

**GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIVISIONAL FIRE OFFICER
WEST BENGAL FIRE & EMERGENCY SERVICES**

Memo No : IND/WB/FES/20192020/77492

DATE: 08/01/2020

From :

**The Divisional Fire Officer
Fire Prevention Wing,
West Bengal Fire & Emergency Services.**

To :

S B PROPERTIES

**Proposed Five Storied Residential cum Commercial Building of S.B.Properties at R.S Plot No.12, L.R Plot No.30, Khatian No.2583, Mouza-Sankarpur, J.L No.109, P.S-Newnship, Durgapur
Durgapur F.S., N.T.P.S. Durgapur PS,
Paschim Bardhaman - 713212 .**

Sub :Fire Safety Recommendation for a proposed construction of G + 4 storied building under group Residential at the premises no.- Proposed Five Storied Residential cum Commercial Building of S.B.Properties at R.S Plot No.12, L.R Plot No.30, Khatian No.2583, Mouza-Sankarpur, J.L No.109, P.S-Newnship, Durgapur, N.T.P.S. Durgapur PS, Paschim Bardhaman - 713212

This is in reference to your Application No. IND/WB/FES/20192020/77492, dated 08/01/2020, regarding the Fire Safety Measure for a proposed construction of G + 4 storied building under group Residential at the premises no.- Proposed Five Storied Residential cum Commercial Building of S.B.Properties at R.S Plot No.12, L.R Plot No.30, Khatian No.2583, Mouza-Sankarpur, J.L No.109, P.S-Newnship, Durgapur, N.T.P.S. Durgapur PS, Paschim Bardhaman - 713212.

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. RECOMMENDATIONS

A. CONSTRUCTION :

1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant rules Panchayet/ Municipal Corporation .
2. The Floor area exceeds 750 m² shall be suitably compartmented by separation walls up to Ceiling level having at least two hrs. Fire Resisting capacity.
3. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
4. Provision of ventilation at the Central core-duct of the building shall be provided.
5. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire Resisting capacity.

B. OPEN SPACE & APPROACH ROAD :-

1. The open space of the surrounding building shall conform the relevant buildings rules as well as to permit the easy accessibility and maneuverability of Fire Appliances with turning facilities.
2. The approach road shall be sufficiently strong to with stand the load of Fire Engine weighting up to 20 M.T.
3. The width and height of the access gates into the premises shall not be less than 4.5 M and 5 M respectively abutting the road.

C.

STAIR CASES :-

1. One another stair will be construct at the opposite side .The stair cases of the building shall be enclosed /R/C/C/ type made of bricks having Fire Resisting capacity not less than 4 hrs. & two stair cases for each block shall be provided.
2. The stair cases of the building shall have permanent vents at the top and open able sashes at each floor level in the external wall of the building.
3. The width of the stair cases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules and well as rules of the cinematograph Act, With up-to-date amendments.
4. All the stair cases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
5. Fire and smoke check doors at the entrances of all stair case enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire glass window fitted with self closing type openable in the direction of escape.

D. LIFT :- (IF ANY):

1. The walls of the lift enclosure shall be at least two hr. Fire Resisting type collapsible gate shall not be permitted.
2. One of the lift shall be designed for Fire lift The work 'FIRE LIFT' shall conspicuously

written at ground floor.

E. FIRE FIGHTING WATER :-

1. Underground W/R having Water capacity 50,000 lts. and over head reservoir of 10,000 lts exclusively for Fire Fighting purpose with replenishing arrangements @ 1000 lts/min. preferably from two different sources of water supply shall be provided.

F HYDRANT AND WATER LAY OUT SYSTEM :-

1. Provision for hose reel in conjunction with Wet riser-cum- down comer of 150 mm dia having landing valve at each floor, connected to overhead reservoir through Booster Pump of 1200 LPM shall be made conforming the relevant I.S. specifications.

Yard hydrant/Ring main type at least three numbers hydrant shall be installed surrounding the building in accordance with relevant I.S. specification.

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

G. SPRINKLER INSTALLATION :-

1. The automatic sprinkler installation shall be provided in the office Commercial floor area of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.

H. ELECTRICAL INSTALLATION & DISTRIBUTION:-

1. The electrical installation including transformers, switch gears, Main & 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 supplied sealed at alternative floor level.

3. The electrical installation shall be adequately protected with CO2 /D.C.P. or Medium Velocity water projector system.

4. Alternative power supply: - Arrangements shall be made to supply with the help of generator to operate at least the Fire pump, pump for deep tube well, Fire Alarm system, Fire lift etc. and also illuminating the stair case, corridors, exit etc. of the building in case of normal power failure.

I. DETECTION ALARM SYSTEM :-

1. Manually operated Electrical Fire Alarm system with at least three nos. of break glass type call boxes fitted with hooters along with P.A. system, tack back facilities at each floor connecting with audio- visual panel board shall be made in the control room. The control room shall be located at the entrance of the 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 in office area of the building. 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. 2189-198.

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.

4.

J. A.C.SYSTEM :- (If any) :-

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

b. Arrangement shall be made for isolation at the strategic Locations by incorporating Auto Dampers in the A.C.System.

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

d. The air handling unit's 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) Fire notice for Fire Fighting installations and evacuation from the building shall be prepared and displayed at all vulnerable places of the building.

2) Floor nos. and directional sign of escape route shall be displayed prominently.

5. The employees and security staff shall be conversant with installed the Fire Fighting equipments of the building and to operate in the event of Fire and testing.

6. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installations and equipments installed in the building to keep them in perfectly good working condition at all times.

7. A crew of trained Fireman under experienced officer shall be engaged round the clock for safety of the building.

8. Mock Fire Drill and Evacuation drill shall be performed periodically with participation of all occupants of the building.

9. A Fire safety certificate is to be obtained from the DFO (BDN)DIVISION West Bengal Fire & Emg. Services certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the building.

10. Violation any of the above recommendations. shall be treated as cancelled as legal action may be taken as per existing F.S. Act & Rules 1950 (Amended up to date).

11. If any other dispute arise in future regarding land and other Fire Service will not responsible for this.

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.

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**Divisional Fire Officer
West Bengal Fire & Emergency Services**

Signature valid

Digitally signed by NITAI
CHATTOPADHYAY
Date: 2020.01.08 11:31:11 IST