GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
(24-Mirza Galib Street,Kolkata-700 016

Memo No. WBFS/ 6 2 39 /A /Ass/B-1331/14(1331/14) Date 16/3/16

From: The Director(Fire prevention),
West Bengal Fire & Emergency Services.

To : Mr. Prabir Ghosh & Bapi Das,
412, N.S.C. Bose Road
Ward No-100, P.S.- Jadavpur,
Kolkata-700 047.

Sub: Fire & Life safety Recommendation for a existing construction of B+G+V storied under group Residential Building at the premises no-412,N.S.C.Bose Road, Ward no-100,P.S.-Jadavpur,Kolkata-700 047.

This is in reference to your letter No.- Nil dated- 31/10/2014 regarding Fire & Life safety measure for Proposed construction of B+ G+V storied under group Residential Building at the premises no-412,N.S.C.Bose Road, Ward no-100,P.S.-Jadavpur,Kolkata-700 047.

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.

Encl:-
1. One set of plan.
2. Recommendation placed in this file

DIRECTOR
FIRE PREVENTION
WEST BENGAL FIRE & EMERGENCY SERVICES

RECOMMENDATION

A. GENERAL NOTE:
1. Materials for major items toward emergency including unwanted wood fibre board etc. shall not be used. The doors and wall are specifically shall be made of metal.
2. The floor area exceeds 750m² shall be suitably compartmentated having five hours Fire resisting capacity.
3. The interior finish decoration of the building shall be made with the materials with low flame spread and low smoke and toxic gas generating categories conforming I.S. Specification.
4. All principal stairs shall not be permitted from the Basements
5. Arrangement shall be made for sealing of the vertical service ducts by the materials of adequate Fire resisting capacity.
6. Fire rating test certificate of all interior finish decoration should be submitted to this office before taking occupancy.
7. Service Ducts and etc.shall be maintained by a wall of 2 hours and doors of one hour fire rating. All such ducts shall be properly sealed and Fire stopped at all floor levels.
8. Intermediate area should be mechanically exhausted of smoke in such a manner so that the exhaust system should be auto linked with the actuation of Detector and also to be auto shut off with the actuation of sprinkle system.

B. DOOR SHAPE & ARRANGEMENT:
1. The open space surrounding the building shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and maneuverability of the Fire appliances with turning facility.
2. The approach road and roads surrounding the building shall be sufficiently strong to withstand the load of Fire Engine weighing up to 45 M.T.
3. The width and height of the entry gate in the premises shall not be less than 3m and 6m respectively
4. Drive way should be free of any type obstruction. No parking will be allowed on the Drive Way.

C. STAIRCASE:
1. Both the staircases from ground to top floor shall be pressurized as marked in the plan. A positive pressure of 25-30 m. shall be maintained inside the staircases. Pressurization shall be maintained round the clock.
2. Both the staircases of the office building shall be enclosed type, entire construction shall be made of brick /RCC type having Fire resisting capacity not less than 4 hours respectively marked in the plan.
3. The staircases shall have a cumulative vents at the top equal to 5% of the cross sectional area of the staircase enclosure, and open also earlier at each floor level equal to 15% of the said cross section area shall have to be provided in the external wall of the building.
4. All the staircases of the building shall be negotiable to each other in each floor without entering into any room and shall be extended up to respective landing level of the stair well shall be 1M above the surrounding roof area.
5. The width of the staircases and corridors at the level distance of various categories of occupancies shall have to conform the relevant building rules.

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Fire and smoke check door of the staircase of all the basement compartments at each floor level shall be provided with a door of 2 hours Fire resisting with gasket, smoke door, self closing type door with a door closer of rating.
Considering the staircases are only means of emergency, emergency lighting arrangement, directional, exit signs etc. shall be made conforming the relevant I.S. Code in this regards.

