



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

Memo no.: FSR/0125186210300165

Date: 17-09-2021

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

**To:** Proposed G IV storied Residential cum Commercial Building in favour of sajjan Agarwal and Asha Banka. Mouza. Galsi, JI no. 99, st no.2, R.s. Plot no. 595, R.s. plot no.595, R.S. Kh no..401, L.R. kh no. 1268, P.S. Galsi, under Burdwan zilla Parishad, Dist. Purba Burdwan. 713406

**Sub:** Sub: Fire Safety recommendation for the Proposed G IV storied Residential cum Commercial Building in favour of sajjan Agarwal and Asha Banka. Mouza. Galsi, JI no. 99, st no.2, R.s. Plot no. 595, R.s. plot no.595, R.S. Kh no..401, L.R. kh no. 1268, P.S. Galsi, under Burdwan zilla Parishad, Dist. Purba Burdwan. 713406

This is in reference to your application no. 0125186210300165 dated 16-09-2021 regarding the Sub: Fire Safety recommendation for the Proposed G IV storied Residential cum Commercial Building in favour of sajjan Agarwal and Asha Banka. Mouza. Galsi, JI no. 99, st no.2, R.s. Plot no. 595, R.s. plot no.595, R.S. Kh no..401, L.R. kh no. 1268, P.S. Galsi, under Burdwan zilla Parishad, Dist. Purba Burdwan. 713406

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:**

Recommendation:

**A. CONSTRUCTION :**

1. Construction and lay out of existing factory building/shed shall remain same as per approved plan and shall never be altered without prior approval of this Department and strictly follow local Panchayet/Municipal Rules.
2. Adequate ventilation shall be provided.
3. The interior finish decoration of the building shall be made of low flame spread materials conforming I.S Specification.

**B. OPEN SPACE AND APPROACH :**

1. The open spaces surrounding the building shall confirm the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
2. The approach road 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 4.5m and 5m respecting the abutting road.

**C. STAIRCASE :**

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The staircase, landing and half-landing should always be kept clear while the roof door always be kept open.

#### D. 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 electrical installation shall be adequately protected with CO<sub>2</sub> / D.C.P. extinguishers.
3. Electrical distribution system of all the plant, building and other's structure shall be made in the form of concealed wiring or in heavy gauge M.S. conduit continuously bonded to the earth. Cables shall be I.S. marked and preferably be of F.R.L.S. categories.
4. All electrical installation viz. transformer, Switch Gear L.T, H.T rooms shall be protected with appropriate suppression system as per suitability.

#### 5. ALTERNATIVE 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 etc. and also illuminating the staircase, corridors etc. and other places assembly of the building in case of normal power failure.

#### E. FIRE PREVENTION :

1. House-keeping of high order to prevent accumulation of combustible dust shall be established and maintained.
2. The surfaces which are covered by dust to be removed by periodical intervals.
3. Eliminate rough surfaces, ledges to minimize surfaces upon which the dust might accumulate.
4. Arrangement shall be made to remove dust accumulation by installing vacuum cleaning system and soft push brooms to remove light accumulation and conveniently placed pneumatic collector opening near floor level and exhausting refuse dust collectors.
5. Where large quantity of dust are likely to be liberated such as grinding, buffing, dumping bags, transfer point in conveyer system continuous suction process shall be maintained.
6. Open flame, smoking, cutting or welding inside the plants shall be prohibited.
7. Magnetic separators to prevent foreign objects from entering grinders, pulverizes, crushers or other Milling equipments shall be provided.
8. Accumulation of static electricity in the equipments shall be prevented by grounding and bonding of all equipments.
9. Suitable Blowers and exhaust shall be installed.
10. Proper explosion venting system and approved explosion protection system shall be installed in the exterior wall of the plants.

#### F. FIRE FIGHTING WATER :

1. Underground water reservoir having water capacity at 50,000 lts. exclusively for firefighting purpose with replenishing arrangements @ 1000 Lts./min. Preferably from two different sources of water supply shall be provided.
2. 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 times.
3. Provision of necessary manhole shall be made on the top of the reservoir as per specification.
4. Provision to be made for placing Fire Appliances on the underground water reservoir to be draw water in case of Emergency.

#### G. FIRE PUMP :

1. Discharge should not be less than 1850 Lts/min and pressure at the furthest most hydrants not less than 3.5 Kgs/Sq.cm.
2. A standby pump of equal capacity shall be provided on alternative source of supply.
3. All the pumps shall be incorporated with both manual and auto starting facility.

#### H. HYDRANT SYSTEM :

1. All Plants, Building and Structure should be protected by Yard Hydrant in conjunction with Hose Reel equipments.
2. Yard hydrant layout arrangement of 100mm internal diameter pipe line with the provision of Pillar type Hydrant



surrounding the factory premises shall be provided.

3. Hose boxes containing 2 lengths of delivery hose and a short branch pipe at each hydrant point shall be provided conforming I.S. specification 3844-1989.

**I. FIRST AID FIRE FIGHTING SYSTEM :**

First Aid Fire fighting equipments in the form of Hose Reel, suitable type and capacity of portable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable locations of the Mill shall be made in accordance with I.S. 2190-1992.

**J. ALARM SYATEM :**

Manually Operated Electrical Fire Alarm system with break glass type call boxes fitted with hooters at entire factory premises to be provided.

**K. GENERAL RECOMMENDATIONS :**

1. Fire Notice for Fire Fighting and evacuation from the Mills shall be prepared and be displayed at all vulnerable places of the Mills area. Directional sign of escape route shall display prominently.
2. All staff and official should have adequate knowledge of handling firefighting equipments, evacuation process in time of emergency and prevention measures.
3. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the Mill to keep them in perfectly good working conditions at all times.
4. Storing of raw materials and finished products shall never be made altogether, haphazard and external storing shall always be avoided.
5. Storing of materials shall be made in such a fashion that internal and external spreading of fire can be minimized.
6. Height of each stack shall have sufficient gap from the ceiling.
7. Fire safety certificate should have to be obtained after compliances of all fire safety recommendations.
8. Fire License also to be obtained for licensable articles and licensing areas of the plant.
9. Any violation of the above recommendations, the Fire Safety Recommendations issued by this Department will be treated as cancel

Signature valid

Digitally signed by PULACK  
SHARMA  
Date: 2021.05.17 15:31:39 IST

Divisional Fire Officer, Purba Bardhaman  
West Bengal Fire & Emergency Services