

BY REGD.POST ACK.DUE:

GOVERNMENT OF TELANGANA
FIRE DISASTER RESPONSE EMERGENCY
& CIVIL DEFENCE DEPARTMENT



From:
The Administrative Officer (PIO),
Telangana Fire Disaster Response,
Emergency and Civil Defence,
Hyderabad.

To:
Sri R. Sanjay Kumar,
S/o Shri Ram Nivas,
R/o 5-4-187/3 & 4, II nd Floor
Soham Mansion, MG Road,
Secunderabad – 500003.

Rc.No.141/RTI Section/2024, Dated: 27-10-2024

Sir,

Sub:- Telangana Fire Disaster Response Emergency and Civil Defence – Department - RTI Section – Sri R. Sanjay Kumar, S/o Shri Ram Nivas, R/o 5-4-187/3 & 4, II nd Floor Soham Mansion, MG Road, Secunderabad - Furnishing of Information under RTI Act, 2005 - Reg.

Ref:- Application dated 04-10-2024 of Sri R. Sanjay Kumar, S/o Shri Ram Nivas, R/o 5-4-187/3 & 4, II nd Floor Soham Mansion, MG Road, Secunderabad received on 07-10-2024.

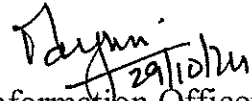
With reference to the application under RTI Act, 2005 vide reference cited, the following information with regard to Telangana Fire Disaster Response Emergency and Civil Defence Department is furnished herewith as desired therein.

Sl.No.	Question	Reply
1)	As per the norms of building Rules and Regulations is it mandatory to install sprinklers on the stilt floor areas used for parking in a building consisting of stilt + 3 upper floors with a total height of 15 mtrs (excluding stilt floor)	It is informed that, as per Table 7 of NBC of India 2016, (Fire & Life Safety) requirement of Fire Fighting installations are specified. Hence it is requested to refer Table 7 of NBC of India 2016 based on the height of the building. Copies of Table 7 is enclosed for reference.
2)	Further it is mandatory to install sprinklers on the stilt floor for areas used for parking in a building consisting of stilt + 4 upper floors with a total height of 22 mtrs.	
3)	In view of the above requested to provide the above information or copy of Act/ Rules which gives clarity on it.	

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2. This is for information.

Yours Sincerely,

Handwritten signature of Dayanidhi in black ink, with the date 29/10/24 written below it.

(Public Information Officer)

Administrative Officer,

O/o Telangana Fire, Disaster Response,

Emergency and Civil Defence,

Hyderabad.

Table 7 Minimum Requirements for Fire Fighting Installations
 [Clauses 4.9(a), 4.9(c), 4.9(e), 5.1.1(a), 5.1.1(d), 5.1.2.1, 5.1.3(a), E-7, H-2(f) and Table 2]

SI No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower	Pump Near Under-ground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
RESIDENTIAL BUILDINGS (A)													
a)	Lodging and Rooming Houses (A-1) (see Note 3)	Less than 15 m in height											
			i) Up to 15 rooms	R	NR	NR	NR	R (see Note 4)	NR	NR	5 000 (see Note 5)	NR	NR
			ii) More than 15 and up to 30 rooms	R	R	NR	NR	NR	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
			iii) More than 30 rooms	R	R	NR	NR	R (see Note 4)	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
b)	One or two Family Private Dwellings (A-2) (see Note 3)		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
c)	Dormitories (A-3) and Apartment Houses (A-4)												
i)	Less than 15 m in height	R	R	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation							Water Supply (litre)		Pump Capacity (litre/min)		
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Comer	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
2)	15 m and above but not exceeding 35 m in height	R	R	NR	R	NR	R (see Note 4)	R (see Note 8)	NR	NR	25 000	NR	900
3)	Above 35 m but not exceeding 45 m in height	R	R	R	NR	NR	R (see Note 4 and Note 9)	R	NR	75 000	5 000	(see Note 10)	NR
4)	Above 45 m in height but not exceeding 60 m in height	R	R	R	NR	R	R	R	NR	150 000	10 000	(see Note 11)	NR
5)	Above 60 m in height	R	R	R	NR	R	R	R	R	200 000	10 000	(see Note 12 & Note 13)	NR
d)	Hotels (A-5)												
1)	Less than 15 m in height												
	i) Floor area not exceeding 300 m ² on any of the floor	R	R	NR	NR	NR	R (see Note 4)	R	NR	NR	5 000 (5000) (see Note 6)	NR	450 (450) (see Note 6)
	ii) Floor area exceeding 300 m ² but not more 1 000 m ² on any of the floor	R	R	R (see Note 7)	NR	NR	R (see Note 4)	R	R	10 000 for every 500 m ² floor area subject to minimum of 50 000 (see Note 7)	10 000 (5000) (see Note 6)	(see Note 14 in case of provision of wet riser)	450 (450) (see Note 6)
	iii) Floor area exceeding 1 000 m ² on any of the floor	R	R	R (see Note 15)	NR	R	R	R (see Note 1)	R	100 000 (see Note 15)	10 000 (see Note 4)	(see Note 15 and Note 14)	NR

