

**GOVERNMENT OF WEST BENGAL**  
**OFFICE OF THE DIRECTOR GENERAL**  
**WEST BENGAL FIRE & EMERGENCY SERVICES**  
13-D, Mirza Ghalib Street, Kolkata 700 016

Memo No.: WBFS/ 1987/15/24 Pgs (S) - RB/133/15 Date: 17.03.15

From: Director in Charge  
West Bengal Fire & Emergency Services

To: The Director  
Jasmine Commtrade Pvt. Ltd.  
456, Dwarir Road,  
Ward No. 25, Rajpur-Sonarpur Municipality,  
Kolkata 700 151



**Subject: Fire Safety Recommendation for proposed 8 blocks of G+IV storied Residential Occupancy at premises 456, Dwarir Road, Ward No. 25, Rajpur Sonarpur Municipality, Kolkata 700 151**

This is in reference to your letter no. Nil dated 19/01/2015 regarding fire safety measure for proposed eight blocks of G+IV storied Residential Building Blocks at premises no. 456, Dwarir Road, Ward No. 25, L.R. Dag No. 505, 506, 582, 583, 584, 586, 587, 588, 589, J. L. No. 71, Rajpur Sonarpur Municipality, Mouja - Jagaddal, Kolkata 700 151.

The plan drawings 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 Fire Safety Recommendation in favour of the aforesaid building blocks subject to compliance of the enclosed fire safety measures.

Enclosed:

1. One set plan
2. Fire Safety Recommendation placed in file

  
Director in Charge

West Bengal Fire & Emergency Services

## FIRE SAFETY RECOMMENDATION

### A. CONSTRUCTION

1. The floor area exceeds 750 m shall be suitably compartmented by separation walls up to ceiling level having at least two hours fire resisting capacity.
2. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
3. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
4. Arrangement shall have to be made for sealing all the vertical ducts by the materials of adequate fire resisting capacity.

### B. STAIRCASE

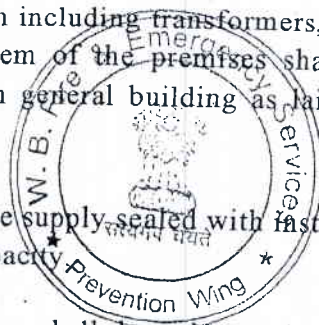
1. The staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external wall of the building.
2. All the staircases should reach the terrace of the building connecting all floor levels.

### C. FIRE FIGHTING WATER

1. Underground water reservoir having water capacity of 50,000 Liters capacity exclusively for firefighting purpose with replenishing arrangement of minimum @ 650 LPM preferably from two different sources of water supply shall be provided. The fire water reservoir shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.
2. Provision should be made for injection of water in the fire water reservoir from the existing pond adjacent to the premises in case of emergency through suction hose.

### D. ELECTRICAL INSTALLATION & DISTRIBUTION

1. The electrical installation including transformers, Switch gears, main and meters etc. and the distribution system of the premises shall be made satisfying the code of practice for fire safety in general building as laid down in I.S. specification 1946-1982.
2. The vertical ducts shall be supply sealed with installation of check doors of minimum 1 hours fire resistance capacity.
3. The electrical installation shall be adequately protected with CCL / D.C.P. or medium velocity projector system.



4. **Alternative Power Supply**

Arrangement shall have to be made to supply power with the help of a generator to operate at least the fire pump, pump for deep tube well, fire alarm system, fire lift etc. and also for illuminating the staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

**E. DETECTION, ALARM AND SUPPRESSION SYSTEM**

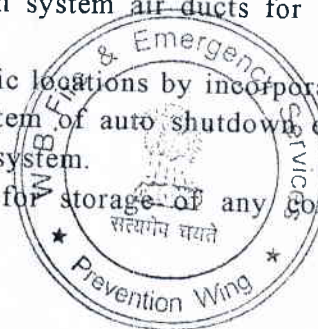
1. Auto fire alarm system with smoke / thermal detectors as per suitability shall be installed in community hall, gymnasium, electrical rooms and indoor games areas.
2. Manual Call Boxes incorporating with sounders should be installed in all floor areas of all the blocks in such a manner that the maximum travel distance is not more than 22.50 m in order to reach any of the call points.
3. Microprocessor based Fire Alarm Panel with adequate number of loops/zones should be installed connected with main panel at the Fire Control Room having direct dialing facility to the local fire station.
4. Hooters will be sounded in such a manner so that an operation of a detector or manual call point hooters will be sounded on the same floor and immediate alternate floor.
5. **Public Address system**  
Public address system linked between all areas and control room shall have to be established.
6. All the installation shall satisfy I.S. 2189 (as amended) and the code of practice as laid down in the NBC part 4.

**F. AIR CONDITIONING SYSTEM (If Any)**

1. The A.H.U. shall be separated for each floor with system air ducts for individual floors.
2. Arrangement shall be made for isolation at strategic locations by incorporating auto dampers in the Air Conditioning system. The system of auto shutdown of A.H.U. shall be incorporated with auto detection and alarm system.
3. The air handling unit room shall not be used for storage of any combustible materials.

**G. FIRST AID FIRE FIGHTING SYSTEM**

First aid fire fighting arrangement in the style of placing suitable type of portable fire extinguishers, fire buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992



**H. GENERAL RECOMMENDATIONS**

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles like HSD.
2. Fire Notice for fire fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Floor numbers and directional sign of escape route shall be displayed prominently.
4. The security staff shall be conversant with installed fire fighting equipments of the building and to operate in the event of fire and testing.
5. Arrangement shall have to be made for regular checking, testing and proper maintenance of all the fire safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.
6. Mock fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
7. Each year a certificate is to be obtained from the **Director General, West Bengal Fire & Emergency Services** certifying about satisfactory services performance of all the life and fire safety arrangements and installation of the building.

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. Final N.O.C. in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

**N.B.:** Any deviation and changes, the nature of use of the building in respect of the approved plan drawing, without obtaining prior permission from this office, will result in cancellation of this safety recommendation.

  
Director in Charge

West Bengal Fire & Emergency Services