



सत्यमेव जयते

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/ 1058 /2016

Dated: 12/7 /2016

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

To : Arun Kumar Sannigrahi,
RA/91, Appallo Avenue, Bidhan Nagar,
Durgapur-12, Dist. Burdwan.

Sub : Issue of Fire Safety recommendations for the proposed G+4 storied residential apartments building in favour of Arun Kumar Sannigrahi, over R.S.Plot No. 513(P), Mouza: Fuljhore, J.L.No.82, P.S.Durgapur, Dist. Burdwan.

Ref: Your application Dated 10/6/2016

This is to reference to your letter dated 10/6/2016 regarding Issue of Fire Safety recommendations for the proposed G+4 storied residential apartments building in favour of Arun Kumar Sannigrahi, over R.S.Plot No. 513(P), Mouza: Fuljhore, J.L.No.82, P.S.Durgapur, 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

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 m² 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. 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.
2. 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.
3. The width, Tread, Rise & flight of the stair cases and corridors/Exit/Lobby etc. shall conform the relevant building rules.
4. 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.
5. 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.
6. One extra stair constructed at opposite site of another stair cases upto roof level connected with all floor.



: 2:

D. FIRE FIGHTING WATER :-

1. Underground W/R having capacity 20000 lts. Capacity and overhead Reservoir 5,000 exclusively for Fire Fighting purpose with replenishing arrangements @ 1000 lts/min. preferably from two different sources of water supply shall be provided.

The Fire water Reservoir shall have over flow arrangements with the domestic water reservoir as well as to avoid stagnancy of water. The water Reservoir shall be kept full at all time.

E. SPRINKLER INSTALLATION :

The automatic sprinkler installation shall be provided Basement in all floor areas of the building as per I.S. 1972 Alarm gang to be incorporated along with the sprinkler system.

- F. Provision of 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 installed in the building. One such pump shall always be kept on stand-by preferably be of diesel driven type.

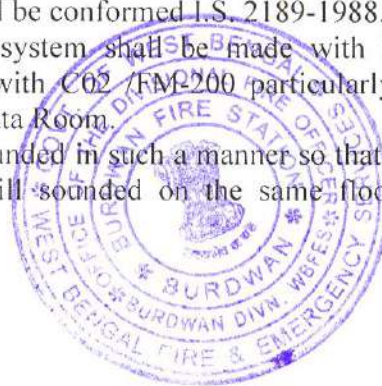
A separate Fire Pump shall preferably be made for the total Sprinkler installation or the building, Provision of Jockey Pump shall also have to be made to keep the Water based system under pressurized conditions at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. 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 fitted with overhead tank.

G. 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, Fire lift etc. and also illuminating the stair case, corridors, exit etc. of the building in case of normal power failure.

H. DETECTION, ALARM AND SUPPRESSION SYSTEM :-

1. Manually operated Electrical Fire Alarm system with at least three nos. of break glass type call boxes fitted with hooters along with P.A. system, tack back facilities at each floor shall be made in the control room. The control room shall be located at the ground floor of the building. Other requirements of the system shall be conformed I.S. 2189-1988.
2. The suppression system shall be made with Fire Extinguishers and total flooding system with CO₂ /FM-200 particularly in computer and Electrical processing and Data Room.
3. Hooter will be sounded in such a manner so that an operation of a Detector or M.C.P. Hooters will be sounded on the same floor and immediate alternative floor.



: 3:

4. P.A. system shall be linked with all floors and control room to be established.
 5. Auto Fire Alarm system with an along addressable, smoke heat detector as per suitability shall be installed at each floor.
 - I. A.C.SYSTEM :- (If any) :-
 1. The A.H.U. shall be separated for each floor with the system of Air Ducts for individual floors.
 2. Arrangement shall be made for isolation at the strategic Locations by incorporating Auto Dampers in the A.C.System.
 3. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.
 4. The air handling unit's room shall not be used for storage of any combustible materials.
 - J. 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.
 - K. GENERAL RECOMMENDATIONS :-
 - 1) 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. The employees and security staff shall be conversant with installed the 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 installations and equipments installed in the building to keep them in perfectly good working condition at all times.
 6. A crew of trained Fireman under experienced officer shall be engaged round the clock for safety of the building and occupants.
 7. Mock Fire Drill and Evacuation drill shall be performed periodically with participation of all occupants of the building.
 8. In case of any land dispute /building dispute /Litigation between landlord and tenants /court case etc if arises any time this department has no liabilities and responsibilities in this matter.
 9. 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.
 10. After completion of entire construction of the proposed/ existing building and Fire safety installations, a letter of information must be communicated to the office for further inspection to issue the Fire safety certificate/ N.O. C.
 11. 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).
 12. Fire license shall be taken from this Deptt. in case of storing and handling any hazardous chemical, liquid articles and gases etc.
 13. This Fire safety Recommendations valid for one year from the date of issue and prior information is required for further extension the period.
- N.B. : Any violation of the above safety recommendations, if found, the certificate will be treated as cancelled.

