



Government Of West Bengal
Office Of The Divisional Fire Officer, Paschim Medinipur
West Bengal Fire & Emergency Services
Sepoy Bazar, P.O.:- Medinipur, P.S.:- Kotwali, Pin:- 721101

Memo no.:FSR/0125186211500147

Date: 05-10-2021

From:

Divisional Fire Officer, Paschim Medinipur
West Bengal Fire & Emergency Services

To: NIRMAN HEIGHTS of Partners 1) Sri Subrata Patra 2) Sri Goutam Kumar Ghosh
ASHUTOSH NAGAR, KUIKOTA, WARD NO. - 2, MIDNAPUR TOWN, PASCHIM MEDINIPUR, 721101

Sub: Fire Safety Recommendation for Proposed G + 6 storied Residential Apartment Building in the Name & style "NIRMAN HEIGHTS" of Partners 1) Sri Subrata Patra, 2) Sri Goutam Kumar Ghosh, under group of Residential building at Mouza – Kuikota, J.L. No. – 169, in R.S. Plot No. – 203 (Part), L.R. Plot No- 365 (Part), Ward No.- 02, Holding No.- 22, Ashutosh Nagar, P.S. – Midnapore, Dist – Paschim Medinipur, Pin – 721101 under Midnapore Municipality.

This is in reference to your application no. 0125186211500147 dated 20-09-2021 regarding the Fire Safety Recommendation for Proposed G + 6 storied Residential Apartment Building in the Name & style "NIRMAN HEIGHTS" of Partners 1) Sri Subrata Patra, 2) Sri Goutam Kumar Ghosh, under group of Residential building at Mouza – Kuikota, J.L. No. – 169, in R.S. Plot No. – 203 (Part), L.R. Plot No- 365 (Part), Ward No.- 02, Holding No.- 22, Ashutosh Nagar, P.S. – Midnapore, Dist – Paschim Medinipur, Pin – 721101 under Midnapore Municipality.

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.The whole construction of the existing building shall be carried out as per approved plan drawings conforming of the relevant building rules of local Municipal Body.
- 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. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

B.OPEN SPACE & APPROACH:

- 1.The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and manoeuvrability of Fire appliance with turning facility.

- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45M.T.
- 3.The width and height of the access gates into the premises shall not be less than 4.5M and 5M 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 open able sashes at each floor level in the external wall of the building.
- 3.The staircase shall be extended up to terrace of the building.
- 4.Fire and smoke door at the entrance 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 open able in the direction of escape.

D.LIFT (If Any):

- 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 design for Fire Lift, the word FIRE LIFT shall conspicuously write at ground floor.

E. FIRE FIGHTING WATER:

Underground water reservoir having water capacity at 50,000 ltrs. and over head reservoir of 15,000ltrs. Capacity exclusively for Fire fighting purpose with replenishing arrangements @ 1000lts/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.

F.HYDRANT SYSTEM:

- 1.The building 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 mtrs. 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 900lts. /min at the top most outlets in both case the running pressure shall not be less than 3.5kgs./sq cm. All other requirements shall conform I.S 3844-1989.
- 2.Provision for hose reel hose in conjunction with Wet Riser shall be made at each floor level conforming the relevant I.S specification.
- 3.Fire Service inlet shall be installed the building in accordance with relevant I.S. specifications.

G.SPRIKLER INSTALLATION:

The automatic Sprinkler installation shall be provided Parking Area & Staircase of the building as per I.S. 9972. Alarm gang to be incorporated along with the Sprinkler System.

H.FIRE PUMP:

- 1.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 install in the building one such pump shall always be kept on standby preferable be of diesel driven type. A separate Fire Pump shall preferably be made for the total Sprinkler installation of the building.
- 2.Provision of Jockey Pump shall also have to made kept the water based system under pressurized condition at all time. The entire pump 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 over head tank.

I. 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.

J. 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 I.S. specification 1946-1982.
2. The vertical & horizontal electrical ducts shall be scaled at each floor level by fire resisting material.
3. The electrical installation shall be adequately protected with CO2/D.C.P. Fire Extinguisher.
4. Alternative 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 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.

K. DETECTION, ALARM AND SUPPRESSION SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least adequate number of break glass type call boxes fitted with Hooters 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. Auto fire detection system with the help of heat/smoke detector as per suitability shall be installed in all places of below and preferably above false ceiling of the Building. The system shall also be made in places of the room where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S.2189-1988.
3. Hooter will be sounded in such a manner so that an operation of a Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.
4. Public address system & C.C Camera:
Public address system linked between all floors and control room shall have to be established including C.C. Camera to be installed for vigilance of every situation/incident.

L. 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. 15683 with effect from January - 2012.

M. GENERAL RECOMMENDATION:

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 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 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 building.
8. On compliance of all the above Fire and Life safety recommendations, the Divisional Fire Officer, Paschim Medinipur Division, 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 and changes the nature of use of the building in respect of the approved plan drawing without obtaining prior permission from this office, this recommendation will be treated as cancelled.

Signature valid

Signed by: TAPAS KUMAR BANERJEE
Reason: Approved
Location: West Bengal
Date: 05-Oct-2021 09:56:02

Divisional Fire Officer, Paschim Medinipur
West Bengal Fire & Emergency Services