

EDUCATION

GOVERNMENT OF WEST BENGAL
Office of the Director General
West Bengal Fire & Emergency Services
13-D Mirza Ghalib Street, Kolkata- 700 016

Memo No : IND/WB/FES/20172018/469

DATE: 21/09/2017

From :

The Director
Fire Prevention Wing
West Bengal Fire & Emergency Services.

To : ARNAB BHATTACHARYA

Sub : Fire Safety Recommendation for Proposed Construction of: 5 Storied Building Under Group Building at the Premises No.- 466, BARA KHOLA

This is in reference to your Application No. IND/WB/FES/20172018/469, dated 21/09/2017, regarding Fire Safety Measure for Proposed construction of 5 storied building under group building at the premises no.- 466, BARA KHOLA

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 favour of the aforesaid building subject to the compliance of the following fire safety measure.

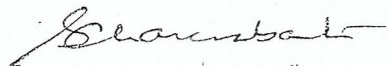
Recommendation:

1. LIFT:

1. The walls of the lift enclosure shall be at least two hours Fire Resisting type. Collapsible gate shall not be permitted.

2. FIRE FIGHTING WATER:

Overhead water reservoir of 20000 ltrs. In each building capacity exclusively for Fire Fighting purpose with replenishing arrangements @1000 lts/min. preferably from two different sources of water shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.



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3. CONSTRUCTION:

1. The whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body (Bidhannagar/Kolkata Municipal Corporation).
2. The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
3. Roof is used as a refuge area in case of an emergency and it should be clear open to sky for all time. No permanent or temporary structure will be allowed on the roof.
4. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

4. OPEN SPACE & APPROACH:

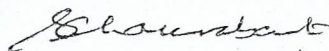
1. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
2. The width and height of the access gates into the premises shall not be less than 4.5 and 5.0 M respecting abutting the road.

5. STAIRCASE:

1. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC type having Fire Resisting Capacity not less than 4 hours.
2. The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conform the relevant building rules with up to date amendments.
3. All the staircases shall be extended up to terrace of the building and shall be negotiable to each floor without entering any occupied area.

6. HYDRANT SYSTEM :

1. Provision of standard Hose Reel Hose in conjunction with landing valve supplied from the overhead reservoir through Booster Pump of 900LPM shall have to be made in the floors of the building satisfy the code of I.S. 3844-1989.
2. The building shall be provided with Down Comer along with hose reel hose connected to terrace tank through the terrace pump at 900 LPM capacity and provided one 100 mm 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 charge with water all the time under pressure and shall not be



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less than 305 Kgs/Cm². All other requirement shall conform I.S. 3844-19889.

3. Yard Hydrant with provision of one number with one number Fire Service inlet shall be installed the building in accordance with relevant I.S. specification.

4. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R.

7. 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 specifications 1946 - 1982.

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

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

4. All electrical Sub-station shall be on the Ground Floor level and structurally to be separated from the main enclosure with the provision of entry from outside open air.

5. Alternative Power Supply:

Arrangements shall have to 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 in case of normal power failure.

8. DETECTION AND ALARM 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, 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 to I.S 2189-1988.

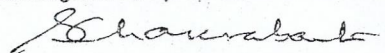
2. Hooters will be sounded in such a manner so that an operation of a Manual Call Point Hooter shall be sounded on the same floor and immediate alternate floor.

9. FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting 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. 2190-92.

10. GENERAL RECOMMENDATIONS:

1. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be



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displayed at all vulnerable places of the building.'

2. Floor numbers and directional sign of escape route shall be displayed prominently.
3. The employees and the security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.
4. 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.
5. To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained.
6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
7. 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.

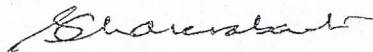
ON compliance of all the above Fire and Life Safety Recommendation, the Director General, West Bengal Fire and Emergency Services shall be approached for necessary inspection and testing of the installation, Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installations of the building.

