

Office of the Director General of Police
 Commandant General, Home Guards &
 Director of Civil Defence and
 Director General Karnataka State Fire &
 Emergency Services
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No. GBC(1)422/2014

27-06-2016

To

The Commissioner,
 Mysore Mahanagara Palike,
 Mysore.

Sir,

Sub: Issue of Revised No Objection Certificate for the construction of
 High Rise Residential Building with 2 Blocks i.e. Block-A & B and
 a Low Rise Club House Building at Sy. No. 82/3, 4, Hootagalli
 Village, Kasaba Hobli, Mysore Taluk, Mysore - reg.

Ref: 1) This office NOC No. GBC(1) 422/2014 dated: 19-11-2014.
 2) Letter dated 20-04-2016 of Sri. N. Raja & Sri. N. Ramesh,
 GPA Holder, M/s. Foundations Developers & Promoters, No. 1/B,
 1st floor, Diya Arcade, Kantharaj Urs Road, Saraswathipuram,
 Mysore-570 009.

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In the reference, cited at (1) above, the NOC for the construction of High Rise Residential Building with 2 Blocks i.e. Block-A & B- interconnected at ground & 4th floor level, each comprising of common ground & 7 upper floors at Sy.No. 82/3, 4, Hootagalli Village, Kasaba Hobli, Mysore Taluk, Mysore was issued. Now the applicant in his letter, cited at (2) above, has informed about change the plans and requested to issue a revised NOC. Accordingly the Regional Fire Officer, Mysore Range, Mysore of this department has re-inspected the High Rise Residential Building which is under construction (6th floor is under construction) with 2 Blocks i.e. Block-A & B- interconnected at 1st & 6th floor level and a low rise Club House building at Sy. No. 82/3, 4, Hootagalli Village, Kasaba Hobli, Mysore Taluk, Mysore on 23-04-2016 with reference to the revised drawings, submitted by the applicant and has furnished the details as follows :-

A. Details of the premises.

1. Address of the premises : Sy. No. 82/3, 4,
 Hootagalli Village,
 Kasaba Hobli,
 Mysore Taluk,
 Mysore.

2. Number of Buildings	:	2
3. Number of floors	:	One Building with 2 Blocks i.e. Block-A & B- interconnected at 1 st & 6 th floor level and a low rise Club House Building.
Block-A & B	:	Each of Common ground & 8 upper floors.
Club House	:	Ground & 1 st floor.
4. Type of Occupancy	:	Residential.
5. Floor wise details of the Occupancy :-		
Block-A & B	:	
Common ground floor	:	For parking 75 Cars, 2 Garbage Collection Room, Children's Play Area, Amphi Theatre, 1 D.G. Room & 2 Electrical Rooms.
Block-A	:	
1 st floor to 8 th floor	:	10 flats on each floor x 8 floors = 80 flats.
Block-B	:	
1 st floor to 8 th floor	:	10 flats on each floor x 8 floors = 80 flats.
Total	:	160 flats.
Club House	:	
Ground floor	:	For parking 15 Cars, 1 Gym, Main Pool & Toddlers Pool.
1 st floor	:	Indoor Games.
6. Height of the Building	:	
Block-A & B	:	Each of 26.95 mtrs.
Club House	:	6.30 mtrs.
7. Site Area	:	12,401.60 Sq. mtrs.
8. Built-up area of each floor :-		
Block-A & B	:	
Ground floor	:	2,531.09 Sq. mtrs.
1 st floor	:	2,211.50 Sq. mtrs.



2 nd floor to 5 th floor (2,371.90 Sq. mtrs. on each floor x 4 floors)	: 9,487.60 Sq. mtrs.
6 th floor	: 2,487.06 Sq. mtrs.
7 th floor	: 2,371.90 Sq. mtrs.
8 th floor	: 2,371.90 Sq. mtrs.
Club House	
Ground floor	: 46.45 Sq. mtrs.
1 st floor	: 324.44 Sq. mtrs.
9. Total Built-up area	: 21,831.94 Sq. mtrs.
10. Surrounding properties:-	
East	: 24.00 mtrs. wide KIADB Road.
West	: Vacant land.
North	: Vacant land.
South	: 30.00 mtrs. wide Mysore-Hunsur Road.

