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Government Of West Bengal
Office Of The Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services
Bhangakhuti, Purba Burdwan, P.O.:- Rajbati, Pin :- 713104

Memo no.:FSR/0125186239100298

Date: 13-08-2023

From:
Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services

To: City Park Residency under Edify Infrastructure Projects Private Limited,
Mouza - Shankarpur, Plot no. 388, Kh no. 2267, 2425, JI no. 109, under Gemua G.P, P.s. NTPS Durgapur, Dist.
Paschim Bardhaman, Pin 713206.

Sub: Fire Safety Recommendation for proposed construction of G+6 storied Residential Building in the name and style as City Park Residency under Edify Infrastructure Projects Private Limited at Mouza - Shankarpur, Plot no. 388, Kh no. 2267, 2425, JI no. 109, under Gemua G.P, P.s. NTPS Durgapur, Dist. Paschim Bardhaman, Pin 713206

This is in reference to your application no. 0125186239100298 dated 12-07-2023 regarding the Fire Safety Recommendation for proposed construction of G+6 storied Residential Building in the name and style as City Park Residency under Edify Infrastructure Projects Private Limited at Mouza - Shankarpur, Plot no. 388, Kh no. 2267, 2425, JI no. 109, under Gemua G.P, P.s. NTPS Durgapur, Dist. Paschim Bardhaman, Pin 713206

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 favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

A.CONSTRUCTION:

- 1.Materials for rapid flame, toxic smoke / fumes spread materials / categories including untreated wood fiber board etc. shall not be used.
- 2.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 /Kolkata Municipal Corporation.
- 3.The floor area exceeds 750 Sq. Mts. shall be suitably (not applicable) compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity. (if applicable)
- 4.The interior finish decoration of the building shall be made with low flame spread materials conforming I.S. specifications.
- 5.Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- 6.Arrangements shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate Fire resisting capacity& the doors of service ducts / shafts of 2 hr. fire rating.

B.OPEN SPACE & APPROACH:

- 1.The open space surrounding the building shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and maneuverability of Fire appliances with turning facility.
- 2.The approach roads& internal drive ways 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 Mts. and 5 Mts respecting abutting the road.

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 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 amendment.
- 4.All the staircases shall be extended up to the terrace of the building and shall be negotiable to each other without entering into any room.
- 5.All principal staircases from ground to top floor and all the staircases from lower basement to ground floor and upper basement to ground floor shall be pressurized as marked in the plan. A positive pressure of 50 pa shall be maintained inside the staircases. Pressurization system shall operate automatically / manually on actuation of fire alarm system & sprinkler system.
- 6.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.

D.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 for Fire Lift. The word "FIRE LIFT" shall conspicuously written at ground floor. (if applicable)
- 3.One of the lift car of the building shall be large enough to accommodate standard Ambulance Stretcher and Medical Attendants.
- 4.Arrangement shall be provided for extraction of smoke in all the lift shaft by incorporation smoke venting system designed to permit 30 Air changes per hour in case of Fire shall be of such design as to operate on actuation of Sprinkler or Fire Alarm.
- 5.Exit from the lift body if located in the core of the building, shall be through a self-closing smoke stop door of 1 hour fire resistance.
- 6.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.
- 7.Alternate source of power supply shall be provided for all lifts through manually operated change over switch.
- 8.Lift shall not normally communicate with the basement. If however, lifts are in communication,the lift lobby of the basement shall be pressurized as in(g) &(h) of Annex- C of N.B.C. Part - IV.
- 9.The Speed of the fire lift shall be such that it can reach the top floor from ground level within One minute.

E.FIRE FIGHTING WATER:

- 1.Overhead Reservoir of 25,000 lts. capacity to be kept full at all time.and Under Ground Water Reservoir 25000 Lits for fire fighting to be made at the site
- 2.The Fire water reservoir shall have overflow arrangement with the domestic reservoir to avert stagnancy of water.
- 3.Provision of necessary manhole shall be made on the top of the reservoir as per specification.
- 4.Provision of replenishment at the rate of at least 500 lts./min. from two separate source of water supplies shall be made.
- 5.The deep tube wells for the replenishment of the reservoir shall be incorporated with the auto starting facility with the actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.
- 6.Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

F.WATER LAYOUT SYSTEM :

a.Ring Main Hydrant System :

- 1.100 mm dia Ring Main water layout arrangement along with adequate nos. 3 way Fire Service inlet covering the entire premises of the project with provision of pillar type yard hydrants with door hose boxes, containing 2 lengths of 63mm delivery hose and short branch pipe shall be provided at all the strategic location surrounding the building alongwith adequate nos. Fire Service inlet to be installed conforming I. S. 3844 – 1989 (upto date amendment).
- 2.The system shall be so designed that shall always be kept charged with water under pressure and capable to discharge min. 900 lts. / min. at the pressure 3.5kg / sq.cm. at any point.

b.Down comer & Hose Reels System :

- 1.The building shall be provided with Down Comer and Hose Reel unit provision of outlets in each floor at the staircases landings / half landings as per suitable at the rate of one such Wet Riser and Hose Reel per 1000sq.m. of floor area.
- 2.The Wet Riser installation shall be made in reference to the height of the building in stage wise distributions.
1st Stage lowers Basement to 6th floor 100 mm dia Twin Hydrant outlet.
2nd Stage 6th floor to Top floor 100mm. dia Twin Hydrant opt let.
- 3.Hose Reel Unit: - Provision of hose reel units on swiveling drum in conjunction with wet riser near each landing valves shall be made at each floor level of the building.
- 4.All other requirements of the water base Fire Protection System shall be made as per I. S. Specification 3844 – 1944 (with upto date amendment).

G.FIRE PUMP :

- 1.Provision of the Fire Pump having discharge capacity of 900 LPM 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 roof of the building. One such pump shall always be kept on Stand-by preferably be of diesel driven type.

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 the I.S. specification 1946-1982.
- 2.The vertical ducts shall be supply sealed at alternative floor level.
- 3.The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity Projector System.
- 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 etc. and also for illuminating the Staircase, Corridors etc. and other places of

assembly of the building in case of normal power failure.

I.DETECTION, ALARM AND SUPPRESSION SYSTEM :

1.Manually operated Electrical Fire Alarm System with at least three numbers of break glass type call boxes fitted with Hooters along with public address system, talk back system at each floor connecting with audio-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 the system shall be made conforming I.S. 2189-1988.

2.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.

3.Public Address System :

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

J.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.

K.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.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 staff shall be conversant with installed Fire Fighting equipment 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 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.Close circuit T.V. shall have to be provided for the entire floor area including the basement area 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; Final 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 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, Paschim Bardhaman
West Bengal Fire & Emergency Services