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

Memo No.: WBFES/ (2-5) 17 /Kol-RB/1324/16(1324/16) Date: 17 17

Kolkata - 700 016

Subject: Fire Safety Recommendation for proposed construction of G+XII & G+IV itorled Residential Buildings at premises no.- 28/1, Dover Road, Ward No.-

69, Borough No.- VIII, Kolketa - 700 019. This is in reference to your letter No. - Nil dated 21.11.2016 regarding Fire Safety recommendation for proposed construction of G+XII & G+IV storied Residential Buildings at

premises no.- 28/1, Dover Road, Ward No.- 69, Borough No.- VIII, Kolkata -- 700 019. The plan drawings submitted by you were scrutinited 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 layour of the aforesaid buildings subject to the compliance of the following fire safety measure.

OFFICE OF THE EX-ENGINEER (CIVIL)

BUILDING PARTMENT

BOROLON-VIII

THE KOLKATAMUNICIPAL CORPORATION

104, RASH BEHARI AVENUE

5. Lift communication system shall be provided in the lift and this system shall be connected to E. REFUGE AREA:

t. Refuge area is not less than 15sum, or an area equivalent to 0.3 m² per person to accommodute the occupants of two consecutive floors, whichever is higher, shall be provided on the external wall with cantilever projection or other suitable means at level 23.362 mts. of the building as shown in the drawing.

2. The rufuge area shall be of Fire Resisting construction and protected with self-closing F.C.D. at the entrance from the corridor or the staircase lobbies.

3. The position of Refuge areas shall be such that they are negotiable by the fire service ladder in such a manner for easy operation of hydraulic platform from the ground level.

F. FIRE FIGHTING WATER:
Underground water reservoir having water capacity at 1,03,500 ltrs. & O.H.W.R. of 5,000 lts.
capacity exclusively for Fire Fighting purpose with replenishing arrangement @ 1000 Ltrs/Min.
preferably from two different sources of water supply shall be provided. The Fire 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 150 mm internal diameter pipe line with provision of landing valves at each staircase landing/half landings with door hose boxes, containing one length of 63mm delivery hase and short branch pipe at the rate of one such riser for 1000 Sq.Mt. of floor area. The system shall be so designed that be kept charged with Water all the time under pressure and capable to discharge 2280 Ltrs/Min, at the ground floor level outlet and minimum 900 Ltrs/Min, at the top most outlet, in both cases the running pressure shall not be less than 1.5 Kgs/Sqcin, All other requirements shall conform LS, 3844-1989.

2. Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level conforming the relevant LS, specification.

3. Ring Main Hydrant with provision of adequate numbers yard hydrant shall be installed surgenting the relevant LS.

surrounding the building alongwith one no. 3way Fire Service infet in accordance with relevant LS, specification. 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 dieset driven type:

Provision of Jockey Pump shall also have to be fraule to keep the Water based system under
pressurized condition at all the time. All the pumps shall the incorporated with both manual and

1. The electrical installation shall be adequately protected with CO2/D.C.P. and Medium Velocity

Projector System.

4. Alternative Power Supply:

Armaguments shall have to be made to supply power with help of a generator to operate at least the Fire Pump. Pump-for deep Tube-well, Fire Alarm System, Fire Lift, smoke extraction and damper systems etc. and also for illuminating the Staircase, Corridors etc. and other places of assembly of the building incase of normal power failure.

J. DETECTION, ALARM AND SUPPRESSION SYSTEM

1. Monually operated Electrical Fire Alarm System with break glass type call boxes fitted with Hooters along with public address system, talk back system at each floor lobby areas of G+XII storied building connecting with audio-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 LS, 2189-1988.

2. Auto fire detection system with the help of smoke detector shall be installed in all floor lobby areas of G+XII storied 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 L, S, 2189 – 1988.

accordance with 1. S. 2189 - 1988.

3. Honter will be sounded in such a manner so that on operation of a Detector or Manual Call Point Honters will sounded on the same floor and immediate alternate floor.