B. The plan shows the following structural details indicating the fire prevention, fire fighting and evacuation measures. These measures are considered adequate as follows:-

Details (1)	Existing (2)
1. Width of the road to which the building abuts and whether it is hard surfaced to carry the weight of 45,000 kgs.	The premises is abutting 24.00 mtrs. wide KIADB Road, located on the eastern side and 30.00 mtrs. wide Mysuru-Hunsur Road, located on the southern side. Both the roads are hardened to carry the weight of 45,000 Kgs.
2. Number of entrances and width of each	Proposed to provide 2 entrances, each of 6.00 mtrs. width from 24.00 mtrs. wide KIADB Road, located on the eastern side.
3. Height clearance over the entrance	No arch or any other constructions have been proposed over the entrances.



(1)	(2)
4. Width of open space (Setbacks):-	
Block-A & B- interconnected at 1 st & 6 th floor level	
Front (East)	: 14.25 mtrs.
Rear (West)	: Minimum 10.00 mtrs.
Side (North)	: Minimum 9.82 mtrs.
Side (South)	: Minimum 10.00 mtrs.
5. Arrangement for parking the Cars	: Provision has been made to park 75 Cars at common ground floor parking area of Block-A & B and 15 Cars at ground floor parking area of Club House Building and 86 Cars on the open space available all around the Building. This open space parking shall be after leaving 6.00 mtrs. wide driveway from the Building line.
6. Number of Staircases	
Block-A & B	: 4 (2 in each block).
Club House	: One.
7. Location of the staircases	: All the staircases have been designed to abut of its side to the external wall. Further provision has been made to enclose all the staircases at each floor level.
8. Staircase size:-	
(a) Width of the staircases	: Each of 1.22 mtrs.
(b) Width of treads	: 30 Cms.
(c) Height of riser	: 15 Cms.
(d) Number of risers in a flight	: 10 risers per flight.
(e) Height of hand rails	: 1.00 mtr. As proposed, the hand rails should be provided at a height of 1.00 mtr. The gap between two verticals should not exceed 15 Cms.
(f) Head room clearance	: 2.40 mtrs.



(1)	(2)
9. Travel distance from the farthest point and from dead-end of the corridor to the staircase.	
Block-A	Maximum 24.50 mtrs. from the farthest point and maximum 6.00 mtrs. from the dead end of the corridor to the staircases.
Block-B	Maximum 22.50 mtrs. from the farthest point and maximum 8.00 mtrs. from the dead end of the corridor to the staircases.
10. Number of lifts and capacity.	
Block-A & B	4 lifts (2 in each Block), one of 10 passengers capacity & another of 15 passengers capacity in each Block.

C. While constructing the building the following fire safety measures should be incorporated:-

Details (1)	Existing (2)	Recommendation (3)
1. Condition of the open space.	---	Out of the required and allowed setbacks of minimum 9.00 mtrs. all around the Building, the setbacks to an extent of 6.00 mtrs. from the Building line should have a RCC slab of 200 mm thickness to carry the load of 45,000 kgs., being the weight of a fire unit. This driveway all around the building, should always be kept free and clear. It would be advantageous to the builders and the users to elevate this portion by a few inches and even provide for a different colour, so that people are aware that this is the emergency route for fire fighting vehicles, ambulances etc. The total setbacks shall be at even level without any structure and projections up to a height of 5.50 mtrs. These setbacks shall be always kept free from any construction or utilization like garden, landscaping parking etc.



(1)	(2)	(3)
2. Structural materials.	---	RCC materials and brick walls of not less than two hours fire resistance should be used for the construction of structures. Only fire resistant materials or materials treated with fire retardant chemicals, should be used for interior decoration work. While attending the interior decoration the fixed fire fighting systems like sprinklers/risers etc., should not be covered or shifted from their original location.
3. Design of the staircases.	Not indicated	All the staircases should be constructed with non combustible materials and should be completely enclosed at each landing to prevent smoke and fire traveling from the lower floors to the upper floors. Enclosures to staircases should be provided with self-closing smoke-stopping swing-door, fitted with door closing devices at the exit to the lobby. These doors should have at least two hours fire resistance capacity. The staircase area should be without glazing or glass brick walls to avoid reflections. Any area of dwelling or storage should not open directly to the staircase.
4. Specification of lift.	Not indicated	The brick walls, enclosing the lift shafts, should be of 90 mm thickness and have a fire resistance of not less than two hours. Shaft should have permanent vent of not less than 0.2 sq.mtrs. clear area, immediately under the machine room. Lift motor rooms should be preferably located at the top of the shaft and separated by the enclosing wall of shaft or by the floor of the machine room. Landing doors of lift enclosures should open into a ventilated lobby having one hour fire resistance. Lift car doors should be of metal finish, operating automatically and should have fire resistance capacity of one hour. Exit from the lift lobby should be through a self closing smoke stopping door of 15 mm thickness, having one hour fire resistance capacity. This is to prevent smoke and fire traveling from the lower floors to the upper floors. The lift machine rooms should be separate and no other machinery should be installed therein. Each lift should be connected to an alternative source of power (generator). Grounding switches at the



