



Government of West Bengal
Office of the Director General
West Bengal Fire & Emergency Services
13D, Mirza Ghalib Street, Kolkata – 16

Memo No.: FSR/WBFES/5994/14/How-RB/933/14(933/14)

Date : 16-12-2024

From :
Director
Fire Prevention Wing
West Bengal Fire & Emergency Services

To :
KOLKATA WEST INTERNATIONAL CITY PVT. LTD.
PLOT R2B, VICHITRA, KOLKATA WEST INTERNATIONAL CITY, SALAP JUNCTION, P.S.- DOMJUR, DIST.
HOWRAH, PIN CODE-711403.

Sub : Revised Fire Safety Recommendation for Proposed Tower (namely T2-A) G+21 Storied under group Residential building of Housing Complex at Plot no.- R2B, Kolkata West International City, (near Salap More), Howrah- 711403..

This is in reference to your AIN 211882406300001009 dated 05-Nov-2024 regarding the Revised Fire Safety Recommendation for Proposed Tower (namely T2-A) G+21 Storied under group Residential building of Housing Complex at Plot no.- R2B, Kolkata West International City, (near Salap More), Howrah- 711403..

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this office is issuing Revised Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the

Recommendation :

The Fire Safety Recommendation Which Was Issued Earlier From This Office Vide Memo No. Wbfes/5994/14/How-Rb/933/14(933/14) Date: 4/12/2014 Shall Remain Same And Strictly To Be Followed.

In addition with-
Firefighting Shaft:



An enclosed shaft having protected area of 120 min fire resistance rating comprising protected lobby, staircase and fireman's lift, connected directly to exit discharge or through exit passageway with 120 min fire resistant wall at the level of exit discharge to exit discharge.

1. These shall also serve the purpose of exit requirement/strategy for the occupants.
2. The respective floors shall be approachable from fire fighting shaft enabling the fire fighter to access the floor and also enabling the fire fighters to assist in evacuation through fireman's lift.
3. The fire fighting shaft shall be equipped with 120 min fire doors.
4. The fire fighting shaft shall be equipped with fireman talk back, wet riser and landing valve in it lobby, to fight fire by fighter.
5. Fire fighting Shaft will have to be provided as per NBC Part-4 Fire & Life Safety 2016 Clause 2.24.

Pressurization of staircase/Lift. (if any):

1. The pressurization system shall be interconnected with the automatic/ manual fire alarm system for actuation.
2. The combination of pressurized & naturally ventilated staircases in the same building may be permissible, if they are segregated by suitable compartmentation.
3. Where ever pressurized staircases is to be connected to unpressurized areas, the two areas shall be segregated.
4. A positive pressure of 25-30 pa. shall be maintained inside the lift lobby. Pressurization shall be maintained round the clock and staircase 50 Pa.

FIRE PUMP: (In lieu of previous recommendation)

1. Pump capacity shall be based on the covered area of the building. Lower levels in high rise buildings 60mtrs. and 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 shall have to be maintained.
2. Provision of the Fire Pump of 2850 LPM capacity shall have to be made to supply water at the rate-designed pressure and discharge into the Water based system, which shall be installed in the respective pump room.
3. Provision of separate pump of 2850 LPM capacity for sprinkler system shall have to be made to keep the Water based system under pressurized condition at all the time.
4. One common Diesel driven pump of 2850 LPM capacity shall always be kept on stand-by.
5. Provision of Jockey Pumps (Hydrant & Sprinkler) shall also have to be made to keep the Water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably be of positive type or in case of negative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.
6. Additional 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.

SPRINKLER INSTALLATION: (In lieu of previous recommendation)

1. The automatic Sprinkler installation shall be provided in the Basement (pump room) and in all floor areas of the building including inside of flats, lobbies and corridor area as per I.S. 9972 and alarm gong to be incorporated along with the sprinkler system.
2. Drain line from each floor will have to be provided to avoid stagnancy of water in the sprinkler line.



valve at terrace level will have to be provided for periodical checking & testing.

4. Pressure gauge & Air release valve at the top of each sprinkler riser will have to be provided.

REFUGE AREA :

1. Refuge area is not less than 15 Sqm. Shall be provided on the external wall with cantilever projection or other suitable means at above 24m levels then after 15mtrs above of the building as shown in the drawings.

2. The Refuge areas shall be of Fire resisting construction and protected with self-closing F.C.D. at the entrance from the corridors at staircase lobbies.

3. The position of Refuge areas shall be such so that they are negotiable by the Fire Services Ladder from the Ground.

MULTI LEVEL CAR PARKING : (if any)

1 A parking structure having each parking level wall opening open to atmosphere, for an area of not less than 0.4m² for each linear metre of its exterior perimeter shall be constructed as open parking structure. Such opening shall be distributed over 40percent of the building perimeter or uniformly over two opposing sides. Interior wall lines shall be at least 20percent open, with opening distributed to provide ventilation, else the structure shall be deemed as enclosed parking structure.

2 All parking areas sprinklers and hydrant systems shall be provided as per I.S. Specification.

3 All parking areas appropriate/ suitable detection systems shall be provided as per I.S. Specification.

4 Each floor surface shall be noncombustible, sloping towards drains to remove accumulation of oils, lubricant and water etc.

On compliance of all the above Fire and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation, Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of fire & life safety aspects of the buildings.

N.B. Any deviation and changes the nature of use of the building in respect of approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.



Director

West Bengal Fire and Emergency Services