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation										Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Comer	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Under-ground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
	ii) Ground plus one storey and total of all floor area exceeding 500 m ²	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	(see Note 6)	NR	900 (450) (see Note 6)		
	iii) More than ground plus one storey	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	25 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)		
	2) Above 15 m but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 10)	NR		
3)	Above 24 m but not exceeding 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR		
b)	Underground shopping complex (F-3)	R	R	R	NR	R	R	R	R	150 000	10 000	(see Note 11)	NR		
INDUSTRIAL BUILDINGS (G) (see Note 17)															
a)	Low Hazard (G-1) (see Note 18)														
i)	Covered area up to 100 m ²	R	NR	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (see Note 5)	NR	450 (see Note 5)		
ii)	Covered area more than 100 m ² and up to 500 m ²	R	R	NR	R (see Note 8)	NR	R (see Note 4)	NR	NR	NR	20 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)		

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	iii) Covered area more than 500 m ² (for building height up to 15 m)	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	20 000 (5000) (see Note 6)	NR	450 (see Note 6)
	iv) Covered area more than 500 m ² (for building height above 15 m)	R	R	R	NR	R	R (see Note 4)	R	R	75 000	5 000 (see Note 6)	(see Note 14)	NR
b)	Moderate Hazard (G-2) (see Note 18)												
	i) Covered area up to 100 m ²	R	R	NR	NR	NR	R	NR	NR	NR	10 000	NR	450
	ii) Covered area more than 100 m ² and up to 500 m ²	R	R	NR	NR	NR	R	NR	NR	NR	20 000	NR	900
	iii) Covered area more than 500 m ² and up to 1000 m ² (for height up to 15 m)	R	R	NR	R	NR	R	R	R	NR	50 000	NR	900
	iv) Covered area more than 500 m ² and up to 1000 m ² (for height above 15 m)	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 14)	NR
	v) Covered area more than 1000 m ²	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
2)	10 m and above but not exceeding 15 m in height	R	R	R	NR	R	R (see Note 4)	R	R	100 000	5 000 (5 000) (see Note 6)	(see Note 10)	NR
3)	15 m and above but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	150 000	10 000 (see Note 6)	(see Note 11)	NR
4)	24 m and above but not exceeding 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000 (see Note 11)		NR
ASSEMBLY BUILDINGS (D) (see Note 16)													
a)	Buildings (D-1 to D-5)												
1)	Less than 10 m in height												
	i) Up to 300 persons	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	20 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
	ii) More than 300 persons	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	25 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)
2)	Above 10 m but not exceeding 15 m in height	R	R	R	NR	NR	R (see Note 4)	R (see Note 1)	R	100 000	5 000 (5 000) (see Note 6)	(see Note 10)	450 (450) (see Note 6)
3)	Above 15 m but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	150 000	10 000 (see Note 6)	(see Note 10)	NR
4)	Above 24 m but not exceeding 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000 (see Note 11)		NR
b)	D-6	R	R	R	NR	R	R	R	R	200 000	20 000 (see Note 12)		NR
c)	D-7	For details see 6.4.4											

