

Government of West Bengal

Office of the Divisional Fire Officer

North 24 Parganas Division

West Bengal Fire & Emergency Services

Ghoshpara Road, Badamtala, Post-Bengal Enamel, North 24 Parganas, Pin-743122

Memorandum No. ES/N/24 PGS DIVN./R/ 141/17/(85/17)

Dated: 11/05/2017.

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

To : The Director,
Annapurna Nirman Pvt. Ltd. Promoter & Developer,
Krishnapur, Ghoshpara, Kolkata-700 102.

Sub : Fire Safety Recommendation for the existing construction of G+V storied building under Group of Occupancy: Residential, in the name & style of 'NIRMAN GREENS' premises at Mouza: Gopalpur, J.L NO: 02, Touzi No: 2998, R.S. No: 140, R.S Dag No: 2829, 2844, 2828, 2840, 2839, 2830, R.S. Khatian No: 232, 2707, 2876, 2877, 2878, 310, C. S. Dag No: 3812, 3823, 3814, C.S. Khatian No: 176, 1290, 1291, 1292, L.R. Khatian No: 11764, 11765, 11743, 12133, 12298, 21183, 12139, 21619, 21501, 21502, 21503, P.S-Airport, Ward No: 5 (old), 4 (new) under Rajarhat Gopalpur Municipality (previously), Bidhannagar Municipal Corporation (presently), North 24 Parganas.

This is in reference to your letter dated 20-03-2017, regarding **Fire Safety Recommendation** for the **existing construction of G+V storied building under Group of Occupancy: Residential, in the name & style of 'NIRMAN GREENS' premises at Mouza: Gopalpur, J.L NO: 02, Touzi No: 2998, R.S. No: 140, R.S Dag No: 2829, 2844, 2828, 2840, 2839, 2830, R.S. Khatian No: 232, 2707, 2876, 2877, 2878, 310, C. S. Dag No: 3812, 3823, 3814, C.S. Khatian No: 176, 1290, 1291, 1292, L.R. Khatian No: 11764, 11765, 11743, 12133, 12298, 21183, 12139, 21619, 21501, 21502, 21503, P.S-Airport, Ward No: 5 (old), 4 (new) under Rajarhat Gopalpur Municipality (previously), Bidhannagar Municipal Corporation (presently), North 24 Parganas.**

The plan drawings 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 **Fire Safety Recommendation** in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Enclo. :

1. Recommendation.
2. One set Plan.



Deputy Director
West Bengal Fire & Emergency Services

RECOMMENDATIONS

A. CONSTRUCTION

- 1) The whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of West Bengal Municipal Building Rules.
- 2) The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification.

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 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 meter and 5 meter 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 corridors and the exit doors shall conforming the relevant building rules as well as rules of the cinematograph Act with upto date amendments.
- 4) All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

D. LIFT :

The lift shall be designed as fire lift, in case of any fire or emergency the lift can be used. The word '**FIRE LIFT**' shall conspicuously written at ground floor.

E. FIRE FIGHTING WATER:

Under ground water reservoir water capacity at 1,00,000 ltrs and Overhead reservoir of 50,000 ltrs exclusively for fire fighting purpose with replenishing arrangements @ 1,000 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.

F. HYDRANT SYSTEM :

- 1) The building shall be provided with Down comer connection to terrace tank through the terrace pump at 2850 L.P.M. capacity providing one 100 mm internal diameter pipe line with provision of landing valves at the at the Stair landing/ half landing level. The system shall be so designed that shall be kept charged with water all the time under pressure and **one stand by pump at same capacity** shall also be installed. In both cases the running pressure shall not be less that 3.5 kgs/sq.cm. All other requirements shall conform I.S.3844-1989.
- 2) Provision for Hose Reel in conjunction with down comer shall be made at each floor level. Conforming the relevant I.S. specification.
- 3) Proper replenishment arrangement shall have to be made to keep the O.H.W.R. full at all time.
- 4) Provision of two way collecting head for uses of Fire services must be provided at the entrance of the building.

G. SPRINKLER INSTALLATION :

The automatic sprinkler installation shall be provided in all the lobby area of all the floors of the buildings (Block: I & II). Alarm gang to be incorporated along with the sprinkler system.

H. ELECTRICAL INSTALLATION & DISTRIBUTION :

- 1) The electrical installation including switch, 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. 1946-1982.
- 2) The vertical ducts shall be sealed at alternative floor level.
- 3) The electrical installation shall be adequately protected with CO₂/ D.C.P. extinguishers.
- 4) **Alternative power supply** – arrangements shall have to made to supply with the help of a generator to operate at least the Terrace Pump, Pump for deep tube well, Fire Alarm System etc. and also for illuminating the ground floor etc. and other places of assembly of the building incase of normal power failure.

I. DETECTION, ALARM AND SUPPRESSION SYSTEM :

- 1) Manually operated electrical fire alarm system with adequate numbers of break glass type call boxes fitted with hooters, talk back system at ground 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 smoke detector shall be installed in all required places. 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 Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.

J. FIRST AID FIRE FIGHTING SYSTEM :

One (1) 9 liter water expelling extinguisher or ABC 5kg/6 kg fire extinguisher, for every 200 m² of floor area or part thereof with minimum of Two (2) extinguishers per compartment or floor of the building. The extinguishers should be so located as to be available within 15 m radius.

K. GENERAL RECOMMENDATIONS :

- 1) Fire License shall have to be obtained from the License section of the Department for proposed storing of highly combustible articles and processing with L.P.G, which come under the perview of License Section.
- 2)
- 3) Fire Notice for firefighting and evacuation from the building shall be prepared and be displayed at a vulnerable places of the building.
- 4) Directional sign of escape routs shall be displayed prominently.
- 5) The employees and security staff shall be conversant with installed fire fighting equipments of the building and to operate in the event of Fire & Testing.
- 6) Arrangement shall be made 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.
- 7) A crew of trained fireman under the experienced officer shall be maintained round the clock for safety of the building.
- 8) Mock fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
- 9) Each year a certificate is to be obtained from the **Divisional Fire Officer, North 24 Parganas Division, West Bengal Fire & Emergency Services** certifying about the satisfactory services, performance of all the life & fire safety arrangements and installation of the building.

This shall be treated as **Fire Safety Recommendation** on compliance of all the above fire and life safety recommendations, the **Divisional Fire Officer, North 24 Parganas 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 fire safety recommendation will be treated as cancelled.



**Deputy Director
West Bengal Fire & Emergency Services**