

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

Memo. No. : WBFES/ 1018/08 /Kol-HC/393/06/(408/06) Date : 28.05.08.

From : **Director General,
West Bengal Fire & Emergency Services.**

To : **The Managing Director,
Bengal Shelter Housing Development Limited,
BA-2, Sector-1,
Salt Lake City,
Kolkata - 700 064.**

Sub : Provisional N.O.C. for revised plan drawing of 3Nos. of HIG-Tower-B+Gr.fl+XVI, 3Nos. of MIG-Tower-B+Gr.fl+XIII, 3Nos. of LIG-Tower-G+IV, 1No. of HIG-Club-Gr.fl+I, 1No. of MIG-Club-Gr.fl+I and 1No. of Retail-Gr.fl+II storied residential Building complex at premises No.-AA/II-B/Blk/4, Action Area -II, New Town, Kolkata.


Sir,

This is in reference to your letter dated 24.01.2008 Provisional N.O.C. for revised plan drawing of 3Nos. of HIG-Tower-B+Gr.fl+XVI, 3Nos. of MIG-Tower-B+Gr.fl+XIII, 3Nos. of LIG-Tower-G+IV, 1No. of HIG-Club-Gr.fl+I, 1No. of MIG-Club-Gr.fl+I and 1No. of Retail-Gr.fl+II storied residential Building complex at premises No.-AA/II-B/Blk/4, Action Area -II, New Town, Kolkata.

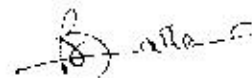
The provisional N.O.C. was issued for 3Nos. of HIG-Tower-B-Gr.fl+XIX, 3Nos. of MIG-Tower-B+Gr.fl+XII, 3Nos. of LIG-Tower-Gr.fl+IV, 1No. of HIG-Club-Gr.fl+I and 1 No. of MIG-Club-Gr.fl+I storied residential building complex vide Memo No.-WBFES/10298/06/Kol-HC/393/06(408/06) dated-07.12.2006.

After that you have submitted a revised plan drawing which has been approved by this department and recommendation issued vide Memo No.-WBFES/10298/06/Kol-HC/393/06(408/06) dated-07.12.2006 to be strictly followed and one set of revised plan drawing is issuing after rectification as prayed for

Yours faithfully,


**DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES**





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

Memo No.: WB/FES/10298/06/Kol-HC/393/06 (403/06) Dated: 07/12/2006

From: The Director
West Bengal Fire & Emergency Services

To: The Managing Director
BA-2, Sector-1
Salt Lake City
Kolkata - 700 064

Sub: Provisional N.O.C. for proposed construction of 3 Nos. of
HIG - Tower - B+G+XIX, 3 Nos. of MIG - Tower - B+G+XII,
3 Nos. of LIG - Tower - G+IV, 1 No. of HIG - Club - G+I and
1 No. of MIG - Club - G+I storied residential building
complex at premises No. AA/II-B/BLK/4, Action Area-II, New
Town, Kolkata.

Sir, This is in reference to your letter dated 13.11.2006 regarding
Provisional N.O.C. for fire safety measure for proposed construction of
3 Nos. of HIG - Tower - B+G+XIX, 3 Nos. of MIG - Tower - B+G+XII, 3 Nos.
of LIG - Tower - G+IV, 1 No. of HIG Club - G+I and 1 No. of MIG Club -
G+I storied Residential Building Complex at premises No. AA/II-B/BLK/4,
Action Area-II, New Town, Kolkata.

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 Provisional N.O.C. in favour
of the aforesaid building subject to the compliance of the following fire
measure.

R E C O M M E N D A T I O N :

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 Local Municipal Body (Bichannagar/Calcutta Municipal Corpn.).
- 2) The floor area exceeds 750 m^2 shall be suitably compartmented by
separation walls upto ceiling level having at least two hours fire
resisting capacity.
- 3) The interior finish decoration of the buildings shall be made low
flame spread materials conforming I.S. Specification.
- 4) Provision of ventilation at the crown of the central core-duct of
the building shall be provided.
- 5) Arrangement shall have to be made for sealing all the vertical
ducts 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 manoeuvrability
of fire appliance with turning facility.
- 2) The approach roads shall be sufficiently strong to withstand the
load of Fire Engine weighting upto 20 M.T.

