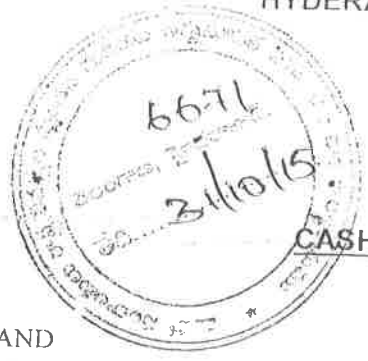




BUREAU OF INDIAN STANDARDS
5-8-56 C, L N GUPTA MARG
NAMPALLY STATION ROAD
HYDERABAD - 500001

7

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MSB 40

CASH RECEIPT

DIRECTOR GENERAL
STATE DISASTER RESPONSE AND
FIRE SERVICES
HYDERABAD
Customer Ref : VERBAL

Bill No. : 63R09591
Date : 28/10/2015

Date : 28/10/2015

Quantit	Item Description	Year	Currency	Rate	Amount (Rs. P.)
4	SP AMD 1 TO SP 7	2,015	RS	1190.00	4,760.00
4	SP AMD 2 TO SP 7	2,015	RS	130.00	520.00

[Handwritten signature]

Sale Amount 5,280.00

Balance (+/-) 5,280.00

Total No of Standard(s) 8

PEES FIVE THOUSAND TWO HUNDRED EIGHTY AND ZERO PAISE ONLY

[Handwritten signature]



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**AMENDMENT NO. 2 SEPTEMBER 2015
TO
NATIONAL BUILDING CODE OF INDIA 2005
(SP 7 : 2005)**

This amendment amends the provisions of Part 4 'Fire and Life Safety' of the Code, as follows:

(Page 24, clause 3.4.11.2) — Delete.

(Page 26, clause 3.4.19) — Substitute the following for the existing clause:

3.4.19 Glass of facade used in external walls shall comply with the following:

- a) For fully sprinklered buildings having fire separation of 9 m or more, tempered glass in a non-combustible assembly, with ability to hold the glass in place, shall be provided. It shall be ensured that sprinklers are located within 600 mm of the facade glass providing full coverage to the glass.

NOTE — In case of all other buildings, fire resistance rating of glass facade shall be in accordance with Table 1.

- b) All gaps between floor-slabs and facade assembly shall be sealed at all levels by approved fire resistant sealant material of equal fire rating as that of floor slab to prevent fire and smoke propagation from one floor to another.
- c) Facade glass at each floor shall have means to open at least 10 percent of the total facade area to exhaust smoke during emergencies. Such openings, with sill level at 1.2 m, shall be in the form of openable panels of size not less than 1 500 mm x 1 000 mm opening outwards.'

(Page 27, clause 4.6.2, first sentence) — Substitute the following for the existing sentence:

'All buildings, as follows, shall have a minimum of two staircases:

- a) Buildings 15 m in height or above, and
- b) Irrespective of height of the building(s), the buildings used as business, educational, assembly, institutional, industrial, storage and hazardous occupancies and mixed occupancies having floor area more than 500 m² on any floor.'

(Page 28, clause 4.8.3) — Insert the following at the end of the clause:

'except for the areas required to be pressurized.'

(Page 34, Fig. 3, Title) — Substitute the following for the existing title:

'FIG. 3 TYPICAL ARRANGEMENT OF WET RISER AND TOTAL SPRINKLER SYSTEM OF BUILDINGS'

(Page 42, Table 23, Note 11) — Substitute the following for the existing note:

'11 To be installed in entire building.'

(Page 43, Table 23, Note 23) — Insert the following new Note at the end, in supersession to the requirements regarding provisions on water supply and pump capacity for buildings of height 35 m or more:



Amendment No. 2 to SP 7 : 2005

‘24 For Residential Buildings, Dormitories (A-3) and Apartment Houses (A-4), building or group of contiguous buildings under a common ownership/management, the requirement of water storage and pumping shall be as follows:

