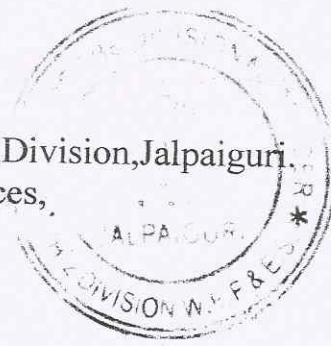


Govt. of West Bengal,
Office of the Divisional Officer, H-2, Division, Jalpaiguri.
W.B. Fire & Emergency Services,



Memo No.: - WBFES/H-2/P/ 12 /12

Date.: - 28.12.201

From: - The Divisional Officer
H-2, Division, Jalpaiguri.

To: - M/S Sanket Vyapaar Pvt. Ltd.
748, Marshal House, Kol-1
For existing G+3 types Commercial building,
At Mauza-Kharia, Plot-86, 105, khatian, part of 4820, JL.7,
PS-Kotwali, Holding-98/160, Jal- municipality w.no-5
PO+Dist:- Jalpaiguri.

Sub: - Fire Safety Recommendations for the existing G+3 types Commercial Building.
Ref:- Your letter No- Nil, Dt-

Sir,

With ref. to your letter noted above regarding the Fire Safety recommendations for the existing building you have submitted different documents inter alia the Plan of your building and after scrutinized the same from our fire & life safety point of view, the Fire Safety recommendations are hereby issued subject to the compliance of the same from your part **within three month from the date of issue of this recommendation.**

Recommendations: -

1) Construction:-

- i) No addition and alteration of your existing building will be allowed without the concurrence of this department except the construction works of means of escape.
- ii) **There should be two staircases from the terrace of the building to the ground floor level.**
- iii) **Escape routes should be free from any obstruction.**

2) Fire Fighting Water: -

- i) The building should be provided with 100000 liters capacity of underground stored water with replenishing arrangement @ 1000 liters of water per minutes preferably from two different sources. The height of the reservoir should not be exceeding 30 cm from the ground level. Fire water reservoir shall have overflow and connected with the domestic water reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all times.
- ii) The location of the underground reservoir should be such so that Fire Service vehicles may get access to the site of the reservoir with a view to draw the water from the said reservoir.

3) Internal Hydrant System: - IS-3844:1989.

- i) Pressurized wet risers of 100 mm dia each should be provided at each staircase with provision of landing valve at each landing and half landing @ one such riser for each 1000 sq. meters of floor area of the building. This system shall be designed in such a manner that it should be kept charged with water at all time and capable of discharge 2850 liters of water per minutes at the ground level & minimum 900 liters per minutes at the top most outlets.
- ii) In both the cases, the running pressure at ground level shall be 3.5 kg/sq cm & 2.5 kg per sq.cm at the top most landing valves should be ensured.

Cont.p/2

4) External Yard hydrant System:- IS: 13039:1991:-The pillar type hydrant should be installed surrounding the building as per the said code of practice i.e. @ one pillar hydrant per 1000 sq. meters of floor area or as per the vulnerability of the area.

5) Hose Reel Hose. I.S: 884:1985:- This system should be provided at each floor of the building as per code of practice. The internal dia of the said hose reel shall be 19 mm to 32 mm and the discharge capacity not less than 22.5 liters. While the length of the hose reel not more than 36.50 meters. The distance of such installations should be in such a way that no part of the floor is more than 6 meters distance from a hose nozzle when fully extended.

6) Terrace Tank:-One such tank of minimum capacity 10000 liters should be installed in the terrace of the building along with suitable terrace pump & wet riser cum down comer system.

7) Pumps for fire fighting Installation. IS-12469-1988.

i) The pump should be installed and arranged in such a manner so that it will start automatically due to fall in pressure as prefixed in the installation and a **jockey pump** should also be installed.

ii) All the pump shall be designed as to supply water at the designed pressure and discharge into the water based system which shall be installed in the building.

iii) One such pump shall always be kept on stand-by preferably be of diesel driven type.

iv) An independent identical pump for the purpose of sprinkler installation shall be made available and all such arrangement shall be done as per the code of practice.

v) All the pumps shall be incorporated with both normal and auto starting facilities, the suction of the 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 fitted with overhead tank.

