

From:
Director
Fire Prevention Wing,
West Bengal Fire & Emergency Services

To: SYSTRON ELECTRONICS PRIVATE LIMITED
PLOT NO. J5,BLOCK-GP,SECTOR V,SALT LAKE ELECTRONICS COMPLEX,KOLKATA-700091, UNDER
NABADIGANTA INDUSTRIAL TOWNSHIP AUTHORITY.

Sub: Fire Safety Recommendation in respect of One number of Proposed B+G+11 Storied under group
“BUSINESS” Building at Plot No. J5, Block- GP, Sector- V, Salt Lake Electronics Complex, under the Nabadiganta
Industrial Township Authority, Kolkata- 700091.

This is in reference to your application no. 0125186231100821 dated 03-08-2023 regarding the Fire Safety Recommendation in respect of One number of Proposed B+G+11 Storied under group “BUSINESS” Building at Plot No. J5, Block- GP, Sector- V, Salt Lake Electronics Complex, under the Nabadiganta Industrial Township Authority, Kolkata-700091.

The plan 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 is issuing Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

CONSTRUCTION:

- 1.The Building shall be as per approved plan drawings conforming the relevant building rules of local Body & N.B.C. of India (Part-4) 2016.
- 2.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. 1642 :2013 specifications.
- 3.Provision of ventilation at the crown of the central core-duct (if constructed) of the each building shall be provided.
- 4.Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire Resisting capacity & the doors of service ducts / shafts shall be of minimum 2 hours Fire Resistance Rating.

2.The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall be as per approved building plan/drawing

3.Fire Check Doors shall be installed to enclose all the Staircases of all Buildings. The specification of the FCD shall strictly in accordance with the I.S. 3614 (Part-I)1966.

FIRE FIGHTING WATER :

1.The Building shall be provided with Under Ground Water Reservoir of 75000 Litres capacity and Over Head Water Reservoir of 10000 Litres Capacity exclusively for Fire Fighting Purposes. In addition, there shall be arrangement of water replenishment for Over Head Water Reservoirs @ 1000 Litres per Minute to keep them full at all time.

2.The Fire water reservoirs shall have overflow arrangement with the domestic water reservoir so as to avoid stagnancy of water.

3.Provision of necessary manhole shall be made on the top of this reservoir as per specification of N.B.C. (Part-4) of India 2016.

4.The deep tube well or any other Pump provided for the replenishment of the U.G.W.R. & O.H.W.R. shall have Auto Starting Facilities connected with Fire Switches or Level Sensors.

WATER LAYOUT SYSTEM:

1.The building shall be provided with Wet Risers System of 100mm internal diameter with provisions of Landing Valves and Hose Reel units on swivelling drum in conjunction with Wet Risers System on each floor and @ one such Wet Riser for every 1000 Sq. Meters Floor Area in according with the I.S. 3844 – 1989.

2.Adequate Nos. of Fire Service Inlet shall be provided to the building at the strategic locations.

3.External Fire Hydrant System of 150mm diameter pipelines and according to the I.S. 13039:1991 standard at an interval of every 30 Meters in conjunction of 2 Nos. of Delivery Hoses each 15 Mtrs. in length along with a suitable Branch Pipe in a Hose Box shall be provided.

AUTO SPRINKLERS SYSTEM:

1.All floor areas shall be protected by Automatic Sprinklers System.

2.The Sprinklers pump shall be fed from the terrace tank in-addition to the U.G.W.R.

FIRE PUMPS:

1.One set of Fire Pumps consisting of Two Electric and One Diesel (As Stand By) of capacity 2850 Litre/Min and Two Electric Fire Pump (As Jockey) having discharge capacity of 180 Litre/Min shall be provided for the Building to deliver Fire Fighting Water into the Master Base System.

2.All the aforesaid Fire Pumps shall be incorporated with both manual and auto starting facilities. The suction of Fire Pumps shall preferably be of positive type.

1.The electrical installation including 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 1646 – 1982.

2.Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.

3.The electrical installation shall be adequately protected with automatic CO2/D.C.P. Fire Extinguishing Medium.

4.All electrical installation viz. Transformer Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.

5.Alternative Power Supply : Arrangements shall have to be made to supply power with the help of adequate capacity's diesel generator to operate at least the Fire Pumps, 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 normal power failure.

DETECTION AND ALARM SYSTEM:

4.Manually operated Electrical Fire Alarm system with at least three numbers of break glass type call boxes fitted with Hooters along with public address system, at each floor 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 I.S. 2189 – 1988.

5.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 rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988

6.Hooter shall 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.

INTELLIGENCE ANALOGUE SYSTEM :

4.Auto Fire Alarm System with analogue addressable smoke / Heat detector as per suitability shall be installed in each floor.

5.Both way public address systems shall be made available in all floors of the building. The system shall be connected to the Main Control Room.

6.All the installations shall also be satisfy the I.S. specifications 2189 (as amended) and the code of practice as laid down in the N.B.C. Part-IV.

1. Disposable type B. A. Masks always to be kept in the buildings for emergency fire situation.

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

4. The occupancy and security staff shall be conversant with installed Fire Fighting equipment's 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 equipment's installed in the building to keep them in perfectly good working conditions at all times.

6. A crew of trained Fire Fighters under an experienced Fire Officer shall be available in the premises round the clock for safety of the buildings.

7. Mock Fire Fighting Exercise and Evacuation Drill shall be performed periodically with participation of all occupants of buildings.

After fully compliance of all the above Fire Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installations. Fire Safety Certificate in favor of the occupancy may be issued on being satisfied with the tests and performances of safety provisions and installations of the buildings.

N.B. :Any Civil / Structural deviation and changes or changes to the nature of use of the building or part thereof in respect of the approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Signature Not Verified
Digitally signed by ABHIJIT
PANDEY
Date: 2023.10.06 14:24:33 IST

DIRECTOR
West Bengal Fire & Emergency Services