GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
13 D, Mirza Galib Street, Kolkata - 700016

Memo No. / WBFES/ 2829 /Dt. 22.10.2013 (EST/130/ Fire)

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

To : Sri. Rajkumar Agarwal,
Raj Agarwal & Associates,
69, Syed Street,
Kolkata-700 016.

Sub : Fire Safety Recommendation for proposed construction of 20(Ten) storied residential building at Premises Nos. 28, Shyamapada Mukherjee Road, Ward No.-IX, Borough-VIII, Kolkata-700 015.

This is in reference to your letter No. NIL dated 27.08.2013 regarding Fire Safety measures for proposed Construction of 20(Ten) storied residential building at premises Nos. 28, Shyamapada Mukherjee Road, Ward No.-IX, Borough-VIII, Kolkata-700 015.

The plan drawing submitted by you was scrutinized and marked as found necessary from fire safety point of view. Subsequently one set of plan with recommendation, this office is sending **Fire Safety Recommendation** in favour of the aforesaid building subject to the compliance of the following fire safety measures.

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

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WEST BENGAL FIRE & EMERGENCY SERVICES

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RECOMMENDATIONS

A. CONSTRUCTION :

1. Re-inforced construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body (Kolkatta/Howrah / Kalyani Municipal Corporation).
2. Fire Resistant stairs, lifted shall be suitably compartmented by separation with walls having fire resisting at least two hours Fire resisting capacity.
3. The interior finish materials of the building shall be made from those special materials conforming I.S. specifications.
4. Provision of ventilation at the crown of the centre core shaft of the building shall be provided.
5. Arrangements shall have to be made for sealing of the vertical ducts by the materials of adequate Fire resisting capacity.

B. OPEN SALES & APPROACH :

1. The open space surrounding the building shall conform the relevant building rules as well as permit free movement of fire fighting appliances with fire fighting facility.
2. The approach roads shall be sufficiently strong to withstand the load of Fire fighter weighing up to 40 kg.
3. The width and height of the access gates for the premises shall not be less than 4.5 / 3.66 respecting clearing the axial.

C. HAZARDS :

1. The thickness of the building shall be enclosed type. Entire construction shall be made of bricks / R.C.C. having fire resisting capacity not less than 4 hours.
2. The distance of the building shall have permanent vents at the top and operable sashes at each floor level to the external wall of the building.
3. The width of the staircases shall be made as mentioned in the plan. Corridors and the stair doors shall conforming the relevant building rules with up to date amendments.
4. All the enclosure shall be extended up to terrace of the building and shall be separable in each floor.
5. Fire and smoke doors at the entrances of all the lift/staircase enclosures on conform to the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting with glass window fitted with self closing type operable at the direction of escape.

D. LIFT :

1. The wells of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.
2. One of the lift shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously written at ground floor.

E. SUBWAY :

1. The basement shall be adequately ventilated.

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2. Additional manual drive fire opens air as shown in the drawing shall be constructed inside the stair conforming relevant I.S. Specifications.
3. The basement shall be protected with suitable Sprinkler system hose reel system etc.
4. Mechanical extractor for smoke venting system from basement/ancillary areas shall also be provided. The system shall be of such design as to operate on actuation of thermostatic sensor/ detector or operating. It shall also have an arrangement to run it manually.
5. Mechanical extractors shall have an alternative source of supply.

F. FIRE FIGHTING WATER :

1. Underground water reservoir having water capacity of 50,000 lits and mechanical extractor of suitable capacity installed by Fire Fighting purpose with replenishing arrangement from municipal water supply shall be provided. The water reservoir shall have suitable arrangement with the Brigade water tender to operate as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

G. HYDRANT SYSTEM :

1. The building shall be provided with Wet Riser or Dry Riser internal detector Fire Line with provision of landing valves at the Staircase landings. Hose Hydrant in the form of hose reel shall be fitted with the Riser. The system shall be designed that each hose reel shall be kept charged with Water at the time of pressure and the hose reel shall be capable of throwing a jet of water to reach any part of the building. At the top most floor, in both cases the moving pressure shall not be less than 3.5 kg/sq.cm. at the nozzle tip. Hose reel shall conforming I.S. 884 / 1976.
2. Provision for Hose Reel shall be made in conformities with Wet Riser shall be made at each floor level. Conforming Specification I.S. Specifications.
3. Provision of standard Hose Reel Type supplied from the overhead or underground water tank through Booster Pump shall have to be made in all the floor of the building under the cover of 32 mm Dia.
4. Yard Hydrant/Post Hydrant shall be done with provision of adequate numbers. Hydrant shall be installed surrounding the building in accordance with relevant I.S. specifications.

H. SPRINKLER INSTALLATION :

1. The automatic Sprinkler installation shall be provided in Basement, Ground, 1st floor either stored or Hazardous use i.e. MVA, Assembly purpose in the basement shall along with fire sprinkler system.

I. FIRE ALARM :

1. The owner of the Fire Damp shall have to be supply water at the non-designed premises and drawings into the Water Board system, which shall be installed in the building. The tank pump shall always be kept on standby profusely in all dimensions.
2. Premises Fire alarm shall profusely be made for fire Sprinkler Installation of the Hydrant Services of Jockey Pump shall also have to be made to keep the system always charged. Fire Alarm system shall be provided in the building. Fire Alarm Bell shall be provided in the staircase serving facilities. The number of points shall conformity of the recommended with both manual and automatic fire detectors shall be provided in the building. Fire Alarm Bell shall be provided in the building. The system shall be of four-wire alarm system with suitable terminal panel with enclosure.