8) Small gears:- I:S 903-1993.

i) The hose box, 15 meters length permoline delivery hose & gun metal short branch of half inch dia @ one set each at or near the pillar hydrant, landing valves on all floors of the building should be installed.

9) Detection & Alarm System, Suppression system & public address system:- IS 2189-1988.

i) Sufficient Nos. of manually operated electrical fire alarm system of break glass type call boxes and fitted with alarm like hooters with public address system, talk back system at each floor of the building should be installed. The Control room shall be located at the entrance of the ground floor of the building where a panel board, resistor etc. shall be available for recording different occurrence. ii) Automatic fire detection system, with the help of smoke and heat detectors shall be installed at all places of below and preferably above false ceiling of the building. This system shall also be made available in places of rooms where valuables have been kept. Other requirements shall be made in accordance with the IS code of practice.

10) Automatic Sprinkler System: I:S-9972:2002:- The automatic sprinkler system should be provided at corridors/escape routes & at all the vulnerable places of the building as per the IS code of practice.

11) First aid fire fighting system:- IS 2190-1992. Sufficient Nos. of Portable fire extinguishers of DCP type, Water type and Sand and water bucket should be provided at different places of the building and it should be within the reach of all persons as per the Code of practice.

12) Alternate Power Supply:- Arrangement 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, and also for illuminating staircase, corridors, etc.

13) Gas Bank:- IS-6044-2000:- In case of any cooking gas bank the same should be installed conforming the S/L 4.1.5 & 4.1.6 of the aforesaid I.S code & after obtaining Fire Service License u/s 12 of W.B.F.E./s Act. & W.B.F.E.S (License) rules-2004

14) In case of Air Condition: IS-659-1991- It shall conform the following:-

- i) Escape routes like corridors, lift lobbies etc. shall not be used as return air passages.
- ii) A.H.U. room shall not be used for storage of any combustible articles.
- iii) Regular check up of all split type window A /C Machine are required to prevent the dust, foreign articles etc. in the air inlets to avoid spontaneous combustion.
- iv) In case of central A.C system, the same shall be incorporated with automatic damper with fusible link with a view to shut down the system automatically.
- v) Regular checking, testing, cleaning etc. of air inlet is must.

15) Electrical Installation: IS 1644-1982 & NBC part -IV:-

- i) All electrical installation should be done in accordance with National Electrical code & Part -VIII "Building Services" section -2 "Electrical Installation" good practice [4(10)]
- ii) All cable should be of FRLS type & all wiring should be done by the copper wire along with appropriate gauge such as 1.2 sq.mm for light, fan, bulb etc. 2.5 sq.mm for freeze, TV, & 4 sq.mm for geyser, washing machine etc.
- iii) Electrical installation shall be tested periodically by the licensed electricians.

16) General recommendations: -

- i) Fire notice should be provided and shall be displayed at all places of the building as per clause 5.5 of N.B Code.
- ii) Floor No. and Directional Sign of escape route should be displayed prominently as per clause 5.5 of the N.B Code. (Auto glow type).
- iii) The employees and other peoples shall be conversant with the installed fire fighting equipments of the building so that they can operate the same in case of exigency.
- iv) Arrangement shall be made for regular checking, testing and proper maintenance of all fire fighting equipments and keep them in good working condition at all time.
- v) Mock fire drill and evacuation drill should be done periodically with participation of all the employees and others and in this regard in each year a Certificate is to be obtained from our end as laid down in the norms.
- vi) A register for recording of mock fire drill, evacuation drill, testing, maintenance of whole fire fighting equipments, electrical installations etc. should be maintained & shall be liable to produce the same to the authorized officer of this department on demand.
- vii) Good house keeping should be maintained,

Note: - 1) This fire service recommendations are issued subject to the free from any Court case or legal re-encumbrance.

2) After issuing the work orders of the said Fire Service recommendations to any authorized agency for the installation of the same, a primary clearance in the style of provisional NOC for such installations shall be issued from this end.

3) On compliance of the aforesaid recommendations up to the satisfaction of this department & as per the scale as advised from this end, Final Fire Safety certificate (NOC) shall be issued.

Atan
25/12/12
The Divisional Officer
H-2 Division, Jaipuri.

H2 Division
West Bengal Fire & Emergency Services
Jaipuri