

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

Memo No : IND/WB/FES/20182019/47423

DATE: 26/06/2019.

From :

The Director

Fire Prevention Wing,

West Bengal Fire & Emergency Services.

To :

Dipankar Ghosh and Others

2246, Dakshin Panchpota, Ward No.-04, J.L. No.-42, Mouza-Panchpota, P.S.-Sonarpur,
Dist.-24 Pgs(S) Under Rajpur Sonarpur Municipality

Baruipur F.S., sonarpur,

South 24 Parganas - 700099 .

Sub :Fire Safety Recommendation for a proposed construction of Residential Complex, comprising of 04 nos. G+V storied Residential Building termed as Block A, Block B, Block C and Block D respectively, at the Holding no. HOLDING NO. 2246, DAKSHIN PANCHPOTA , WARD NO. 04, J.L. NO. 42, R.S. Dag No- 568, Khatian No.- 1856, 1857, 1858, MOUZA - PANCHPOTA, P.S. SONARPUR, DIST. 24 PGS. (S), UNDER RAJPUR SONARPUR MUNICIPALITY.

This is in reference to your Application No. IND/WB/FES/20182019/47423,dated 26/06/2019, regarding the Fire Safety Measure for a proposed construction of Residential Complex, comprising of 04 nos. G+V storied Residential Building termed as Block A, Block B, Block C and Block D respectively, at the Holding no. HOLDING NO. 2246, DAKSHIN PANCHPOTA , WARD NO. 04, J.L. NO. 42, R.S. Dag No- 568, Khatian No.- 1856, 1857, 1858, MOUZA - PANCHPOTA, P.S. SONARPUR, DIST. 24 PGS. (S), UNDER RAJPUR SONARPUR MUNICIPALITY..

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 is issuing Fire Safety Recommendation in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

1. RECOMMENDATION

A. CONSTRUCTION:

1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
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. Arrangements shall have to made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

B. OPEN SPACE & APPROCH:

1. The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
2. Load bearing capacity of entire means of access and driveway shall be not less than 45 M.T.
3. The approach roads shall be sufficiently strong to withstand the load of Fire Engine Weighing up to 45 M.T.
4. The width and height of the access gates into the premises shall be not less than 5.0 M and open to sky respecting the abutting road.

C. STAIRCASE:

1. The staircase of the buildings shall be made of bricks / R.C.C type having Fire resisting capacity not less than 2 hours.
2. The Staircase of the buildings shall have permanent vents at the top and openable sashes at each floor level in the external wall of the buildings.
3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant building rules as well as relevant I.S specification.
4. All the staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any occupied area.
5. Fire and smoke doors at the entrances of the staircase enclosures as marked / shown in the plan at each floor level of each block shall be provided. The F.C.D. shall be of at least one hour Fire resisting, wire glass window fitted, with self-closing type open able in the direction of escape.

D. LIFT:

1. The walls of the lift enclosure shall be at least two hours Fire Resisting type.
2. Collapsible gate shall not be permitted.

3. The lifts of each block shall be designed for Fire Lift. The Word "FIRE LIFT" shall conspicuously be written at ground floor.

E. FIRE FIGHTING WATER:

Under ground water reservoir of 50,000 Ltr. Capacity and Overhead reservoirs not less than total capacity of 10,000 Lts. on each block exclusively for Firefighting purpose with replenishing arrangements @ 1000 lts./min preferably from two different sources of water supply shall be provided. The Water Reservoirs shall have overflow arrangement with the domestic Water Reservoir as well as to avoid stagnancy of water. The water reservoirs shall be kept full at all time.

F. HYDRANT SYSTEM:

1. Each block shall be provided with one no. 100 mm internal diameter Pipe Line down comer with provision of landing valves and 2 nos. separate such down comer for commercial space at the Staircase landings/half landings along with hose reel hose connected to terrace tank through the terrace pump at 900 LPM capacity. The system shall be so designed that shall be kept charged with Water all the time under pressure and shall not be less than 3.5 Kgs/Sq. cm. One such terrace pump of equal capacity shall be installed as stand by fire pump for each block. All other requirements shall conforming I.S. 3844-1989.

2. Provision of standard Hose Reel Hose with down comer shall have to be made in all the floor of the building as per relevant I.S specification.

3. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

4. Water based suppression system for commercial space & entire ground floor area of Block A & B shall be fed by both the OHWR and terrace pumps of Block A & B.

5. Provision of suitable Fire Service Inlet shall be made as per relevant I.S specification.

G. SPRINKLER INSTALLATION:

The automatic Sprinkler installation shall be provided in the Commercial space, entire ground floor car parking area and assembly area of each block as per relevant I.S. specification. Alarm gong to be incorporated along with the sprinkler system.

H. ELECTRICAL INSTALLATION & DISTRIBUTION:

1. Electrical distribution system of the building shall be made in the form of concealed wiring or in heavy gauge M.S. conduit, continuously bonded to the earth. Cables shall be I.S.

marked and preferably be of F.R.L.S. categories.

2. Electrical distribution System shall conform all the requirements as laid in I.S. 1646-1982.

3. The electrical installation shall be adequately protected with automatic fire detection and suppression system as per relevant I.S specification.

4. Alternate Power Supply:

Arrangements shall have to be made to supply power with the help of a generator to operate at least the Fire Pumps, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

I. DETECTION AND ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least two numbers of break glass type call boxes fitted with Hooters at each floor of each block, connecting with visual panel board shall be made in Control Room. The Control Room shall be located at the entrance of Ground Floor of the building, other requirements of the system shall be made conforming I.S. 2189 - 1988.

2. Auto fire detection system with the help of heat and smoke detector shall be installed in all places of below and preferably above false ceiling of commercial space and assemblies areas. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.

3. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.

J. AIR CONDITIONING SYSTEM (if any) :

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors.

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system.

3. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.

4. The air handling units room shall not be used for storage of any combustible materials.

K. 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.

L. GENERAL RECOMMENDATIONS:

1. Necessary sanction and approval for such construction and occupancy must be obtained from competent authorities.

2. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other combustible articles (if any).

~~3. Disposable type BA must to be kept ready in adequate number for any fire related and~~

3. Disposable type BA must to be kept ready in adequate number for any fire related and

other purposes.

4. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
5. Floor numbers and directional sign of escape route shall be displayed prominently.
6. The occupants and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.
7. Arrangement shall 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.
8. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
9. A crew of trained Fireman shall be maintained round the clock for safety of the building.

10. A certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, regarding performance of all the Life & 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, Fire Safety Certificate 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, this Fire Safety Recommendation will be treated as cancelled.

Director
West Bengal Fire & Emergency Services

Signature valid
Digitally signed by TARUN
KUMAR SINHA
Date: 2019.06.26 16:16:24 IST