(1)	(2)	(3)
5. Service ducts/shafts.	---	ground floor level to enable the Fire & Emergency Services personnel to ground all the lift cars and use them as 'FIRE LIFT' in an emergency should be provided. Service ducts should be enclosed by walls of 100 mm. thickness to have at least two hrs fire resistance capacity. A vent, opening at the top of the service shafts, should be provided between one fourth and half of the area of the shafts. The electrical distribution cables and wiring should be laid in a separate duct. All the ducts should be sealed at every alternate floor with non-combustible metal doors having at least two hours fire resistance capacity. Water mains, telephone lines, intercom lines or any other service lines should not be laid in the duct, meant for electric cables. The inspection panel doors and any other opening to the shafts should be provided with airtight doors of at least two hours fire resistance capacity.
6. Escape route.	Not indicated	Direction in which the inmates should have to move in the event of any emergency have to be indicated in the corridor/passage on each floor as a guide during evacuation. These marking should be in luminous paint.

D. The builder should arrange for the following fire fighting and evacuation measures:-

Details (1)	Existing (2)	Recommendation (3)
1. Electric power supply.	---	Circuits for water pumps, lifts, staircase lighting in the building should be by separate line and independently connected so that they can be operated by one switch installed the ground floor. Dual operated switches should be installed in the service room for terminating the standby supply.



(1)	(2)	(3)
		As proposed one standby generator of 160 KVA capacity shall be installed at common ground floor to supply alternative power for staircase lighting, corridor lighting, fire fighting systems, lifts etc., in the event of failure of electricity supply, in the buildings.
2. Wet riser-cum-down comer	Proposed to provide 5 down comer systems (2 in each Block one in Club House).	As proposed 5 down comer systems (2 in each Block & one in Club House) staircases, shall be provided. Each down comer should be of 100 mm internal diameter and of G.I. 'C' Class pipe. & From each down comer single hydrant outlets should be provided at each landing. Hose reel hose of minimum 19 mm size of adequate length to reach the farthest point of each floor should be provided with a shut off branch having a nozzle of 5 mm size. The hose reel hose should be connected at each landing by means of an adaptor. Adequate B.I.S. marked reinforced rubber lined delivery hoses of 63 mm size to reach the farthest point of the floor/setbacks from the system should be provided with a branch pipe near each hydrant outlet (both internal and external) in a proper box to protect it from withering. At least two fire service inlets to boost the water in the riser directly from the mobile pump should also be provided. These inlets should be located at an easily accessible position, preferably near the entry point to the premises. Each down comer system should be connected to an RCC overhead tank of 25,000 litres capacity with an electrically driven pump, capable of delivering 900 litres of water per minute (total 5 overhead tanks & 5 booster pumps). The impeller of the pumps should be made of bronze.
3. Manually operated fire alarm system	Proposed to provide manually operated electrical fire alarm system with call boxes near each staircase landing.	Manually operated electrical fire alarm system should be installed with call boxes located near each staircase landing of the Building. The call boxes should be of 'break glass' type, where the call is transmitted automatically to the control room when the glass of the system is broken. This staircase landing system should also be connected to an alternative



(1)	(2)	(3)
		source of power supply (diesel generator). The call boxes should be so installed that their location can be easily noticed from either direction and should be at a height of one meter from the floor level.
4. Automatic fire detection system.	Proposed to provide automatic fire detection with 03 smoke detector heads at ground floor & 03 smoke detector heads at 1 st floor of Club House.	As proposed automatic smoke detection system shall be provided with its console at ground floor level.
5. Automatic sprinkler system.	Proposed to provide automatic sprinkler system with 169 sprinkler heads at common ground floor parking area of Block-A & B and 23 sprinkler heads at ground floor & 06 sprinkler heads at 1 st floor of Club House.	Adequate. The sprinkler system should be connected to down comer systems. For the requirement the capacity of overhead tanks shall be increased from 25,000 litres to 30,000 litres.
6. Public address system.	Proposed to provide public address system with two way communication facility.	As proposed a public address system with two way communication facility should be provided at each floor near each staircase landing with its console at the control room, located on the ground floor.
7. Assembly Area	Not marked.	An area at an appropriate place in the allowed/required setbacks shall be earmarked with a proper board as 'ASSEMBLY AREA' for the occupants to assemble after evacuation during practice drill and in an emergency.



