persons 2 for 13 to 25 persons 3 for 26 to 40 persons 4 for 41 to 57 persons 5 for 58 to 77 persons 6 For 78 to 100 persons
ii)	Ablution taps	1 in each water-closet	1 in each water-closet	1 in each water-closet	1 in each water-closet
		1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water-closets and urinals			
iii)	Urinals	1 per 50 seats	—	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons 3 for 46 to 70 persons 4 for 71 to 100 persons	—
iv)	Wash basins	←----- 1 for every water-closet provided -----→			
v)	Kitchen sinks and dish washers	←----- 1 in each kitchen -----→			
vi)	Slop or service sinks	←----- 1 in the restaurant -----→			

NOTES

1 Some of the water-closets may be of European style, if desired.

2 It may be assumed that two-thirds of the number are males and one-third females.

Table 10 Schools and Educational Institutions
(Clause 5.3)

Sl No.	Fitments*	Nursery Schools	Educational Institutions (Non-Residential)		Educational Institutions (Residential)	
			For Boys	For Girls	For Boys	For Girls
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Water-closets†	1 per 15 pupils or part thereof	1 per 40 pupils or part thereof	1 per 25 pupils or part thereof	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof
ii)	Ablution taps	1 in each water closet 1 water tap with draining arrangements shall be provided for every 50 pupils or part thereof in the vicinity of water-closets and urinals	1 in each water-closet	1 in each water-closet	1 in each water-closet	1 in each water-closet
iii)	Urinals	—	1 per 20 pupils or part thereof	—	1 for every 25 pupils or part thereof	—
iv)	Wash basins	1 per 15 pupils or part thereof	1 per 60, <i>Min</i> 2	1 per 40, <i>Min</i> 2	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof
v)	Baths	1 bath-sink per 40 pupils or part thereof	—	—	1 for every 8 pupils or part thereof	1 for every 6 pupils or part thereof
vi)	Drinking water fountains or taps	1 for every 50 pupils or part thereof	1 for every 50 pupils or part thereof	1 for every 50 pupils or part thereof	1 for every 50 pupils or part thereof	1 for every 50 pupils or part thereof
vii)	Cleaner's sinks	←-----	1 per floor, <i>Min</i>	-----→	-----→	-----→

*For teaching staff, the schedules of fitments to be provided shall be the same as in the case of office buildings (see Table 2).

†Some of the water-closets may be of European style, if desired.

Table 11 Hostels
(Clause 5.3)

Sl No.	Fitments	For Residents and Residential Staff		For Non- Residential Staff		Rooms Wherein Outsiders are Received	
		For Males (3)	For Females (4)	For Males (5)	For Females (6)	For Males (7)	For Females (8)
13	i) Water-closet*	1 for every 8 persons or part thereof	1 for every 6 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons 3 for 36 to 65 persons 4 for 66 to 100 persons	1 for 1 to 12 persons 2 for 13 to 25 persons 3 for 26 to 40 persons 4 for 41 to 57 persons 5 for 58 to 77 persons 6 for 78 to 100 persons	1 per 100 persons up to 400 persons; and for over 400 persons, add, at the rate of 1 for 250 persons or part thereof	2 per 100 persons up to 200 persons, and for over 200 persons, add at the rate of 1 for 100 persons or part thereof
	ii) Ablution taps	1 in each water-closet 1 water tap with draining arrangements shall be provided for and urinals	1 in each water-closet	1 in each water-closet	1 in each water-closet every 50 persons or part thereof in the vicinity of water-closets	1 in each water-closet	1 in each water-closet
	iii) Urinals	1 for 25 persons or part thereof	—	Nil up to 6 persons 1 for 7 to 20 persons 2 for 21 to 45 persons 3 for 46 to 70 persons 4 for 71 to 100 persons	—	1 per 50 persons or part thereof	—
	iv) Wash basin	1 for 8 persons or part thereof	1 for 6 persons or part thereof	1 for 1 to 15 persons 2 for 16 to 35 persons 3 for 36 to 65 persons 4 for 66 to 100 persons	1 for 1 to 12 persons 2 for 13 to 25 persons 3 for 26 to 40 persons 4 for 41 to 57 persons 5 for 58 to 77 persons 6 for 78 to 100 persons	1 per each water-closet and urinal provided	1 per each water-closet provided
	v) Baths	1 for 8 persons or part thereof	1 for 6 persons or part thereof	—	—	—	—
	vi) Cleaner's sinks	←————— 1 per floor, <i>Min</i> —————→					

*Some of the water-closets may be of European style, if desired.

Table 12 Fruit and Vegetable Markets
(Clause 5.3)

SI No.	Fitments	Requirements
(1)	(2)	(3)
i)	Urinals	Not less than 2 for every 50 persons
ii)	Water-closets*	2, <i>Min</i> , and an additional one for every 50 persons
iii)	Ablution taps	2, <i>Min</i> , and an additional tap for every 50 persons
iv)	Bathing places	Suitable numbers with talking platforms

NOTES

1 Separate and adequate provision of water-closets shall be made for females.

2 Adequate washing places for fruit and vegetables shall be provided.

*Some of the water-closets may be of European style, if desired.

Standard Mark

The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The Standard 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 BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

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