D. LIFT:
1. The width of the lift enclosure of the building shall be at least two lifts 2.10 meeting type respectively marked in the plan with the stand alone of area not less than 6.2m²
2. The lift of the building shall be designed in high speed "Fire Lift" and conspicuously indicated marked in the plan.
3. One of the lift cars of the building shall be large enough to accommodate standard Ambulance Stretcher and blocks of Attendants.
4. The Electric power shall be from separate supply mains in the building and cables run side in the lift shafts, light and fans in the lift cars shall be operated from 24 volts, supply on emergency in case of failure of normal power supply (lift shall automatically cut off normal power supply).
5. Arrangement shall be provided for extraction of smoke in all the lift shaft by incorporation smoke venting system designed to prevent the Air ingress in case of Fire and shall be of such design as to operate on actuation of Sprinkler or Fire Alarm. In case of failure of normal electric supply, it shall automatically be switched on to alternate supply.
6. Exit door of the lift lobby shall be through a self closing smoke stop door of 1hour Fire resistance
7. The speed of the fire lifts in the building shall be such that it can reach the top from the ground floor within 1 minute in usual indications of floor numbers shall incorporated in the lift cars.
8. All other requirements shall conform the I.S. specification regarding the communication facility in the lift cars connecting to the Fire Control Room of the building.
9. All Lifts must have, in less-meet shall be pressurized a positive pressure of 25 to 30 Pa. shall be maintained inside the lift well and lobby. The pressurization shall be maintained round the clock.

E. REFUGE AREA:
1. The Refuge area on calculating the area in the area of 0.3 m/2 person on the basis of floors area shall be provided on the external wall as mentioned proportion or any other suitable means. at 24.25m, 35.75m, 44.75m floors of the building.
2. The refuge area shall be [illegible] a existing construction and protected with self closing P.C.D. in the entrance door to corridor or the staircase lobbies.
3. The position of refuge Areas shall be such that they are negotiable by the Fire service Ladder from the ground floor.

F. BASEMENT:
1. The Basement shall be adequately ventilated with aggregate cross sectional area of not less than 2.5% of the area spread round around the perimeter of the basement shall be provided in the form of grills.
2. Mechanical smoke venting arrangements shall be provided in the basements conforming the I.S. Specifications.
3. In each floor area of basement shall be divided into the travel distance shall not exceed 18.5m from any point.

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Office of the
Executive Engineer, Br.-X
The Kolkata Municipal Corpn.
Building Department, Br.-X
Dated 22/3/2018

2nd Stage 6" Floor to Top Floor 150mm. Dia. Twin Hydrant outlet.

iii Hose Reel Units: Provision of hose reel units on swivelling drum in conjunction with wet riser near each landing valve shall be made at each floor level of the office building.

iv All other requirements of the water base Fire Protection System shall be made as per I. S. Specification 3844-1989 (with upto date amendment).

4. Automatic Sprinkler Installation:
i All floors and dissects of the building including Basement shall be suitable protected by automatic Sprinkler Installation conforming the grade as per I.S. Specification.
ii The Sprinkler arrangement shall be divided in Zonewise
Zone 1:Basement, 1st Floor.
Zone2: 2nd Floor to 4th Floor.
Zone3: 5th Floor to top Floor.

d. Water Projector Protection.
The Electrical installations viz. transformer, HT,LT switch gear etc. shall be protected by high or medium velocity Water Projector System as per suitability.

1. FIRE PUMP :
1. 2850 Ltr. per min. giving a pressure not less than 0.3N/m². The pump provided will be of multi stage type with suction and delivery size not less than 150m. dia with lower level cross opts are marked and high level time delivery for upper floors. A set ball valves to supply the tank with at least 2850 ltr. Per min. from the fire pump. Alternatively a multistage, multiunit pump may be installed.
2. A standby Pump of equal-capacity shall be provided on alternative source of supply. Provision of Jockey pump have to be made to keep up the water based system under pressurized condition at all the time.

2. ELECTRICAL DISTRIBUTION SYSTEM:
1. Electrical distribution system of all the building shall be made in the form of concealed wiring or in heavy gauge M.S. conductors continuously bonded to earth cables shall be I.S. marked and preferably be of F.R.L.S. categories.
2. Electrical distribution System shall conform all the requirements laid down in I.S. 1646-1982.
3. For every 230V wiring above false ceiling 660 grade insulated cable shall be used Transformer Switch Gear H.T.,L.T. and other electrical rooms shall be at the ground floor level the other electric rooms shall be at least 4ft. fire resisting capacity adequate ventilation arrangement shall have to be made in all the rooms, Dry and explosion proof type transformer shall be installed.
4. All electrical installations viz. Transformer, Switch Gears, L.T., HT rooms shall be protected with both auto detection and manual alarm systems as per suitability.

