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Government of West Bengal
Office of the Divisional Fire Officer
West Bengal Fire & Emergency Services
First Floor of Duragapur Fire Station, Durgapur City Centre, P.O.:- Durgapur, P.S.:- Durgapur, Pin:- 713216

Memo No.: FSR/211862506300016112

Date : 16-09-2025

From :
Divisional Fire Officer
Paschim Bardhaman
West Bengal Fire & Emergency Services

To :
Mr. Surajit Banik And Mrs. Samarpita Saha Banik.
Plot no-R.S 1016(P), L.R 1216, L.R Kh no.4383, 4387, J.L no. 105, Mouza Jemua, P.S New Township, Dist.Paschim Bardhaman.

Sub: Issuance of Fire Safety Recommendation for proposed construction of B+G+IX storied Residential building in favour of Mr. Surajit Banik And Mrs. Samarpita Saha Banik at Plot no-R.S 1016(P), L.R 1216, L.R Kh no.4383, 4387, J.L no. 105, Mouza Jemua, P.S New Township, Dist.Paschim Bardhaman..

Memo No.: FSR/211862506300016112

This is in reference to your AIN 211862506300016112 dated 24-Jul-2025 regarding Issuance of Fire Safety Recommendation for proposed construction of B+G+IX storied Residential building in favour of Mr. Surajit Banik And Mrs. Samarpita Saha Banik at Plot no-R.S 1016(P), L.R 1216, L.R Kh no.4383, 4387, J.L no. 105, Mouza Jemua, P.S New Township, Dist.Paschim Bardhaman.

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 office is issuing Fire Safety Recommendation in favor of the aforesaid building for compliance of the following fire safety measure.

Recommendation :

A. CONSTRUCTION:

1. Materials for rapid flame, toxic smoke / fumes spread materials / categories including untreated wood fiber board etc. shall not be used.
2. 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



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3. 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.
4. The interior finish decoration of the building shall be made with low flame spread materials conforming I.S. specifications.
5. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
6. Arrangements shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts of 2 hr. fire rating.
7. Auditorium areas should be mechanically exhausted of smoke in such a manner so that the exhaust system should be auto start with the actuation of detector and also to be auto shut off with the actuation of Sprinkler System & the mechanically smoke venting system shall be Fire safe as per N.B.C. Part – IV Fire Protection.

B. OPEN SPACE & APPROACH:

1. The open space surrounding the building shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and maneuverability of Fire appliances with turning facility.
2. The approach roads & internal drive ways 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 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. All principal staircases from ground to top floor and all the staircases from lower basement to ground floor and upper basement to ground floor shall be pressurized as marked in the plan. A positive pressure of 50 pa. shall be maintained inside the staircases. Pressurization system shall operate automatically / manually on actuation of fire alarm system & sprinkler system.
6. 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. Collapsible



3. One of the lift car of the building shall be large enough to accommodate standard Ambulance Stretcher and Medical Attendants.
4. Arrangement shall be provided for extraction of smoke in all the lift shaft by incorporation smoke venting system designed to permit 30 Air changes per hour in case of Fire shall be of such design as to operate on actuation of Sprinkler or Fire Alarm.
5. Exit from the lift body if located in the core of the building, shall be through a self-closing smoke stop door of 1 hour fire resistance.
6. All other requirements shall conform the I.S. specification including the communication facility in the lift cars connecting with the Fire Control Room of the building.
7. Alternate source of power supply shall be provided for all lifts through manually operated change over switch.
8. Lift shall not normally communicate with the basement. If however, lifts are in communication, the lift lobby of the basement shall be pressurized as in (g) & (h) of Annex- C of N.B.C. Part – IV.
9. The Speed of the fire lift shall be such that it can reach the top floor from ground level within
One minute.

E. REFUGE AREA:

1. Refuge area not less than 15 sq. m. in area or area equivalent to 0.3 m² per person to accommodate the occupants of two consecutive floors, whichever is higher, shall be provided on the external wall with cantilever projection or other suitable means at levels of the building as shown in the drawing.
2. The refuge area shall be of Fire Resisting construction and protected with self closing F.C.D. at the entrance from the staircase half landing.
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. BASEMENT:

1. The Basement shall be adequately ventilated with aggregate cross sectional area of not less than 2.5% of the area spread evenly round the perimeter of the basement shall be provided in the form of grills.
2. Mechanical extractor for smoke venting arrangements shall be provided to the entire basement conforming the I.S. Specification. The system shall be of such design as to operate on actuation of heat/smoke sensitive detector or sprinkling. It shall also have an arrangement to start it manually.
3. The exit from the basement shall be from open Air and from any points the travel distance shall not exceeds 18.5 M to reach any exit.
4. The entire basement shall be protected with Auto Sprinkler System / Hose Reel Hose conforming to I.S. 3844-1989.
5. The staircase of basement shall be of enclosed type having Fire resistance of not less than 4 hrs. and shall be situated at the periphery of the basement to be entered at ground level only from the open air and in such position that smoke from any Fire in the basement shall not obstruct any exit having the ground & upper floor of the building.



