GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
13-D, Mirza Galib Street, Kolkata – 700 016.

Memo No.: WBFES/1761/14 /Kol-RB/56/14 (56/14) Date: 16.06.14

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

To: Mr. Kumar Patodia
C.A. of Rana Das & Lachmi Dey
207, A.J.C. Bose Road,
Kolkata-700 017.

Sub: Fire & Life Safety Recommendation for proposed construction of G+XI storied Residential Building at premises No.- 174/8, N.S.C. Bose Road, Ward No-98, Borough-X, Kolkata-700 040.

This is in reference to your letter No. Nil dated 14.01.2014 regarding Fire Safety measure for proposed Construction of G+XI storied Residential Building at premises No.- 174/8, N.S.C. Bose Road, Ward No-98, Borough-X, Kolkata-700 040.

The plan drawing 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.

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

[signature] 16/6/14
DIRECTOR IN CHARGE
FIRE PREVENTION WING
WEST BENGAL FIRE & EMERGENCY SERVICES

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 (Kolkata Municipal Corporation).
2. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
3. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
4. Arrangements shall have to be 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 manoeuvrability of Fire appliance with turning facility.
2. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
3. The width and height of the access gates into the premises shall not be less than 5.0 – 5.0 M respecting abutting 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 vents at the top and openable sashes 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 with up-to-date amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each floor.
5. Fire and smoke doors at the entrances 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 glass window fitted with self-closing type openable in the direction of escape.

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

E. REFUGE AREA:
1. Refuge area is not less than 15 Sqm. Shall be provided on the external wall with cantilever projection or other suitable 23.4 m levels of the building as shown in the drawings.
2. The Refuge areas shall be of Fire resisting construction and protected with self-closing F.C.D. at the entrance from the corridors at staircase lobbies.
3. The position of Refuge areas shall be such so that they are negotiable by the Fire Services Ladder from the Ground.

F. FIRE FIGHTING WATER:
Underground water reservoir having water capacity of 75,000 ltrs. exclusively for Fire fighting purpose with replenishing arrangements @ 1000 lts./min. Preferably from two different sources of water supply shall be provided. The water reservoir shall have overflow arrangement with the

domestic water reservoir 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 of 100mm. internal diameter Pipe Line with provision of landing valves at the Staircase landings / half landings at the rate of one such riser for 1000 Sq.m. of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 2400 lts/min. at the ground floor level outlet and minimum 900lts/min. at the top most outlet. In both cases the running pressure shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.
2 Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level. Conforming the relevant I. S. Specifications.
3 Yard Hydrant/Ring Main Hydrant 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 the Ground & 1st floor show room of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.

I. FIRE PUMP:
Provision of the 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 of the Building. Provision of Jockey Pump shall also have to be made to keep the Water based system under pressurized condition 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 with overhead tank.

J. 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 & horizontal ducts shall be supply sealed at each floor level by fire resisting material.
3 The electrical installation shall be adequately protected with CO_2/D.C.P. Fire extinguishers.
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 assembly of the building incase of normal power failure.

K. DETECTION AND ALARM SYSTEM:
1. Manually operated Electrical Fire Alarm system with at least three numbers of break glass typecall boxes fitted with Hooters at each floor connecting with visual panel board 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 show rooms & community areas of below and preferably above false ceiling of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.
3. The suppression system shall be made with Fire Extinguishers particularly in computer and electric processing and data room and in a room of irreplaceable articles.

4. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.

L. AIR CONDITIONING SYSTEM (If any):
1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors.
2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning 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 units room shall not be used for storage of any combustible materials.

M. 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.

N. 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 Adequate Fire Mask to be provided.
3 Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
4 Floor numbers and directional sign of escape route shall be displayed prominently.
5 The employees and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate 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 conditions at all times.
7 A crew of trained Fireman under the experienced Officer shall be maintained 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 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 favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B.: 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.

[signature] 16/6/14
DIRECTOR IN CHARGE
FIRE PREVENTION WING
WEST BENGAL FIRE& EMERGENCY SERVICES

Office of the
Executive Engineer, Br.-X
The Kolkata Municipal Corpn.
Building Department, Br.-X
Dated 18/08/15

PARTY'S COPY

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.

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.

Sanctioned By: [signature]
Assistant Engineer (C-B) Br. No. X

Approved By: 18-02-15
The Building Committee

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

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.

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

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

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

Necessary steps should be taken for the safety of the lives of the adjoining public and private properties during construction.

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

DEVIATION WOULD MEAN DEMOLITION

RESIDENTIAL BUILDING

Sanctioned conditionally on an undertaking duly registered from the owner's to the effect till they will not evict any tenants & will also provide the tenants with identical area in and around the premises by mutual arrangements.

APPROVED
ON 30-03-15

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.

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.

THE KOLKATA MUNICIPAL CORPORATION
BUILDING PERMIT
No. 2015100072
Date 18-08-15 Borough No. X
[signature]
Ex. Engineer / Asst. Engineer
Br. No. X Bor. No. ......
★ BUILDING DEPARTMENT ★

THE SANCTION IS VALIED UP TO 17-08-20

Sanctioned subject to demolition of existing structure to provide open space as per plan before construction is started
[signature]
Executive Engineer (C) BR. X
Asst. Engineer (C) Br. PLAN

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

Any unathorised construction done in deviation from the Sanction Building permit and the Completion Plans after issuance of this Completion Plans may cause revocation of the Occupancy Certificate.

191/Br.X/14-15

[signature]

14 AUG 2015