



Government Of West Bengal
Office Of The Director General
West Bengal Fire & Emergency Services
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:WBFES/2644/16/16/24Pgs(N)-
RB/912/14(912/14)

Date: 15-07-2021

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

To: Power Point Buildcon Private Limited and Others
MouzaPatulia,JL No.4,comprised in RS
DagNos.696to700,737,743,744,749,750,754to762,766,768to774,776,777,844to847,849,850,851,853to858,767/1687,770
/1251to770/1254,856/1260,corresponding to LR
DagNos1554to1557,1583,1585to1591,1594to1599,1635,1661,1702to1720,1722to1724,1726,1732to1736,1824,1825,24
pgs(N)

Sub: Revised Fire Safety Recommendation for 7 nos adjacent blocks of G+XIII storied (1E,1F,1G,4A,4B,4C,) 1 no B+G+VII storied MLCP building (3A) & 4 nos proposed construction of which 2 nos G+XII storied residential building as block 5 & 6 & 2 nos G+XIII storied as block 3B & 3C in the name of Power Point Buildcon Private Limited and Others at the Premises no- premises RS Dag Nos. 696to700,737,743,744,749,750,754to762,766,768to774,776,777,844to847,849,850,851,853to858,767/1687,770/1251to770/1254,856/1260, corresponding to LR Dag Nos 1554 to1557,1583,1585to1591,1594to1599,1635,1661,1702to1720,1722to1724,1726,1732to1736,1824,1825,24pgs(n) P.S – Khardaha under patulia gram panchayat.

This is in reference to your application no. 0125188201100239 dated 21-11-2020 regarding the Revised Fire Safety Recommendation for 7 nos adjacent blocks of G+XIII storied (1E,1F,1G,4A,4B,4C,) 1 no B+G+VII storied MLCP building (3A) & 4 nos proposed construction of which 2 nos G+XII storied residential building as block 5 & 6 & 2 nos G+XIII storied as block 3B & 3C in the name of Power Point Buildcon Private Limited and Others at the Premises no- premises RS Dag Nos 696to700,737,743,744,749,750,754to762,766,768to774,776,777,844to847,849,850,851,853to858,767/1687,770/1251to770/1254,856/1260, corresponding to LR Dag Nos 1554 to1557,1583,1585to1591,1594to1599,1635,1661,1702to1720,1722to1724,1726,1732to1736,1824,1825,24pgs(n) P.S – Khardaha under patulia gram panchayat.

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 office is issuing **Revised Fire Safety Recommendation** in favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

Refuge Floor

Block 4A, 3C & 4C= +24.25 lvl & +39.50 lvl. Area – 15.08 sq mtr

Block 4B & 3B = +25.915 lvl & + 41.165 lvl . Area= 15.08 sqmtr

Block 1 G - +23.395 lvl & +38.645 lvl. Area – 15.18 sqmtr

Block 1E = +25lvl & +40.25 lvl Area – 21.82 sq mtr

Block 1F = +25lvl & +40.25 lvl Area – 20.85 sq mtr

Block 5 = +24.750 lvl , Area – 21.86 sq mtr

Block 6 = +24.75 lvl Area = 20.03 sq mtr

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 Municipality Body (Kolkata Municipal Corporation).
- 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.Arrangement shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate fire resisting capacity.
- 5.The floor area exceeds 750m² shall be suitably compartmented by separations walls upto ceiling level having at least Two hours Fire resisting capacity.

OPEN SPACE AND APPROACH:

- 1.The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.
- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 45M.T.
- 3.The width and height of the access gate into the premises shall not be less than 4.5 mts. and 5.0 mts. respecting the abutting road.

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 operable sashes at each floor level in the external walls of the building.
- 3.The width of the staircase shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant Building Rules with up to date amendment.
- 4.All the staircase shall be extended up to terrace of the building and shall be negotiated to each floor.
- 5.The fire and smoke door at the entrances of all the staircase enclose as marked in the plan at each floor level shall be provided. The F C D shall be at least one hour fire resisting were 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.
- 2.Collapsible gate shall not be permitted.
- 3.One of the lifts shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously written at ground floor.
- 4.Lift and Lift Lobby shall be communicated to the basement and shall have to be pressurized as per guide line of N.B.C. part-IV, Annexure 'C'.