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

Director
Fire Prevention Wing
West Bengal Fire & Emergency Services

Signature valid

Digitally signed by ABHIJIT
PANDEY
Date: 2017.09.21 15:30:47 IST



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Indian Centre For Space Physics

Resolutions of MBC Meeting



MeetingNo 543 MeetingDate 19/02/2018 Total No of Cases: 24

- MembersPresent
1. Municipal Commissioner, Chairman
 2. Director General (Building), Convener
 3. Representative of KMDA
 4. Representative of DC (Traffic), Kolkata Police
 5. Representative of WBF&ES
 6. Representative of Council of Architecture
 7. Representative of ITPI
 8. Representative of WBPCB

Dy. CE (B)
Br - XII
26/3/18
D G (BUILDING)
K M C

FE (C)
17/02/18
WBPCB
28/2/18

ItemNo 246/17-18 Br 12 Ward 109 PremisesNo 466, Bara Khola

Proposal:

This is a proposal for sanction of V storied educational building of height 15.475 meter under section 393A of the KMC Act, 1980. Area of the plot is 1659.192 Sq.M. & width of the abutting road is 12.192 meter.

Name of LBS : Debanjan Ghosh, I/1549

Name of ESE : Debanjan Ghosh, II/542

Name of Applicant : Indian Centre for Space Physics (Lessee)

Total Proposed Gross Floor Area : 2934.863 Sq.M.

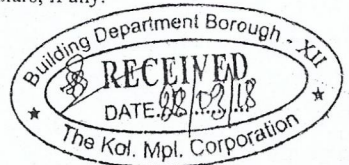
Exempted Area : 326.856 Sq.M.

NOC / Observation Submitted : WBF&ES (vide no. IND/WB/FES/201772018/469 dated 21/09/2017)

Resolution:

The plan proposal has been examined in the Building Committee in detail. Empanelled Geo-Technical Engineer and Empanelled Structural Reviewer have to be associated. Bus parking may not be insisted as it is a research center with residential facility. Infringement in travel distance is considered as it is a low height building and fire department has approved the same. The proposal, as corrected, is recommended for sanction subject to compliance of above and other departmental requisitions and compliance of departmental circulars, if any.

There is no violation of building rules, as such.



Signatures of Members

K. M. D. A.
K. M. D. A.

K. P. (TRAFFIC)
K. P. (TRAFFIC)

W.B.F. & E.S.
W.B.F. & E.S.

COA
COA

I. T. P. I.
I. T. P. I.

W.B.P.C.B.
W.B.P.C.B.

Hon'ble Mayor & MMIC(Bldg)

Above recommendation of MBC requires approval of the Mayor-in-Council in order to enable this department to process the Plan Case for sanction.

Director General (Bldg)
Director General (Bldg)

Mayor

Municipal Commissioner
Municipal Commissioner

A. Preventive measures need to be taken for pollution free environment:-

- a) Wrap construction area/buildings with geotextile fabric installing dust barriers, or other actions, as appropriate for the location,
- b) Apply water and maintain soils in a visible damp or crusted condition for temporary stabilization.
- c) Apply water prior to leveling or any other earth moving activity to keep the soil moist throughout the process;
- d) Limit vehicle speeds to 15 mph on the work site.
- e) Clean wheels and undercarriage of haul trucks prior to leaving construction site.
- f) Apply and maintain dust suppressant on haul routes.
- g) Apply a cover or screen to stockpiles and stabilize stockpiles at completion of activity by water and maintain a dust palliative to all outer surfaces of the stockpiles;
- h) Stabilize surface soils where loaders, support equipment and vehicles will operate by using water and maintain surface soils in a stabilized condition where loaders, support equipment and vehicles will operate;
- i) Stabilize adjacent disturbed soils following paving activities with immediate landscaping activity or installation of vegetative or rock cover.
- j) Maintain dust control during working hours and clean track out from paved surfaces at the end of the work shift/day. Track out must now extend 50 feet or more and must be cleaned daily, at the minimum.
- k) Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slope,
- l) Disposal of debris in consultation with the local authorities following proper environmental management practice.
- m) During construction work, including cutting of marbles, ambient noise level should not exceed more than 65 dB(A).

B. Practices to be discarded for pollution free Environment:-

- a) Don't dispose of debris indiscriminately,
- b) Don't allow the vehicles to run at high speed within the work site.
- c) Don't cut materials without proper dust control/noise control facility.
- d) Don't keep materials without effective cover.
- e) Don't allow access in the work area except workers to limit soil disturbance and prevent access by fencing, ditches, vegetation, berms or other suitable barrier.
- f) Don't leave the soil, sand and cement stack uncovered.
- g) Don't keep materials or debris on the roads or pavements.
- h) Burning of old tyres in hot mix plant as a fuel during construction and repair of the roads for melting coal tar should be discarded:

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