

**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/20182019/41911

DATE: 18/03/2019

From :
The Director
Fire Prevention Wing,
West Bengal Fire & Emergency Services.

To :
Sanjay Gupta
R.S./L.R. DAG NO.-1951(P), 1952(P), 1954(P), 1955, 1956(P), 1958 AT MOUZA -
CHAKPACHURIA, J.L. NO.-33, R.S. NO.-205.1/2 P.S.-RAJARHAT NOW UNDER NEW
TOWN
Bidhan Nagar F.S., New Town,
North 24 Parganas - 700156 .

Sub :Revised Fire Safety Recommendation for proposed construction of G + IX storied building under group Residential Building at the premises no.- R.S./L.R. Dag No. -- 1951(P), 1952(P), 1954(P), 1955, 1956(P), 1958 R.S. no. – 205. 1/2, J.L. No. – 33, Mouza – Chakpanchuria, J.L. No. – 33, P.S. – New Town, District – 24 Parganas (North).

This is in reference to your Application No. IND/WB/FES/20182019/41911, dated 18/03/2019, regarding the Fire Safety Measure for proposed construction of G + IX storied building under group Residential Building at the premises no.- R.S./L.R. Dag No. -- 1951(P), 1952(P), 1954(P), 1955, 1956(P), 1958 R.S. no. – 205. 1/2, J.L. No. – 33, Mouza – Chakpanchuria, J.L. No. – 33, P.S. – New Town, District – 24 Parganas (North)..

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

Recommendation:

1. CONSTRUCTION :

- 1.The whole construction of the proposed buildings shall be carried out as per approved plan drawings conforming the relevant building rules of local municipal authority .
- 2.The floor area exceeds 750 Sq.Mts. shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity.
- 3.The interior finish decoration of the buildings shall be made low flame spread materials conforming I.S. specifications.
- 4.Provision of ventilation at the crown of the central core-duct of the buildings shall be provided.
- 5.Arrangements shall have to be made for sealing all the vertical and horizontal ducts, shafts by the materials of adequate Fire resisting capacity.

OPEN SPACE & APPROACH :

- 1.The open space surrounding the buildings shall conform the relevant buildings rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
- 3.The width and height of the access gates into the premises shall not be less than 4.5 Mtr. and 5 Mtr. respecting abutting the road.

STAIRCASE :

- 1.The staircase of the buildings shall be enclosed type. Entire construction shall be made of bricks/R.C.C. type having Fire resisting capacity not less than 4 hours.
- 2.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 buildings.
- 3.The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules with up to date amendment.
- 4.All the staircases shall be extended from ground floor to the terrace of the buildings and shall be negotiable to each other without entering into any room.
- 5.Fire and smoke doors at the entrances of all the staircase 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.

LIFT :

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

2. One of the lift shall be designed as Fire Lift. The word "FIRE LIFT" shall conspicuously written in fluorescent paint on the lift landing doors at each floor level.
3. Alternate source of power supply shall be provided for all lifts through manually operated change over switch.
4. In case of failure normal electric supply it shall automatically trip over to alter supply.
5. The Speed of the fire lift shall be such that it can reach the top floor from ground level within one minute.

6. Lift communication system shall be provided in the lift and this system shall be connected to fire control room of the buildings.

REFUGE AREA :

1. Refuge area is not less than 15sqm. Shall be provided on the external wall with cantilever projection or other suitable means at 25.0mtr. level of the buildings as shown in the plan.
2. The refuge area shall be of Fire Resisting construction and protected with self closing F.C.D. at the entrance from the corridor or the staircase lobbies.
3. The position of Refuge areas shall be such that they are negotiable by the fire service ladder from the ground.
4. Refuge area shall be provided with sprinklers, first aid box, fire extinguishers, P.A. speaker, Fire man talk back and adequate emergency lighting as well as drinking water facility.

FIRE FIGHTING WATER :

Underground water reservoir having water capacity of 50,200Ltr. & Overhead water reservoir having water capacity of 27,000 capacity exclusively for Fire Fighting purpose with replenishing arrangement @ 1000 Ltrs./Min. 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. Provision of manhole shall be made on the top of the reservoir to collect water at the time fire as per I.S. specification.

HYDRANT SYSTEM :

1. The buildings shall be provided with Wet Riser of 100 mm internal diameter pipe line with provision of landing valves at the staircase landing/half landings at the rate of one such riser for 1000 Sq.Mt. of floor area. The system shall be so designed that be kept charged with

Water all the time under pressure and capable to discharge 2280 Ltrs./Min. at the ground floor level outlet and minimum 900 Ltrs./Min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs./Sq.cm. All other requirements shall conform I.S. 3844-1989.

2.Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level conforming the relevant I.S. specification.

3.Yard Hydrant &Ring Main Hydrant with provision of adequate numbers Hydrant alongwith Fire Service inlet shall be installed surrounding the building in accordance with relevant I.S. specification.

FIRE PUMP :

Provision of the Fire Pump 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 buildings. One such pump shall always preferably be kept on Stand-by of diesel driven type. Provision of Jockey Pumps 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.

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 the I.S. specification 1946-1982.

2.The ducts shall be supply sealed at all floor level.

3.The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity Projector System as per I.S. Specification.

4.Alternative Power Supply :

Arrangements shall have to be made to supply power with help of a generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Alarm System, Fire Lift, pressurization fans and blowers,smoke extraction and damper systems etc. and also for illuminating the Staircase, Corridors, fire refuge areas etc. and other places of assembly of the buildings incase of normal power failure.

MCP AND ALARM SYSTEM :

1.Manually operated electrical fire alarm system with break glass type call boxes fitted with hooters at each floor level shall be installed in accordance with I.S. 2189-1988.

2.Hooters will be sounded in such a manner so that an operation of a ManualCall Point on

the same floor and immediate alternate floor.

3.Public Address System :

Public Address System linked between all floors and Control Room shall have to be established.

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.

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 including basements and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992.

GENERAL RECOMMENDATIONS :

- 1.Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
- 2.Lightning protection for buildings shall be provided as per Part 8 'Building Services', Section 2 Electrical installations.
- 3.Fire Notice for Fire Fighting and evacuation from the buildings shall be prepared and be displayed at all vulnerable places of the building.
- 4.Floor numbers and directional sign of escape route shall be displayed prominently.
- 5.The occupants and security staff shall be conversant with installed Fire Fighting equipments of the buildings 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 installation and equipment installed in the buildings to keep them in perfectly good working conditions at all times.
- 7.Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
- 8.Close circuit T.V. shall have to be provided for the entire floor area including the basement

area of the building.

9. After obtaining Fire Safety Certificate each year a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performances of all Fire Safety arrangements and installation of the building.

11. On compliance of all the above Fire Safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing

of the installation before occupancy of the buildings; 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 buildings in respect of the approved plan drawings, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Director
West Bengal Fire & Emergency Services

Signature Not Verified
Digitally signed by RATAN
KUMAR HALDER
Date: 2019.03.13 18:51:50 IST