(1)	(2)	(3)
8. Portable fire extinguishers.	Proposed to provide suitable type of portable fire extinguishers as per the requirements.	a) One ABC Powder extinguisher of 6 kgs. capacity for every 8 Cars at ground floor parking area & also on the open space parking area under shelter. b) One ABC extinguisher of 2 kgs. capacity should be provided near the entrance to each main switch board room, inside each lift machine room and inside each kitchen. c) One ABC Powder extinguisher of 6 kgs. capacity should be provided near the transformer, if installed and near the entrance to the D.G. Room. d) One ABC Powder extinguisher of 6 liters capacity should be kept near each staircase landing on every floor of each Block. e) All the extinguishers suggested above should be with B.I.S. markings and should be located at an easily accessible position without obstructing the normal passage.
9. Fire safety plan.	—	A Fire safety plan for preventing and extinguishing any accidental fire in the Building and action to be taken by the occupants in case of such fire should be prepared in advance and got approved by the Director, Karnataka Fire & Emergency Services. The fire safety plan, so approved, should contain the telephone numbers of the nearest Fire Control i.e., 101 and 0821-2512101 of Mysore Fire Station. The plan should be distributed to all the occupants and employees in the building and should be displayed on every floor. A Fire Command Station should be established in the lobby of the Building on the entrance floor and such command station should be adequately illuminated. The main control of the public address system and fire alarm system should be at the Fire Command Station.



(1)	(2)	(3)
		A Fire Safety Director should be nominated for the Building. He should conduct fire and evacuation drills periodically. He should nominate a Fire Warden for each floor and ensure that no individual of the building does anything which causes or stimulates an accidental fire and in case of lapses in respect of fire prevention measures, he should take action as deemed fit to ensure the safety from the fire point of view. If the action is beyond his capacity he should inform the Fire & Emergency Services department.
10. Training	Not indicated	40% of the occupant/employees should be got trained in fire prevention & fire fighting at the R.A. Mundkur Fire & Emergency Services Academy, Bannerghatta Road, Bangalore - 560 029 within 6 months from the date of occupation of the building. For this purpose, before approaching this department for final clearance certificate, the applicant should give an undertaking in the form of an affidavit regarding the maintenance of the fire prevention and fire fighting measures suggested above and arranging training of 40% of the occupants in fire prevention and fire fighting within 6 months from the date of issue of the clearance certificate.

E. General:-

- 1) All the fire prevention, fire fighting and evacuation measures suggested / recommended in B, C & D shall be strictly adhered to adopted.
- 2) Hazardous materials such as petroleum products, explosives, chemicals etc. should not be stored on any floor of the building.
- 3) Refuse dumps or storage should not be permitted in any of the floors.
- 4) Liquefied petroleum gas should not be stored in the building.
- 5) Plan & occupancy should not be changed without informing the Fire & Emergency Services and without taking clearance.
- 6) The occupancy certificates should not be issued without obtaining the clearance certificate from the Fire & Emergency Services department.



- 7) Such reasonable changes/modifications as may be found necessary, after the building is fully constructed, will have to be agreed to be done by the builder/occupants of the building.
- 8) All the metal fittings of wet riser system and all the extinguishers suggested above should have B.I.S markings.
- 9) Apart from the above the Building shall be constructed by following all the rules & conditions stipulated in Part-III & IV of NBC & local zoning regulations strictly, failing which the NOC issued will not be valid.
- 10) The NOC is issued from the Fire Prevention and Fire Fighting point of view. Karnataka State Fire & Emergency Services Department will not endorse the ownership of the premises and not responsible for any disputes which may arise in due course.

Subject to the strict adherence to the conditions laid down as above, issue of license for the construction of High Rise Residential Building with with 2 Blocks i.e. Block-A & B- interconnected at 1st & 6th floor level and a low rise Club House Building at Sy. No. 82/3, 4, Hootagalli Village, Kasaba Hobli, Mysore Taluk, Mysore may please be considered. The Revised N.O.C. issued on 19-11-2014 may please be treated as cancelled.



Yours faithfully,

Director General of Police
and Director General,
Karnataka Fire & Emergency Services.

Copy to

- 1) Sri. N. Raja & Sri. N. Ramesh, Power of Autonomy Holder, M/s. Foundations Developers & Promoters, No. 1/B, 1st floor, Diya Arcade, Kantharaj Urs Road, Saraswathipuram, Mysore-570 009.
- 2) The Regional Fire Officer, Mysore Range, Mysore.