J. ELECTRICAL INSTALLATION & EMERGENCY :

1. The electrical installations including transformers, Switch Gears, Main & Sub Distribution Boards and distribution system of the premises shall be made conforming the code of practice for Fire safety in general building as laid down in I.S. specifications (Part - 2&3).

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2. The emergency and security shall be interwoven with Internal Fire Fighting equipments of the building and be control in the event of Fire and Timing.
3. Arrangement must 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 conditions at all time.
4. A crew of trained Firemen under the experienced Officer shall be maintained round the clock for safety of the building.
5. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
6. Each year a certificate is to be obtained from the **Director General, West Bengal Fire & Emergency Services** regarding the adequacy of the Fire Fighting systems, enforcement of all the Life and Fire Safety arrangements and installations 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 issuing of the Fire Safety Certificate. In lieu of the occupancy shall be issued on being satisfied with the rules and performance of the Fire Safety installations of the building.

N.B.: Any deviation and changes in nature of use of the building in disposal of the approved plan drawing without obtaining prior permission from this office, Fire Safety Recommendation will be treated as cancelled.

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West Bengal Fire & Emergency Services

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2. The vertical ducts shall be largely sealed at alternative floor level.
3. The electrical installations must be compulsorily protected with ELCB/ELF.

4. Alternative Power Supply :

arrangements 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 for illuminating the Staircase, corridors etc. and other places of necessity of the building instead of normal power failure.

K. DETECTORS AND ALARM SYSTEM :

Manually operated Electrical Fire alarm system with at least three numbers of break glass typical boxes fitted with flashes along with audio siren system, in each floor interacting with control panel fitted in the Ground Floor. The control panel should be located in a suitable place in the Ground Floor of the building, other supplemental fire system shall be made conforming I.S. 2189 / 1988.

5. Auto fire detection system with the help of Fire and smoke detector shall be installed at all places of necessity and particularly above false ceiling of the building. The system shall be designed and installed in strictly strictly reliable vehicles have some kind. The other supplementary of fire system shall be made in accordance with I.S. 2189-1988.
6. The equipments to be provided in cross aisle Unit Independent and Central Fire Alarm system with CO2/FM-200 Portable Extinguisher, emergency and electric proofing and data stores and in a form of implementation with fire.
7. Interior will be extended in such a manner so that no operation of a Detector or Manual Call Point therein will prevent or be some Fire and transmitter alarmer Bell.

L. PASSIVE AGITATION SYSTEM :

Passive agitation system (Internal hydrants and Hydrant Hose shall have to be established.

M. AIR CONDITIONING SYSTEM (IF ANY) :

1. The A.H.U. shall be separated for each floor with the system AC Ducts for individual Floor.
2. Arrangement shall be made for isolation at the strategic locations by incorporating suitable dampers in the AC Conditioning system.
3. The outlets of each floor (room of A.H.U. shall be incorporated with the non detectors and alarm system.
4. The air handling units room shall not be used for storage of any combustible materials.

N. FIRE AID FIRE FIGHTING SYSTEM :

Fire Aid Fire fighting arrangement in the form of placing suitable type of portable Fire Extinguisher, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190 / 1992.

O. GENERAL RECOMMENDATIONS :

1. Fire Licence shall have to be obtained for proposed storing and processing with I.F.G. and other highly combustible articles.
2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Plan numbers and distribution of fire exit route shall be displayed prominently.

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Resolution of MBC Meeting

Meeting No. 478 Meeting date 29/12/2012 Total No of Cases: 13

Members Present :
1. Mayor Commissioner, Chairman
2. Deputy Commissioner (Engineering)
3. Deputy Commissioner (Finance)
4. Representative of Public Health Engineering Department
5. Representative of Kolkata Metro Rail Corporation
6. Representative of CESC Ltd.
7. Representative of CESC Limited
8. Representative of CESC Ltd.
9. Representative of CESC Ltd.

Item No. 2013/13-14 dt. 09 Ward 07 Premises No. 28, Shyama Prasad Mukherjee Rd.

Proposal :
Plan is proposed for construction of B+G+10 storied residential building at proposed height 38.8 mtr. Area of Plot plot is 1187.20 Sqm. & building stand with is 19.00 m.
Name of Architect : R.K. Agarwal, CA/89/1994, Name of applicant: Pumpkin Estate (P) Ltd.
Area Statement: Floor Area: 2245.20 Sqm., Garaged Area: 1062 Sqm.
Remarks :
The plan proposal has been presented in the Building Committee to check
Recommendation of Building Committee :
1. Shyama Prasad Mukherjee being heavily traffic congested road, the committee recommends that car parking should be increased. Accordingly, architect is advised to provide additional 2 nos of car parking in the ground floor by moving the height of the ground floor and by making the mezzanine parking system.
2. The minimum width for fire exit diversion purpose should be placed in the front open space of the plot. The architect consented the drawing accordingly on the table and the same is recommended for approval.
3. Parking is enhanced and architect is requested to provide 1st floor as office, which should be placed in the front portion.
4. Other departmental requirements, if any, are to be complied with.
5. A garbage space has to be provided inside the premises for daily disposal.
6. Provisions of Rule 147 & Appendix of rule 5.0 & 6.0 & 9.0 of Building rules 2009 is to be complied as shown in drawing.
7. Rule 147 should be complied with.
There is no violation of building rules as such.

Department of Municipal Affairs

Approved

Director of Municipal Affairs

Approved

Minister of Municipal Affairs

Approved

Chairman

Member Secretary

Chairman

Member

Member

Member