Sl No.	Height of Building or of Tallest Building in a Group of Buildings	Water Supply		Pump Capacity for the Pumps near Underground Static Water Storage Tank with Minimum Pressure of 3.5 kg/cm ² at Terrace Level				Number of Pump Sets as in col (5) to (8)
		litre		litre/min				
		Underground Static Water Storage Tank	Terrace Tank	Hydrant Pump	Sprinkler Pump	Stand-by Pump	Jockey Pump	
(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	
i)	Above 35 m but not exceeding 45 m in height	75 000 per set of pumps	5 000 over respective tower terrace	2 280	2 280	2 280	180 (for hydrant pump) + 180 (for sprinkler pump)	One set of pumps shall be provided for each 100 hydrants or part thereof, with a maximum of two sets. In case of more than one pump set installation, both pump sets shall be interconnected at their delivery headers
ii)	Above 45 m but not exceeding 60 m in height	150 000 per set of pumps	10 000 over respective tower terrace	2 280	2 280	2 280	180 (for hydrant pump) + 180 (for sprinkler pump)	One set of pumps shall be provided for each 100 hydrants or part thereof, with a maximum of two sets. In case of more than one pump set installation, both pump sets shall be interconnected at their delivery headers
iii)	Above 60 m in height	200 000 per set of pumps	10 000 over respective tower terrace	2 850	2 850	2 850	180 (for hydrant pump) + 180 (for sprinkler pump)	One set of pumps shall be provided for each 100 hydrants or part thereof, with a maximum of two sets. In case of more than one pump set installation, both pump sets shall be interconnected at their delivery headers

Lower levels in these high rise buildings are likely to experience high pressure and therefore, it is recommended to consider multi-stage, multi-outlet pumps (creating pressure zones) or variable frequency drive pumps or any other equivalent arrangement

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(Page 52, clause 6.3.3.5) — Substitute the following for the existing clause:

‘6-3.3.5 The requirements for compartmentation for institutional buildings of all heights shall be as given in Annex C.’

[Page 65, clause C-1.5 (e)] — Insert the following at the end:

‘in case of fire lifts.’

(Page 67, clause C-1.6.4.1) — Delete ‘and supply fans shall stop automatically’.

(Page 67, clause C-1.6.4.2, line 2) — Substitute ‘12 air changes per hour’ for ‘30 air changes per hour’.

(Page 67, clause C-1.8) — Substitute the following for the existing clause:

‘C-1.8 All floors shall be compartmented/zoned with area of each compartment being not more than 750 m². The size of the compartment may be as follows, in case of sprinklered basement/ building:

<i>Sl No.</i>	<i>Use</i>	<i>Compartmentation Area m²</i>
(1)	(2)	(3)
i)	Basement car parking	3 000
ii)	Basements (other than car parking)	2 000
iii)	Institutional Buildings sub-division C-1	1 800
iv)	Institutional Buildings sub-division C-2 and C-3	1 125
v)	Mercantile and Assembly Building	3 000
vi)	Business Buildings	2 000
vii)	All other buildings [excluding low hazard and moderate hazard industrial buildings and storage buildings] ¹⁾	750

¹⁾ Compartmentation for low hazard and moderate hazard industrial buildings and storage buildings shall be done in consultation with local fire department.

A floor plate subject to compartmentation shall have minimum two compartments irrespective of the areas mentioned above.

Compartmentation shall be achieved by means of fire resisting wall of 2 h rating or fire curtain of 2 h rating or water curtain. In case of water curtain, existing water storage shall be supplemented by water demand for water curtain nozzles for 60 min considering the largest size of compartment. The water supply for the water curtain nozzles shall be through independent electric pump of adequate capacity (flow and head) with piping/ riser for the water supply to the nozzles.’

(Page 67, clause C-1.11) — Substitute the following for the existing clause:

‘C-1.11 Refuge Area

Provisions of 4.12.3 shall be applicable.’

[Page 69, clause C-1.17 (m)] — Delete.

(Page 70, clause C-3.1) — Substitute the following for the existing clause:

‘C-3.1 Buildings of different occupancies shall be equipped with manually operated fire alarm system and automatic fire alarm system in accordance with good practice [4(18)].’



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(Page 71, clause C-10) — Substitute the following for the existing clause:

'C-10 HELIPAD

For high-rise buildings above 200 m in height, provision for helipad is recommended for certain specific requirements like landing of firefighting equipment and support facilities or for other emergencies.'