GOVERNMENT OF WEST BENGAL
Office of the Director General
West Bengal Fire & Emergency Services
1 Mt. Hilva Gath Street, Kolkata – 700 016.

Memo. No. / WBFES-(Adv.)-16 / Risk-1/2015/02 (69PCS) Date: 18-04-16

From : The Director in Charge
Fire Prevention Wing
West Bengal Fire & Emergency Services.

To : Mr. Rakesh Anand,
Anand & Associates,
115, Barasat Rd Rd.
Kolkata-700 012.

Sub : Revised Fire Safety Recommendation for the Proposed Construction of G+XII Storied Residential Building at the Premises No: 20, Canal East Road, Kolkata-700 015, Ward No.-94, Borough No.-IV.

This is in reference to your letter No. Nil, dated. 05.01.2016, regarding Fire Safety Clearance for proposed construction of G+XII Storied Residential Building at the Premises No:-20, Canal East Road, Kolkata-700 015, Ward No.-94, Borough No.-IV.

The plan submitted by you were scrutinized and marked as found necessary from fire safety point of view. In returning one set of plan with recommendation, this office is issuing Revised Fire Safety Recommendation in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Enclosed:

1. One set of plan.
2. Recommendation placed in five file.

Director in Charge
Fire Prevention Wing
West Bengal Fire & Emergency Services

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RECOMMENDATION

A. CONSTRUCTION:

1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
2. The floor area exceeds 1000 m² shall be mainly compartmented by separation walls up to ceiling level including at least two hours Fire resisting capacity.
3. The Inside Walls, partition of the building shall be made from Non-combustible materials conforming I.S. specification.
4. Provision of ventilation at the crown of the Central case duct of the building shall be provided.
5. Arrangements shall have to made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

B. OPEN SPACE & APPROACH:

1. The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and manoeuvrable ity of Fire appliance with turning facility.
2. The approach roads shall be sufficiently strong to withstand the load of Fire Engine Weighing upto 45 MT.
3. The width and height of the entrance gates into the premises shall not less than 4.5 - 5 M respectively allowing the road.

C. STAIRCASE :

1. The staircase of the building shall be enclosed type. Entire construction shall be made of Bricks / R.C.C. type having fire resisting capacity not less than 4 hours.
2. The staircase of the building shall have permanent vent at the top and operable vents at each floor level in the external wall of the building.
3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules and well as rules of the Chemmarapalli Act 1950 upto-date amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each space without entering into any rooms.
5. Fire and smoke doors with arrangement of all the Staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire gauze window Fixed with self closing type open side in the direction of escape.

D. LIFT:

1. The wall of the lift machine shall be of Fire proof construction Fire Resisting type.
2. Collapsible gate shall not be permitted.

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7. One of the lifts shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously be written at ground floor.

E. EXIT AREA :

1. Refuge area or wait area (12 Sqm. shall be provided on the external wall with easy approach or open to open space) at the top floor (3rd floor) of the building or above in the Drawing.
2. The Refuge area shall be of Fire resisting construction and protected with self Fire Fighting F.C.D. at the entrance from the corridor or enclosed lobbies.
3. The position of refuge area shall be such so that they are capable to be the Fire Escape Ladder from the Ground.

F. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 1,00,000 Ltrs. and overhead reservoir of 25,000 Ltrs capacity exclusively for Firefighting purpose with replenishing arrangement of 1000 ltrs/min preferably from two different sources of water supply shall be provided. The Water reservoir shall have gravity arrangement with the domestic Water Reservoir as well as to avoid stagnancy of water. The water reservoirs shall be kept full at all time.

G. HYDRANT SYSTEM:

1. The building shall be provided with Wet Riser of 150 mm internal diameter pipe line with provision of hose connection on each floor level including Terrace of the size of one inch outer for 100 Sq m of floor area. The system shall be designed that shall be kept charged with Water at the Terrace level pressure and capable to discharge 2280 ltr./min at the ground floor level and at least 360 ltr/min at the top most floor level. In the upper floors the pressure shall not be less than 3.5 Kgf/Cm2. Hydrants on the wet risers shall conform I.S. 2190-1989.

A 1100 mm hose reel shall conform I.S. 2186-1989.

2. Provision for Dry Riser in conjunction with wet Riser shall be made at each floor level and both sides of the staircase hall, which shall be Centre coupling 63 mm as I.S. specification.
3. Yard Hydrant/Ring Main Hydrant with provision of adequate number Hydrant shall be installed around the building in accordance with relevant I.S. specification.

H. FIRE PUMP:

Provision of the Fire Pump shall be to be made to supply water at the rate designed pressure and discharge from the water based system, which shall be installed in the building. Two such pump shall always be kept on Standby preferably be of different types.

Provision of Pump Room shall also have to be made to keep the Water based system under pressurized condition at a. Cut Off. All the pumps shall be interconnected with both manual and auto starting facility. The action of pumps preferably of positive type to be one negative pump in the pump room and the Wet Riser/Dry Riser/Drencher with sufficient Power Reserve with overhead tank.

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I. ELECTRICAL INSTALLATION & DISTRIBUTION:

1. The electrical installation including transformers, Switch Gears, Main & Meters etc. and the distribution system of the premises shall be made as strictly as the code of practice for Fire Safety in general building as IS Codes in I.S specification 1646-1982.
2. The vertical and horizontal exterior conduit work shall be fire retarding material.
3. The electrical installations shall be adequately protected with automatic Fire Detection and Suppression System as per relevant I.S. specification.
4. A certain 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 assembly of the building in case of external power failure.

J. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least two numbers of break glass type call points Fire with Hooters along with public address system at all floor connecting with sound proof boxes shall be made in Control Room. The Control Room shall be located at the entrance of Ground Floor of the building, other requirements of the system shall be made conforming I.S 2189-1988.
2. Auto fire detection system with the help of heat and smoke detector shall be installed in all places of below and preferably above false ceiling of the building. The system shall also be made in places of round where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S 2189-1988.
3. The supervision system shall be made with Fire Extinguisher pipes only in concealed and Electrical conducting and dry mode and in a manner of approvable article.
4. Hooters will be installed in such a manner so that on operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.
5. Public Address System:

Public address system linked between all floors and control Room shall have to be established.

K. AIR CONDITIONING SYSTEM:

1. The A.H.U shall be separated for each floor with Co system. Air Ducts are individual Room.
2. Arrangement shall be made for isolation at the strategic location by incorporating suitable dampers in the Air Conditioning System.

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3. The system is made in the form of A.H.U. shall be incorporated with the auto detection and alarm system.
4. The air ducts which room shall not be used for storage of any combustible materials.

L. FIRST AID FIRE FIGHTING SYSTEM:

Fire, Aid Fire Fighting arrangement in the form of placing portable type at per the Fire Extinguisher, Fire buckets etc. in all floors and at suitable locations as per provisions shall be made in accordance with I.S. 2190-1992.

M. GENERAL RECOMMENDATIONS:

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and plan highly combustible articles.
2. Disposable type B.A. sets to be kept always for emergency fire situation.
3. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all conspicuous places of the building.
4. Floor numbers and directional sign of escape and be shall be displayed prominently.
5. The employees and security staff shall be conversant with initiative Fire Fighting to Occupants of the building and be trained in the event of Fire and Testing.
6. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the building to keep them in perfectly good working condition at all time.
7. A crew of trained persons shall be organized and shall round the clock for safety of the building.
8. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
9. Both yearly certificate, to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of the Fire Life & Fire safety arrangements installation of the building.

On completion of all the above Fire and Life safety arrangements, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation. Fire Safety Certificate in favour of the occupants shall be issued on being satisfied with the state and performance of safety aspects of installation of the building.

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

Director in Charge
Fire Prevention Wing
West Bengal Fire & Emergency Services

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SITE PLAN **PARTY'S COPY** SITE PLAN

Plan for Water Supply arrangement including SEMILI G. & O. H. reservoirs should be submitted at the Office of the Ex-Engineer Water Supply and the sanction obtained before proceeding with the work of Water Supply any deviation may lead to disconnection/demolition.

A suitable pump has to be provided i.e. pumping unfiltered water for the distribution to the flushing cisterns and urinals in the building incase unfiltered water from street main is not available.

Before starting any Construction the site must conform with the plans sanctioned and all theconditions as proposed in the plan should be fulfilled.

The validity of the written permission to execute the work is subject to the above conditions.

All Building Materials to necessary & construction should conform's to standered specified in the National Building Code of India.

The sanction refers to the proposed portion shown in red and the Executive Engineers makes no admission as to the correctness of the plan.

No rain water pipe should be fixed or discharged on Road or Footpath. Drainage plan should be submitted at the Borough Executive Engineer's Office and the sanction obtained before proceeding with the drainage work.

THE KOLKATA MUNICIPAL CORPORATION
BUILDING PERMIT
No. 2016030048
Date 26/09/16 Borough No. III
Dy. ch. Ex. Engineer / Asst. Engineer
Bor. No. III Bor. No. III
★ BUILDING DEPARTMENT ★

"Provision for use of solar energy in the form of solar heater and/or solar photo-colles shall be provided as required under Rule 147 of Building Rules, 2009 and completion certificate will not be issued in case of building without having such provision"

Non Commencement of Erection/ Re-Erection within Two Year will Require Fresh Application for Sanction.

Approved subject to Compliance of requisition of West Bengal Fire Services. If any.

Recommended in M. B. C.
Meeting No. 5201
Item No. 058/16-17
Dated 15/06/16

THE SANCTION IS VALIED UP TO 25-09-2021

DEVIATION WOULD MEAN DEMOLITION

APPROVED BY M.B.C.
Dated 15/06/16

Design of all Structural Members including that of the foundation should conform to Standards specified in the National Building Code of India

CONSTRUCTION SITE SHALL BE MAINTAINED TO PREVENT MOSQUITO BREEDING AS REQUIRED U/S 496 (1) & (2) OF CMC ACT 1980 IN SUCH MANNER SO THAT ALL WATER COLLECTION & PARTICULARLY LIFT WELLS, VATS BASEMENT CURING SITES, OPEN RECEPTACLES ETC MUST BE EMPITED COMPLETELY TWICE A WEEK.

The building materials that will be stacked on Road/Passage or Foot-path beyond 3-months or after construction of G. Floor, whichever is earlier may be seized forthwith by the K.M.C. at the cost and risk of the owner.

Sanctioned subject to demolition of existing structure to provide open space as per plan before construction is started

Dy. ch. Executive Engineer (O) BR. - III
Asst. Engineer (O) BR-PLAN - III

RESIDENTIAL BUILDING

Building Department
Borough-III, K.M.C.
Date 23/09/16 Sign.
Contents Not Verified