6. In multi-storey basement, intake ducts may serve all basement level, but each basement and basement compartment shall have separated smoke out let duct or ducts.
7. Mechanical extractors shall have an alternative source of supply.
8. Mechanical extractor shall have an internal locking arrangement so that extracting shall continue to operate and supply fans shall stop automatically with the actuation of Fire Detectors.
9. Mechanical extractors shall be designed to permit 30 Air changes per hour in case of Fire or distress call.
10. If cut-outs are provided from basement, all side cut-outs openings in the basement shall be protected by sprinklers at close spacing as per N.B.C. Part- IV.

G. FIRE FIGHTING WATER:

1. Overhead Reservoir of 25,000 Liters Capacity is to be provided and will be kept full at all time on roof level.
2. Underground Water Reservoir of 75000 Liters Capacity is to be provided and will be kept full at all time as it has been proposed in plan drawing.
3. The Fire water reservoir shall have overflow arrangement with the domestic reservoir to avert stagnancy of water.
4. Provision of necessary manhole shall be made on the top of the reservoir as per specification.
5. Provision of replenishment at the rate of at least 2000 lts./min. from two separate source of water supplies shall be made.
6. The deep tube wells for the replenishment of the reservoir shall be incorporated with the auto starting facility with the actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.
7. Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

D. WATER LAYOUT SYSTEM :

a. Ring Main Hydrant System :

1. 100 mm dia Ring Main water layout arrangement along with adequate nos. of 3 way Fire Service inlet covering the entire premises of the project with provision of pillar type yard hydrants with door hose boxes, containing 2 lengths of 63mm delivery hose and short branch pipe shall be provided at all the strategic location surrounding the building along with adequate nos. Fire Service inlet to be installed conforming I. S. 3844 – 1989 (upto date amendment).
2. The system shall be so designed that shall always be kept charged with water under pressure and capable to discharge minimum 900lts. / min. at the pressure 3.5kg / sq.cm. at any point.

b. Down Comer & Hose Reels System :

1. The building shall be provided with Down Comer having provision of Landing Valves and Hose Reel unit in all staircase Landings/Half landings as per suitable at the rate of one such Down Comer and Hose Reel per 1000 sq.m. of floor area.
2. Hose Reel Unit: - Provision of hose reel units on swiveling drum in conjunction with down



3. All other requirements of the water base Fire Protection System shall be made as per I. S. Specification 3844 – 1944 (with up to date amendment).

H. SPRINKLER INSTALLATION :

1. The Automatic Sprinkler installation shall be provided in basement area of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.

F. FIRE PUMP :

Provision of the fire pump of 900 LPM discharge capacity 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 roof in connection with Overhead Water Reservoir.

One such pump shall always be kept on standby preferably be of diesel driven type.

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 satisfying the code of practice for Fire Safety in general building as laid down in the I.S. specification 1946-1982.

2. The vertical ducts shall be supply sealed at alternative floor level.

3. The electrical installation shall be adequately protected with CO₂/D.C.P. or Medium Velocity Projector System.

4. Alternative Power Supply :

Arrangements 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 etc. and also for illuminating the Staircase, Corridors etc. and other places of assembly of the building in case of normal power failure.

J. DETECTION, ALARM AND SUPPRESSION SYSTEM :

1. 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, talk back 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.

2. The suppression system shall be made with Fire Extinguishers and total flooding system with CO₂ /F.M.-200 particularly in computer and Electrical processing and data room and in a room of irreplaceable articles.

3. 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.

4. Public Address System :

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

K. FIRST AID FIRE FIGHTING SYSTEM :



I.S. 2190-1992.

L. 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. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building so that all people connected with the building shall be acquainted with their contents..
3. Floor 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 for safety of the building.
7. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
8. Close circuit T.V. shall have to be provided for the entire floor area including the basement area of the building.

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 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 valid

Digitally Signed.
Name: AMALESH BARUA
Date: 16-Sep-2025 18:16:01
Reason: D-Sign
Location: E-Dist 2.0

Divisional Fire Officer

West Bengal Fire & Emergency Services

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