Basement :

1. The Basement

shall be adequately ventilated.

2. Additional staircase from the open air as shown in the drawing shall be constructed beside the ramps conforming relevant specification.

3. the basement shall be protected with auto sprinkler system/hose reel system.

4. Mechanical extractor for smoke venting system from lower/upper basement levels shall also be provided. The system shall be of such design as to operate actuation of heat/smoke sensitive detector on sprinkling. It shall also have an arrangement to start it manually.

5. Mechanical extractors shall have an alternative source of supply.

6. All lifts terminated at basement shall be pressurized and enclosed by F C D by creating a lobby as per NBC Part 4.

FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 2,00,000 ltrs. exclusively for firefighting purpose with replenishing arrangements @ 1000 ltrs/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 reservoir shall be kept full at all time. OHWR: 10000 ltr.capacity shall have to be provided and connected with wet riser.

HYDRANT SYSTEM:

1.The building shall be provided with Wet Riser of 150 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 sqm. 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 2850ltrs /min. at the ground 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 and conforming the relevant I.S. Specifications.

3.Yard Hydrant/Ring Main Hydrant with provision of adequate numbers hydrant with one number of Fire Service Inlet shall be installed surrounding the building in accordance with relevant I.S. specifications.

SPRINKLER INSTALLATION:

The automatic sprinkler installation shall be provided in the all-floor area of each block including basement of the building as per I.S. 9972. Alarm Gong to be incorporated along with the sprinkler system.

FIRE PUMP:

1.Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into to the Water based system, which shall be installed in the building. One such pump shall always be kept on stand-by preferably be of diesel driven type.

2.A Separate Fire Pump shall preferably be made for the total Sprinkler Installation of the building. Provision of the 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.

ELECTRICAL INSTALLATION AND DISTRIBUTION:

- 1.The electrical installation including Transformers, Switch Gear, 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 and horizontal electrical ducts shall be sealed at each floor level by fire resisting materials.
- 3.The electrical installation shall be adequately protected with CO2/D.C.P. Fire Extinguishers conforming I.S. specification.
- 4.Arrangement for alternative power supply shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Deep Tube-Well Pump, Fire Alarm System etc. and also for illuminating the Staircase, Corridors, Lobbies etc. and other places of assembly of the building in case of normal power failure.

Alternative Power Supply:

- 1.Arrangement shall have to be made to supply power with the help of a generator to operate at least the fire pump, fire alarm system and also for illumination in casse of normal power failure.

INTELLIGENCE ANALOGUE SYSTEM:

- 1.Auto Fire Alarm System with Analogue Addressable Smoke /Heat Detectors as per suitability shall be installed in each floor.
- 2.Addressable analogue manual call boxes incorporating with sounders shall be installed in all floors area of the building in such a manner that maximum travel Micro Processor based Fire Alarm Panel shall be installed and all shall also be connected with main panel at the Fire Control Room of the premises having direct dialing facility to the local Fire services unit.
- 3.Both way Public Address Systems shall be made available in all floors of the building. The system shall be connected to the main Control Room.
- 4.All the installations shall also be satisfy the I.S. specifications 2189 (as amended) and the code of practice as laid down in the N.B.C. Part- IV.
5. Micro Processor based fire alarm panel shall be installed and all shall be connected with main panel at the fire control room of premises having direct dialing facility to the local fire service unit.

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 combustibile First Aid Fire Fighting arrangement in the style 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.

FIRST AID FIRE FIGHTING SYSTEM:

- 1.First Aid Fire Fighting arrangement in the style of portable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 15683.with effect from January 2012.

GENERAL RECOMMENDATIONS:

- 1.Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible

articles if applicable.

2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Floor numbers and directional sign of escape route shall be displayed prominently.
4. The employees and security staffs shall be conversant with installed Fire Fighting Equipments of the building and to operate in the event of Fire and Testing.
5. 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.
6. A crew of trained Fireman under the experienced Fire Officer shall be maintained round the clock for safety of the building.
7. Mock Fire practice and Evacuation Drill shall be performed periodically with participation of all occupants of the building.
8. The Fire Safety Recommendation is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements installation of the building.

On compliance of all the above Life and Fire Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approved for necessary inspection and testing of all the installation, Fire Safety Certificate in favor 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