

Government of West Bengal  
Office of the Director General  
West Bengal Fire & Emergency Services  
13D, Mirza Ghalib Street, Kolkata - 700 016.

Memo No. WBFES/1855/2020/IND/WB/FES/20192020/72047 Dated: 13.08.2020

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

To : Shristi Infrastructure Development Corporation Ltd.  
Plot no-jl. No-52, Khatian no-4733, Dag no-7884, Mouza Raipukur, Ward no-16  
(now-17), NH-34, At Krishnanagar Sentrum, Dist-nadia, W.B, Pin-741101.



**Sub: Revised Fire Safety Recommendation for a Proposed construction G+XIII storied storage building comprising with tower-3 & tower -4 under group residential cum commercial building in the name of "Shristi Infrastructure Development Corporation Ltd." Plot no-jl. No-52, Khatian no-4733, Dag no-7884, Mouza Raipukur, Ward no-16(now-17), NH-34, At Krishnanagar Sentrum, Dist-nadia, W.B, Pin-741101.**

This is reference to your online application IND/WB/FES/20192020/72047 regarding the Fire Safety Recommendation for a Proposed construction G+XIII storied storage building comprising with tower-3 & tower -4 under group residential cum commercial building in the name of "Shristi Infrastructure Development Corporation Ltd." Plot no-jl. No-52, Khatian no-4733, Dag no-7884, Mouza Raipukur, Ward no-16(now-17), NH-34, At Krishnanagar Sentrum, Dist-nadia, W.B, Pin-741101.

The plan drawing submitted by you was scrutinized and mark as found necessary from fire safety point of view. In returning one set plan with recommendation, his office is issuing Fire Safety Recommendation in favour of the aforesaid Building subject to the compliance of the following Fire safety Measure.

**Recommendation:-**

**CONSTRUCTION:**

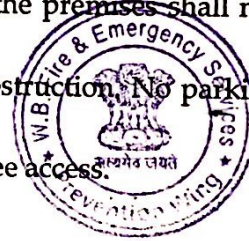
1. The whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of KMC. *BNL*



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. Arrangement shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate fire resisting capacity.

#### OPEN SPACE AND APPROACH:

1. The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.
2. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 45M.T.
3. The width and height of the access gate into the premises shall not be less than 4.5 mts. and 5.0 mts. respecting the abutting road.
4. Drive way should be free from any type of obstruction. No parking will be allowed on the drive way.
5. All the Passage way should be kept clear for free access.



#### 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 open able sashes at each floor level in the external walls of the building.
3. The width of the staircase shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant Building Rules with up to date amendment.
4. All the staircase shall be extended up to terrace of the building and shall be negotiated 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.
6. Fire lift and FCD as per NBC.

#### FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 200000 ltrs. and overhead water reservoir having capacity of 20000 ltrs. Each block Exclusively for fire-fighting purpose with replenishing arrangements @ 1000 ltrs/min. preferably from two different sources of water supply shall be provided. The water reservoirs 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.

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### HYDRANT SYSTEM:

1. The building shall be provided with Wet Riser of 150 mm. internal diameter pipe line with provision of twin outlet landing valves at the staircase landings/half landings at the rate of one such riser for 1000 sqm. 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 2850 ltrs /min. at the ground level outlet and minimum 900 ltrs/min. at the top most outlet. In both cases the running pressure shall not be less than 5 kgs/sq.cm. All other requirements shall conforming I.S. specifications.
2. Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level and conforming the relevant I.S. Specifications.

### FIRE PUMP:

1. Provision of the Two no Electric & One no Diesel engine Fire Pump 2850 LPM shall have to be made to supply water at the rate-designed pressure and discharge into to 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.
2. Provision of the Jockey Pump 180 LPM 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.
3. Provision of the Sprinkler 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.

### ELECTRICAL INSTALLATION AND DISTRIBUTION:

1. The electrical installation including Transformers, Switch Gear, 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 specifications.
2. The vertical and horizontal electrical ducts shall be sealed at each floor level by fire resisting materials.
3. The electrical installation shall be adequately protected with CO2/D.C.P. Fire Extinguishers conforming I.S. specification.
4. Arrangement for alternative power supply shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Deep Tube-Well Pump, Fire Alarm System etc. and also for illuminating the Staircase, Corridors, Lobbies etc. and other places of assembly of the building in case of normal power failure.

### DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm System with at least one number of break glass type call boxes fitted with Hooters along with Public Address System at each floor connecting with visual panel board shall be made in Control Room. The Control

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Room shall be located at entrance of ground floor of the building, other requirements of the system shall be made conforming I.S. specifications.

2. Hooters will be sounded in such a manner so that an operation of Manual Call Point. Hooters will be sounded on the same floor and immediate alternate floor.
3. Public Address System linked between all floors and Control Room shall have to be established.

**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 article.

**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. specifications.

**GENERAL RECOMMENDATIONS:**

1. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
2. Fire license shall have to be obtained for proposed storing and processing with L.P.G and other highly combustible articles.
3. Gas bank if any shall be protected with automatic sprinkler, gas sensor with alarm, Isolation valve and B.C rating D.C.P Extinguisher minimum capacity of 9 kg.
4. Floor numbers and directional sign of escape route shall be displayed prominently.
5. The employees and security staffs 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 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 the building.
9. Every three years 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 installation of the building.

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On compliance of all the above Life and Fire Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approved for necessary inspection and testing of all the installation, Fire Safety Certificate 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.

*DM*  
12/8/20  
Director in Charge  
Fire Prevention Wing  
West Bengal Fire & Emergency Services.