Public Address System linked between all floors and Control Room shall have to be

K. AIR CONDITIONING SYSTEM: (If any)
 The A.H.U. shall be separated for each floor with the system Air Ducts for individual fluors.
 Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning System.
 The system of auto shut down of A.H.U. shall be incorporated with the auto detection and clarm system.

alarm system.

4. The Air Handling Units room shall not be used for storage of any combustible materials.

M. GENERAL RECOMMENDATIONS :

L FIRST AID FIRE FIGHTING SYSTEM:
First Aid Fire Fighting arrangement in the style Transfirm suitable type of portable Fire Extinguishers. Fire Buckets etc. in all floors including basements and vulnerable locations of the premises shall be made in accordance with 1.5. specification.

1. Fire License shall have to be obtained for proposal storing and processing with L.P.G. and other highly combustible articles.

OFFICE OF THE EX ENGINEER (CIVIL) BUILDING LEWARFMENT ™BOROÐGH∜VIII

THE KOLKATA MUNICIPAL CORPORATION

104, RASH BEHARI AVENUE

KOLKATA-700 029

ELECTRICAL INSTALLATION & DISTRIBUTION:

1. The electrical installation including transformers, Switch Gears, Main & Meters etc. at OLKATA-700 029

in general building as laid down in the 1.S. specification 1946-1982.

2. The vertical duets shall be supply scaled at all floor level.

3. The electrical installation shall be adequately protected with CO2/D.C.P. and Medium Velocity 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 The Kolkata Municipal Corporation. 2. The floor area exceeds 750 Sq.Mts. shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity. 3. The interior finish decoration of the building shall be made low flame spread materials

conforming LS, specifications. 4. Provision of ventilation at the crown of the central core-duct of the building shall be provided. 5. Arrangements shall have to be made for sealing all the vertical and horizontal ducts, shafts 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 maneuvernbility of Fire appliance with turning facility. 2. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 3. The width and height of the access gates into the premises shall not be less than 4.5 Mts. and 5

Mts 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 amendment. 4. All the staircases shall be extended up to the terrace of the building and shall be negotiable to each other without entering into any room. 5. Fire and smoke doors at the entrances of basement stoircase as marked in the plan 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. 1. The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate

shall not be permitted.

2. Lift shall be designed as Fire Lift. The word "FIRE-EPPT" shall conspicuously written in fluorescent paint on the lift landing doors at each floor love!

3. Alternate source of power supply shall be provided for all lifts intough manually operated of the constitution of the con

BUILDING DEPARTMENT THE KOLKATA MUNICIPAL CORPORATION 104, RASH BEHARI AVENUE KOLKATA-700 029

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. Flour numbers and directional sign of escape route shall be displayed prominently.

4. 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.

5. 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.

6. A crew of trained Fireman under the experienced Officer shall be maintained round the clock.

7. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

1. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

Alter obtaining Fire Safety Certificate each year a certificate is to be obtained from the Director General. West Bengal Fire & Emergency Services certifying about the satisfactory services, performances of all Fire Safety arrangements and installation of the building. On compliance of all the above Fire Safety recommendations, 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 occupancy shall be issued on being statisfied with the tests and performances of safety aspects of installation of the buildings.

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

Berono 105/17-19 Br 08 Ward 069 Precabelino 28/1, Dover Road

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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.

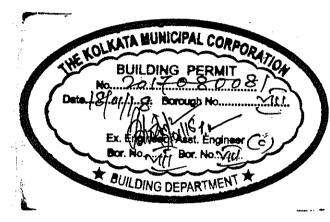
pumping unfiltered water for the distribution to the flushing cisterns and urinals in the building incase unfiltered water from street main is not available.

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

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

DEVIATION WOULD MEAN DEMOLITION

THE SANCTION IS VALIED UP TO 17-01, 2023



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.

CONSTRUCTION SITE SHALL BE MAINTAINE 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.

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

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

Sanctioned subject to demolition of existing structure to provide open space as per plan before construction is started Asst. Engineer (C) Br. PLAN VILL

Approved By: MBC Meating No. 537

