

**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/20172018/758

DATE: 10/01/2018

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

To :
JOYANTO GHOSH
HOLDING NO 289
Dum Dum F.S., Dum Dum,
North 24 Parganas - 700049 .

Sub : Fire Safety Recommendation for null construction of: G + 12 storied building under group Residential at the Premises No.- HOLDING NO 289

This is in reference to your Application No. IND/WB/FES/20172018/758, dated 10/01/2018, regarding the Fire Safety Measure for null construction of G + 12 storied building under group Residential at the premises no.- HOLDING NO 289, Dum Dum, North 24 Parganas - 700049.

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. G.FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 1,25,000 Ltrs. and overhead reservoir of water capacity not less than 8,000 Lts. in each Tower exclusively for Firefighting purpose with replenishing arrangements @ 2000 lts./min preferably from two different sources of

For JUPITER DEVELOPERS

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Partner

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Rajni Banerjee
Partner

water supply shall be provided. The Water Reservoirs shall have overflow arrangement with the domestic Water Reservoirs as well as to avoid stagnancy of water. The water reservoirs shall be kept full at all time.

2. E. REFUGE AREA

1. Each Refuge area is not less than 15 Sq. m. shall be provided on the external wall with cantilever projection or other suitable means at 22.65 M level (2 nos. as shown / marked) for Tower I, at 22.5 M level for Tower II and Tower III as shown in the plan drawings.
2. The Refuge Areas shall be of Fire resisting construction and protected with self-closing F.C.D at the entrance from the corridors at staircase lobbies.
3. The position of Refuge Areas shall be such, so that they are negotiable by the Fire Services Ladder from the Ground.

3. F. BASEMENT:

1. The basement shall be adequately ventilated.
2. The basement shall be protected with Auto Sprinklers system, hydrant and hose reel system etc.
3. Mechanical extractor for Smoke Venting system from basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat/smoke sensitive detector or sprinkling. It shall also have an arrangement to start it manually.
4. Mechanical extractors shall have an alternative source of power supply.

4. 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 floor area exceeds 750 m² 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 building shall be made low flame spread materials conforming L.S. specifications.
4. Provision of ventilation at the crown of the Central core-duct of the building shall be provided.
5. Arrangements shall have to made for sealing all the vertical and horizontal ducts by the materials of adequate Fire resisting capacity.

5. B. OPEN SPACE & APPROACH:

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. The approach roads shall be sufficiently strong to withstand the load of Fire Engine Weighing up to 45 M.T.

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Jayanth Chaitanya
Partner

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Ranjit Singh
Partner

3. The width and height of the access gates into the premises shall not less than 5M and 6 M respectively as shown and respecting the abutting road.

6. C. STAIRCASE:

1. 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.

2. The Staircase of the building shall have permanent vents at the top and openable sashes at the

each floor level in the external wall of the building.

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 amendments.

4. All the staircases 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 doors at the entrances of all the staircases 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.

7. 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. One of the lift in each block shall be designed for Fire Lift. The Word "FIRE LIFT" shall conspicuously written at ground floor.

4. In case of failure of normal electric supply, it shall automatically trip to alternate supply and also shall have manually operated change over facility. Alternatively, the lift shall be so wired that in case of power failure, it comes down at the ground level stands still with door open.

5. All other requirements shall conform the I.S. specification including the communication facility in the lift cars connecting with the Fire Control Room of the building.

8. H. WATER LAYOUT SYSTEM:

1. Each Tower shall be provided with Wet Riser of 100 mm internal diameter Pipe Line with provision of landing valves at the Staircase landings/half landings at the rate of one such riser for 1000 Sq. m of floor area. The system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge 2280 lts/min at the ground floor level outlet and minimum 900 Lts/min at the top most and remotest outlet. In both cases the running pressure shall not be less than 3.5 Kgs/Cm². All other requirements shall conforming I.S. 3844-1989.

2. Separate riser of 100 mm internal dia pipe line each shall be provided for hydrants and automatic sprinkler system respectively for shop occupancy of Tower I.

3. Provision for Hose Reel Hose units on swiveling drum in conjunction with Wet Riser shall be made near each landing valve.

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Partner

4. Yard Hydrant/Ring Main Hydrant with provision of adequate numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S specification.

9. I.SPRINKLER INSTALLATION :

The automatic Sprinkler installation shall be provided in entire basement areas and shop area of the building as per I.S. 9972. Alarm gong to be incorporated along with the Sprinkler System.

10. J.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 building. One such pump of equal capacity shall always be kept on Stand-by of diesel driven type. A separate Fire pump shall be installed for the total Sprinkler installation of the building. Provision of Jockey Pump 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. The suction of pumps shall preferably of positive type or in case of negative suction, the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.

11. K.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 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 CO2/D.C.P extinguishing system.

4.All electrical installation viz. Transformer, Switch Gear, L.T., HT rooms etc. shall be protected with both auto detection and suppression systems as per relevant I.S specification.

5.Alternate Power Supply:

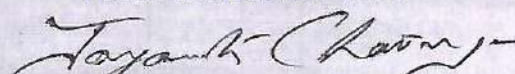
Arrangements shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Detection and Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power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

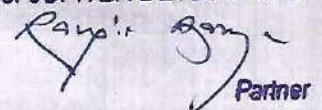
12. L.DETECTION AND ALARM SYSTEM:

1.Addressable analogue manually operated Electrical Fire Alarm system with at least two numbers of break glass type call boxes fitted with Hooters along with public address system, at each floor 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

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the system shall be made conforming I.S 2189-1988.

2.Auto fire detection & alarm system with the help of addressable heat and smoke detector as per suitability shall be installed in all places of below and preferably above false ceiling, corridor, common lobby and lift lobby 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 2189-1988.

3. The suppression system shall be made with Fire Extinguishers particularly in computer and electric processing and data room and in a room of irreplaceable articles.

4.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.

5.Public Address System:-

Public address system linked between all floors and control Room shall have to be established.

13. M.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 location 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 unit room shall not be used for storage of any combustible materials.

14. N.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.

15. O.GENERAL RECOMMENDATIONS:

1.Necessary sanction and approval for such constructions 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.

3.Disposable type B.A. Musk to be kept always for emergency fire situation.

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 occupancy 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.

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8.A crew of trained firemen under an experienced officer shall be maintained round the clock for safety of the building.

9.Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

10.Each year 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 in construction 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.

Director
West Bengal Fire & Emergency Services

Signature valid

Digitally signed by ABHIJIT
PANDEY
Date: 2018.01.10 18:31:15 IST

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