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terraces	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BUSINESS BUILDINGS (E)													
1)	Less than 10 m in height	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
2)	Above 10 m but not exceeding 15 m in height	R	R	R	NR	NR	R (see Note 4)	R	R	50 000	5 000 (5 000) (see Note 6)	(see Note 14)	450 (450) (see Note 6)
3)	Above 15 m and up to 24 m in height	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 10)	NR
4)	Above 24 m and up to 30 m in height	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR
5)	Above 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 12)	NR
MERCANTILE BUILDINGS (F)													
a)	F-1 and F-2 (see Note 16)												
1)	Less than 15 m in height												
	i) Ground plus one storey, with total of all floor area not exceeding 500 m ²	R	R	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)

Table 7 — (Continued)

Sl. No.	Type of Building Occupancy	Type of Installation										Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
2)	15 m and above but not exceeding 30 m	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR		
3)	Above 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR		
e)	Hotels (A-6)	R	R	R	NR	R	R	R	R	250 000	20 000	(see Note 12)	NR		
EDUCATIONAL BUILDINGS (B) (see Note 16)															
1)	Less than 15 m in height														
	i) Ground plus one or more storeys	R	R	NR	NR	NR	R (see Note 4)	NR	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)		
2)	15 m and above but not exceeding 24 m in height	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	25 000	NR	900		
3)	Above 24 m but not exceeding 30 m in height	R	R	R	NR	R	R (see Note 4)	R	NR	50 000	(5 000) (see Note 6)	(see Note 14)	NR		
INSTITUTIONAL BUILDINGS (C) (see Note 16)															
a)	Hospitals, Sanatoria and Nursing Homes (C-1)														
1)	Less than 15 m in height with plot area up to 1 000 m ²														
	i) Up to ground plus one storey, with no beds	R	NR	NR	NR	NR	R (see Note 4)	R	NR	NR	(5 000) (see Note 6)	NR	(450) (see Note 6)		

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	ii) Up to ground plus one storey with beds	R	R	NR	NR	NR	R (see Note 4)	R	NR	NR	5 000 (5 000)	NR	450 (450)
	iii) Ground plus two or more storeys, with no beds	R	R	NR	R	NR	R (see Note 4)	R	R	NR	10 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)
	iv) Ground plus two or more storeys, with beds	R	R	R	NR	NR	R	R (see Note 1)	R	75 000	10 000	(see Note 14)	NR
2)	Less than 15 m in height with plot area more than 1 000 m ²	R	R	R	NR	R	R	R (see Note 1)	R	1 00 000	10 000	(see Note 14)	NR
3)	15 m and above but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 10)	NR
4)	Above 24 m and not exceeding 45 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR
b)	Custodial (C-2), and Penal and Mental (C-3)												
1)	Less than 10 m in height												
	i) Up to 300 persons	R	R	NR	NR	NR	R (see Note 4)	R	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
	ii) More than 300 persons	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	15 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)

Table 7 — (Continued)

SI No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
c)	High Hazard (G-3) (see Note 19)												
i)	Covered area up to 50 m ²	R	R	NR	NR	NR	R	NR	NR	NR	10 000	NR	900
ii)	Covered area more than 50 m ² and up to 150 m ²	R	R	NR	NR	NR	R	R	R	NR	25 000	NR	900
iii)	Covered area more than 150 m ² and up to 300 m ²	R	R	R	NR	NR	R	R	R	50 000	10 000	(see Note 14)	NR
iv)	Covered area more than 300 m ² and up to 500 m ²	R	R	R	NR	R	R	R	R	100 000	20 000	(see Note 10)	NR
v)	Covered area more than 500 m ²	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR
STORAGE BUILDINGS (H) (see Note 20)													
1)	Below 15 m in height and covered area less than 250 m ²	R	R	NR	NR	NR	R	NR	NR	NR	25 000	NR	900
2)	Below 15 m in height and covered area more than 250 m ²												
i)	Ground floor only	R	R	R	NR	R	R	R	R	50 000	10 000	(see Note 14)	450
ii)	Ground plus one floor	R	R	R	NR	R	R	R	R	75 000	10 000	(see Note 10)	450