3. AUTO DETECTION AND ALARM SYSTEM:
1. Auto Fire Alarm System which analyses addressable smoke heat detectors as per suitability shall be installed in all floor area of the building except the Basement.
2. Addressable analogue manual call boxes incorporated with sounders shall be installed in all the floor area of the building in such a manner that travel distance shall not be more than 22.5m in order to reach any of the call point.

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d. At the inlet of supply Air Duct and the return air duct of each compartment on every floor.
2. The dampers shall operate automatically and shall simultaneously switch off the air handling fans. Manual operation facilities shall also be provided.
3. Automatic Fire Dampers shall be so arranged so as to close by gravity in the direction of Air movement and to remain tightly closed upon operation of a fusible link.

K. FIRE AID FIRE FIGHTING SYSTEM:
1. Fire Aid Fire fighting arrangement in the style of placing suitable type of portable Fire Extinguishers I.S.I. mark, Fire Buckets etc. in all floors and venerable locations of the premises shall be made in accordance with I.S. 2190-1992.
2. Special rescue equipment like Smoke Hood, self contained B.A. set, portable lights at least two pairs (Hand) shall be made available in the main Fire Control Room of the premises.

O. GENERAL RECOMMENDATIONS :
1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
2. Floor number, directional sign, showing the nearest exit Refuge Area and Fire Points etc. shall have photo luminescent signs at each floor of all blocks of building including shall be made available conforming the relevant I.S. Specification.
3. If diesel oil is stored beyond the specified quantity license shall be recorded from the appropriate authority.
4. The occupants, employees and security staff shall be convenient with installed First aid Fire Fighting equipments of the building and so 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 Installation and equipments and means of escapes installed in the building to keep them in perfectly good working conditions at all times by authorized competent agency in this regard.
6. A crew of trained Firemen under the experienced Officer shall be maintained round the clock for safety of the building.
7. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
8. Each year a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the building.

On compliance of all the above Fire and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation. Final N.O.C. in favor of the occupancy shall be issued on being satisfied with the test and performance of safety aspects of the building.

N.B.: Any deviation and change in the plan of some of the building in respect of the approved plan drawing, without obtaining prior permission from this office, the Fire & Life Safety Recommendation will be treated as cancelled.

DIRECTOR
West Bengal Fire & Emergency Services

Office of the
Executive Engineer, Br.-X
The Kolkata Municipal Corpn.
Building Department, Br.-X
Dated 22/3/2018

Resolutions of MBC Meeting
FileSlnoNo 519 MeetingDate 26/05/2016 Total No of Cases: 23

MembersPresent (1) Municipal Commissioner, Chairman
(2) Director General (Building), Convener
(3) Representative of Indian Institute of Architects, West Bengal Chapter
(4) Representative of WBFES.
(5) Representative of O.C. (Traffic), Kol. Police
(6) Representative of K.M.D.C.
(7) Representative of M.E.E., Corp. of W.B.

ItemNo 026/16-17 Br 10 Ward 100 PremisesNo 412,N.S.C. Bose Road

Proposal:
This is a proposal for sanction of B+G+V storied residential building of height 18.9 m. Area of the plot is 1084.225 Sqm. & abutting road-width is 15.24 m.,
Name of Architect :- Arunava Das, CA/2007/39855
Name of Applicant:- Prabir Ghosh & Bapi Das, C.A.
Proposed Gross Floor Area: 2584.435 Sqm.
Electrical Area: - 159.314 Sqm.
Resolution:
The plan proposal has been examined in the Building Committee in detail.
The proposal was placed in previous meeting and was deferred for explaining. The architect submitted revised plan.
The representative of WBIES has stated that the two staircases are placed side by side therefore, the wall in between the two should be made RCC to increase the fire resistance capacity and he further stated that FCD as shown in one staircase is to be fitted. There is no requirement for FCD for the other staircase. Architect corrected the drawing and the plan proposal is recommended for sanction subject to compliance of other departmental requirements, if any. Department should verify area calculation.
A garbage space has to be provided inside the premises for daily clearance.
Rule 147 of Bldg. Rules, 2009 should be followed.
There is no violation of building rules, as such.

Signature of Members
BA - W.B. CHAPTER
W.B.F. & E.S.
K. P. (TRAFFIC)
MPL. ENGG. DIRECTORATE

Hon'ble Mayor & MMC(Bldg)
Above recommendation of MBC requires approval of the Mayor-in-Council in order to enable the department to process the Plan Case for sanction.

Director General (Bldg)
Municipal Commissioner

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