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GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER, BURDWAN DIVISION,  
WEST BENGAL FIRE & EMERGENCY SERVICES  
BURDWAN FIRE STN. BLDG. BURDWAN.

Memo No. FES/Bdn/ 643 /2017

Dated: 31/3 /2017

From: The Divisional Fire Officer  
Burdwan Division  
West Bengal Fire & Emergency Services

To : 1) Sri Amarnath Gorai,  
2) Smt. Manjula Gorai  
3) Smt. Debjani Dutta,  
4) Smt. Indrani Sen,  
Sudha Enclave, S.B.Gorai Road, Asansol,  
Dist. Burdwan.

**Sub :** Fire Safety recommendations for the proposed G+IV storied residential building (Block A & Block B), in favour of (1) Sri Amarnath Gorai, (2) Smt. Manjula Gorai, (3) Smt. Debjani Dutta, (4) Smt. Indrani Sen, over R.S.Plot No. 5846,5847,5849, R.S.Kh.No. 640,642,11731 and 11732, Mouza: Asansol Municipality, J.L.No.20, Ward No. 51, Dist. Burdwan.

**Ref:** Your application Dated 28/03/2017.

This is to reference to your letter dated 28/3/2017 regarding Fire Safety recommendations for the proposed G+IV storied residential building (Block A & Block B), in favour of (1) Sri Amarnath Gorai, (2) Smt. Manjula Gorai, (3) Smt. Debjani Dutta, (4) Smt. Indrani Sen, over R.S.Plot No. 5846,5847,5849, R.S.Kh.No. 640,642,11731 and 11732, Mouza: Asansol Municipality, J.L.No.20, Ward No. 51, Dist. Burdwan.

The plan drawing submitted by you was scrutinized and marked as found necessary from Fire Safety point of view i.e Fire prevention and Fire safety Rules 1996 with upto date amendment and the relevant portions of Part IV of the N.B.C., I.S. Specification and relevant building Rules of Local Bodies subject to inspection report of the Inspecting Authority of this department. In returning one set of Plan with recommendation, this office is issuing Fire Safety recommendation in favor of the aforesaid concern subject to the compliance of the following Fire Safety Measure. After complying of Fire safety recommendation (Enclosed herewith) N.O.C./Fire safety certificate will be issued in due course.

Enclosed: Recommendation

*[Handwritten signature and date 31/3/17]*

DIVISIONAL FIRE OFFICER  
BURDWAN DIVISION  
WEST BENGAL FIRE & EMG. SERVICES

## RECOMMENDATIONS

- A. CONSTRUCTION :
1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant rules of local Municipal Corporation, as well as N.B.C. of India 2005.
  2. The Floor area exceeds 750 m<sup>2</sup> shall be suitably compartmented by wall separation upto Ceiling level having at least two hrs. Fire Resisting capacity.
  3. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
  4. Provision of ventilation at the Central core-duct of the building shall be provided.
  5. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire Resisting capacity.
- B. OPEN SPACE & APPROACH ROAD :-
1. The open space of the surrounding building shall conform the relevant buildings rules so as to permit the easy accessibility and maneuverability of Fire Appliances with turning facility.
  2. The approach road shall be sufficiently strong to with stand the load of Fire Engine weighting upto 20 M.T.
  3. The width and height of the access gates into the premises shall not be less than 4.5 M and 5 M respectively abutting the road.
- C. STAIR CASES :-
1. One another stair case shall be provided in case of any emergency.
  2. The stair cases of the building shall be enclosed /R/C/C/ type made of bricks having Fire Resisting capacity not less than 4 hrs.
  3. The stair cases 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.
  4. The width, Tread, Rise & flight of the stair cases and corridors/Exit/Lobby etc. shall conform the relevant building rules.
  5. All the stair cases shall be extended upto to terrace of the building and shall be negotiable to each other without entering into any room.
  6. Fire and smoke check doors at the entrances of all stair case enclosures at each floor shall be provided. The F.C.D. shall be at least one hour Fire Resistance wire glass window fitted with Self-closing type openable in the direction of escape.
- D. FIRE FIGHTING WATER :-
- Underground W/R having capacity 20000 lts. Capacity and overhead Reservoir 10,000 exclusively for Fire Fighting purpose with replenishing arrangements @ 1000 lts/min.preferably from two different sources of water supply shall be provided.
- E. HYDRAANT SYSTEM :
1. Provision of hose reel in conjunction with Wet riser cum down comer of 100 mm dia having landing valve at each floor connected to overhead reservoir through Booster pump of 1200 LPM shall be made conforming the relevant I.S. specification.



2. Yard Hydrant /Ring main Hydrant with provision of two numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specification.
3. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

F. 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 ducts shall be supplied sealed at alternative floor level.
3. The electrical installation shall be adequately protected with CO2 /D.C.P. or Medium Velocity water projector system.
4. Alternative power supply :- Arrangements shall be made to supply with the help of generator to operate at least the Fire pump, pump for deep tube well . Fire Alarm system, and also illuminating the stair case, corridors, exit etc. of the building in case of normal power failure.

G. DETECTION, ALARM AND SUPPRESSILON SYSTEM :-

1. Manually operated Fire Alarm system shall be provided.
2. The other requirements of the system shall be made in accordance I.S. 2189 -1988

H. 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.

GENERAL RECOMMENDATIONS :-

- 1) Maximum nos of filled and empty cylinders shall be stored as per recommendations of OISD & TAC as well as F.S.Act & Rules 1950(Amended upto date).
- 2) LPG distribution pipes shall always be below the false ceiling and external wall the length of these pipes will be short size.
- 3) Stationary installation between 40 kg to 200 kg. floor area shall be provided 5m2 to 12m2 at lease.
- 4) Intermediate shut off valve /isolation valve and pressure regulators, safety relief valve etc. shall be provided as laid down in the N.B.C. of India 2005 (Paret-9 section-2).
- 5) Hydrant point shall be provided nearest to the gas bank of the building wall sprinklers and drenches system may be provided into the gas bank.
- 6) Fire Notice for Fire fighting and evacuation from the building shall be prepare and be displayed at all vulnerable places of the building.
3. Floor nos. and directional sign of escape route shall be displayed prominently.
4. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installations and equipments installed in the building to keep them in perfectly good working condition at all times.
5. Every year a certificate is to be obtained from this Deptt. certifying about the satisfactory services, performance of all the lives and Fire safety arrangement and installation of the building.
6. Violation any of the above recommendations the Fire Safety certificate shall be treated as cancelled as legal action may be taken as per existing F.S. Act & Rules 1950 (Amended up to date).
7. Violation any of the above recommendations shall be treated as cancelled legal action may be taken as per existing F.S. Act & Rules 1950(Amended up to date).

N.B. : Any Deviation and changes the nature of use of the building In respect of the approved plan drawing without obtained prior permission from this office, this Fire safety recommendation will be treated as cancelled.