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- 3) The width and height of the access gates into the premises shall not be less than 4.5 M and 5 M respectively 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 staircase shall be made as marked in the Plan. Corridors and the exit doors shall conforming the relevant building rules as well as rules of the Cinematograph Act with upto date amendments.
- 4) All the staircases shall be extended upto 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 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 enclosures shall be at least two hours fire resisting type. Collapsible gate shall not be permitted.
- 2) One of the lifts shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously be written at ground floor.

E. REFUGE AREA :

- 1) Refuge area is not less than 15 sq.m. shall be provided on the external wall with cantilever projection or other suitable means at above 24m, 39m & 53m. Levels of the building as shown in the drawings.
- 2) The refuge 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 area shall be such that they are negotiable by the Fire Service Ladder from the ground.

F. BASEMENT :

- 1) The Basement shall be adequately ventilated.
- 2) Additional staircase from the open air as shown in the drawing shall be constructed besides the ramps conforming relevant I.S. Specification.
- 3) The basement shall be protected with Auto Sprinkler System/Hose Reel System etc.
- 4) Mechanical extractor for smoke venting system from lower/upper basement levels shall also be provided. 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.
- 5) Mechanical extractors shall have an alternative source of supply.

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G. FIRE FIGHTING WATER :

Underground Water Reservoir having water capacity at MIG - 2,00,000 lts. MIG - 1,50,000 lts. and LIG - 50,000 lts. Capacity exclusively for Fire Fighting purpose with replenishing arrangement @ 1000 lts./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 times. Overhead Reservoir of 25,000 lts./Tower for LIG Tower.

H. HYDRANT SYSTEM :

1) The building shall be provided with Wet Riser 150 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 charged with water all the time under pressure and capable to discharge 2850 lts./min. at the ground floor level outlet and minimum 900 lts./min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 kgs/sq.cm. All other requirements shall conform I.S. 3844 - 1989. Wet Riser-cum-Down Comer of 100 mm for LIG on each tower.

2) Provision of Hose Reel in conjunction with Wet Riser shall be made at each floor level conforming the relevant I.S. Specification.

3) Provision of standard Hose Reel Hose supplied from the Overhead Reservoir through Booster Pump shall have to be made in all the floor of the building satisfy the code of I.S. 3844 - 1989 (For LIG Tower).

4) Yard Hydrant/Ring Main Hydrant with provision of four numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. Specification.

I. SPRINKLER INSTALLATION :

The automatic Sprinkler installation shall be provided in Basement and in all floor lobbies of MIG & LIG Towers as per I.S. 9972.

J. FIRE PUMP :

Provision of Fire Pumps 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 of diesel driven type.

A separate Fire Pump shall be made for the total Sprinkler installation or the building. Provision of Jockey Pump shall have also to be made to keep the water based system under pressurised condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type or in case of negative suction the system shall be Wet Riser-cum-Down Comer with suitable terrace pump fitted with overhead tank.

K. 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. 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.

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4) Alternate Power Supply :-

Arrangement shall have to be 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, 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.

L. DETECTION, ALARM AND SUPPRESSION SYSTEM :

1) Manually operated Electrical Fire Alarm System with at least two 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) Hooters 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.

3) Public Address System :-

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

M. 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 materials.

N. 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. 2190 - 1992.

O. 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.

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

4) The employees and security staff shall be conversant with Fire Fighting equipments of the building and to operate in the event of Fire and Testing.



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- 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 an 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 building.
- 8) 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.

This shall be treated as Provisional N.O.C. 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 installations 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 Provisional N.O.C. will be treated as cancelled.

Yours faithfully,

Enclo.: One set of Plan.

Director
West Bengal Fire & Emergency Services

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