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**GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIVISIONAL FIRE OFFICER
WEST BENGAL FIRE & EMERGENCY SERVICES
L.M. Dey Garden, D.H. Road, Silpara, Pin - 700008**

Memo No : IND/WB/FES/20192020/54250

DATE: 28/05/2019

From :

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

To :

DAKSHINI GREEN CITY PROJECTS PVT LTD
DAKSHINI, KHARIBERIA, PS-BISHNUPUR, DIST.-SOUTH 24PGS.
Behala F.S., Bishnupur,
South 24 Parganas - 743503 .

Sub :Fire Safety Recommendation for Two(02) Numbers of proposed G + IV storied building under Group Residential at the premises no.- DAKSHINI, KHARIBERIA, P.S.- BISHNUPUR, DIST.- SOUTH 24PGS., PIN - 743503.

This is in reference to your Application No. IND/WB/FES/20192020/54250, dated 28/05/2019, regarding the Fire Safety Measure for Two(02) Numbers of proposed G + IV storied building under Group Residential at the premises no.- DAKSHINI, KHARIBERIA, P.S.-BISHNUPUR, DIST.- SOUTH 24PGS., PIN - 743503..

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. CONSTRUCTION

- I.The interior finish decoration of the building shall be made with the materials of low flame and low smoke categories conforming I.S specification.
- II.Construction and lay out of existing building shall be remain same as per approved plan

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Director.

and shall never be altered without prior approval of this Department.

OPEN SPACE & APPROACH

- I. The approach roads shall be sufficiently strong to withstand the load of fire tender weighing up to 20 MT.
- II. The width and height of the access gates into the premises shall not be less than 4.5 – 5 Mtrs. respecting abutting the road.

STAIRCASE

- I. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks R.C.C. type having fire resisting capacity not less than 4 hours.
- II. The width of the staircase shall be made as shown in the plan. Corridors and exit door shall confirm the relevant building rules with up to date amendment.
- III. All the staircases shall be extended up to top floor level of the building and shall be negotiable to each other without entering into room.

LIFT :

- I. The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.


EXIT

- I. No exit door from any room of any floor in a distance is not more than 22.5 mtr. If so another staircase must be provided.
- II. Exits shall be so arranged that at least two separate exits are available in each floor part area. Exit shall be as remote from each other as practicable and so arranged that there are no pockets or dead end occurred in which occupants may be trapped.
- III. Every exits doorway shall open into a horizontal exit of a Corridor.

FIRE FIGHTING WATER & FIRE PUMP

- I. Underground water reservoir having water capacity of 50,000 Liters and overhead water reservoir having capacity 10,000 Liters are to be provided exclusively for firefighting purpose in each building with suitable replenishing arrangement. Provision of standard hose reel hose supplied from the overhead reservoir through booster pump shall have to be made in each landing / half landing of the building satisfying the code of I.S specification 3844, - 1989 and another booster pump of same capacity to be installed as standby pump. The water reservoir shall have overflow arrangement to avoid stagnancy of water. The water reservoirs shall be kept full at all time.
- II. The building shall be provided with down comer of 100 mm internal diameter pipe line in stair well in each building. Hose Reel should be installed connected with down comer at each landing / half landing the rate of one such down comer for 1000 sq.m. of floor area. The

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system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge minimum 900 liters/min at the top most outlets. In all cases, the running pressure shall not be less than 3.5 kg/cm². All other requirements shall be in confirming with I.S. 3844-1989. Adequate numbers of Hydrant shall be installed at each half landing and surrounding the building in accordance with relevant I.S specification.

III. Glass fitted wooden boxes near each Hydrant outlet contain two nos. of permaline delivery hoses and suitable Branch Pipe and Nozzle at landing / half landing of the stair case in each floor to be provided as per relevant I.S Specifications.

IV. Provision of Fire Service inlet should be there (Near main entrance) to inject water into the installed wet riser from external source during emergency period.

ELECTRICAL INSTALLATION & DISTRIBUTION

I. 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.

II. The electrical installation shall be adequately protected with CO₂/D.C.P. extinguisher.

III. The vertical ducts shall be supply sealed at alternative floor level.

IV. Alternative Power Supply: Arrangements shall have to make to supply power with the help of a Generator / DJ set to operate at least the Fire Pimp, pump for deep tube-well, Fire Alarm System etc. and also for illumination the staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

DETECTION, ALARM AND SUPPRESSION SYSTEM

I. Manually operated Electrical Fire Alarm System with at least two numbers (each floor) of break glass type call boxes fitted with Hooters along with public address system.

II. Auto fire detection system with the help of smoke detector shall be installed in accordance with I.S. 2189-1988.

FIRST AID FIRE FIGHTING SYSTEM

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

GENERAL RECOMMENDATION

I. Fire License shall have to be obtained for proposed storing and processing with LPG and other highly combustible articles.

II. Adequate Fire Mask to be provided.

III. Fire Notice for Fire Fighting and Evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

IV. Floor Nos. and directional sign of escape route shall be displayed prominently.

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

VI. 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 time.

VII. A trained Fireman shall be maintained round the clock for safety of the building.

On compliance of all the above Fire and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approach for necessary inspection and testing of the installation, final Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with test and performance of safety aspects of installation of the building.

N.B. Any deviation and changes in 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.

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

Signature Not Verified
Digitally signed by DIPAK
KUMAR GHOSH
Date: 2019.05.29 19:22:46 IST

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Debo Prasad Ghosh
Director.