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation						Water Supply (litre)		Pump Capacity (litre/min)			
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Comer	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	iii) More than one floor ground plus	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 10)	450
3)	Multi-Level Car Parking (MLCP)	R	R	R	NR	R	R	R	NR	150 000	10 000	(see Note 11)	900

HAZARDOUS BUILDINGS (J) (see Note 20)

1)	Up to 15 m in height												
	i) Single Storey Building	R	R	R	NR	R	R	R	R	Minimum 240 min firefighting requirements	NR	(see Note 21)	NR
	ii) More than one floor building but not exceeding 15 m	R	R	R	R	R	R	R	R	Minimum 240 min firefighting requirements	50 000	(see Note 21)	900

R – Required
NR – Not Required

NOTES

1 MOEPA System shall also include walk-back system and public address system for the occupancies given in the table for (d) (1) (iii) under A-5, (a) (1) (iv) and (a) (2) under C-1, and (a) (2) under D-1 to D-5, in all buildings 15 m and above in height, except for A-3 and A-4 occupancies where these shall be provided for buildings of height 24 m and above. These shall also be provided in car parking areas more than 300 m² and in multi-level car parking irrespective of their areas.

2 Automatic detection and alarm system is not required to be provided in car parking area. Such detection system shall however be required in other areas of car parking such as electrical rooms, cabins and other areas.

3 Buildings above 15 m in height are not to be permitted for occupancies A-1 and A-2.

4 Required to be installed in basement, if area of basement exceeds 200 m².

5 Required to be provided if basement area exceeds 200 m².

Table 7 — (Concluded)

6	Additional value given in parenthesis shall be added if basement area exceeds 200 m ² .
7	Required to be provided for buildings with more than two storeys (Ground + One).
8	Required to be provided for buildings with height above 15 m and above.
9	Sprinklers shall be fed water from both underground static water storage tank and terrace tank.
10	Provide required number of sets of pumps each consisting of one electric and one diesel pump (stand by) of capacity 2 280 litre/min and one electric pump of capacity 180 litre/min (see Fig. 11) (see also notes 22 and 23).
11	Provide required number of sets of pumps each consisting of two electric and one diesel pump (stand by) of capacity 2 280 litre/min and two electric pump of capacity 180 litre/min (see Fig. 12) (see also Notes 22 and 23).
12	Provide required number of sets of pumps each consisting of two electric and one diesel pump (stand by) of capacity 2 850 litre/min and two electric pump of capacity 180 litre/min (see Fig. 12) (see also Notes 22 and 23).
13	Lower levels in high rise buildings 60 m or above in height 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.
14	Provide required number of sets of pumps each consisting of one electric and one diesel pump (stand by) of capacity 1 620 litre/min and one electric pump of capacity 180 litre/min (see Fig. 11) (see also Notes 22 and 23).
15	Required to be provided for buildings with more than one storey.
16	Buildings above 30 m in height not to be permitted for Group B, Group C, Group D and Group F occupancies.
17	The requirements given in this table for Group G Industrial Buildings are for small scale industry units. For other industries the requirements will have to be worked out on the basis of relevant Indian Standards and also in consultation with the local fire authorities.
18	Buildings above 18 m in height not to be permitted for G-1 and G-2 occupancies.
19	Buildings above 15 m in height not to be permitted for G-3 occupancies.
20	Buildings above 15 m in height not to be permitted for Group H and Group I occupancies. However, buildings above 45 m in height shall not be permitted for multi-level car parking (MLCP) occupancy.
21	Pump capacity shall be based on the covered area of the building.
22	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.
23	Alternative to provisions of additional set of pumps, the objective can be met by providing additional diesel pump of the same capacity and doubling the water tank capacity as required for one set of pumps.
24	As per the requirement of local authority dry riser may be used in hilly areas, industrial areas or as required.

