

Note:- i) Architects & Owner/builder are requested to read Following Requirements / terms and conditions carefully.

ii) If any of the Following requirements are not fulfilled or completed during construction, Final NOC from this department will not be issued.

## NASHIK MUNICIPAL CORPORATION FIRE & EMERGENCY SERVICE DEPARTMENT

Office of the Chief Fire Officer  
NMC / FIRE / WS / H / 87 / 2012  
DATE: 15 / 06 / 2012

To,

M/s Nandan Buildcon Pvt. Ltd;

Thro' Shri Shamkant J. Kotkar & others,

C/o Shri Ravi Amrutkar, Engineer, Nashik

Sub: Requirements under Maharashtra Fire Prevention & Life safety Measures Act, 2006 for construction of High Rise Building (Residential) in P.No. --, S. No. 39 to 49, Adgaon shiwar, Nashik.

Ref:

1. Scrutiny Report dated 01 / 06 / 2012 from Town Planning Deptt. Nashik Mun. Corp.
2. Urban Development Department, Govt. of Maharashtra resolution no TPS-1109/3247/CR-103/10/UD-9 dated 21/09/2010
3. Fire Prevention Fund Rs. 10, 05,406 /-- (Fire Fund Rs. 9, 66,736/- + Inspection Fee Rs. 38,670/-) Paid wide Book No. 5876, Pass No. 47, Dt 15 / 06 / 2012

M/s Nandan Buildcon Pvt. Ltd; Thro' Shri Shamkant J. Kotkar & others, Nashik has decided to construct a High Rise Residential Buildings (overall height of building upto 40 mtrs.) in P.No. - S. No. 39 to 49, Adgaon shiwar Nashik. and submitted municipal drawings after scrutiny from Town Planning deptt. to this office through Shri Ravi Amrutkar, Engineer

The details of the building is as follows,

The building complex abuts on 60.0 meter, 18.0 meter & 12.0 meter wide roads.

### BUILDING DETAILS

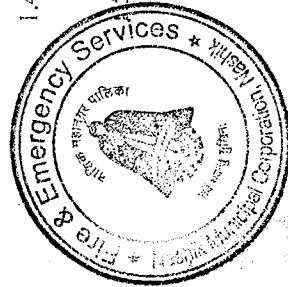
Area of construction: Resi. : - 17240.0 sq. mtr. + stilt + stair+ cupboards +balconies etc.  
Height of Building: 36.70 meters (Overall height of building should not exceed 40.0 mtrs)  
Type of occupancy: Residential  
Number of floors: Ground/ stilt (Parking) + 12 floors Residential ( A & C buildings)  
No. of staircases required: As per DC Rule No. 17.3.4, min. 2 (Two) nos per wing

### SPECIAL REQUIREMENTS:-

As the proposed height of the buildings are more than 15 meter i.e. the buildings are High Rise buildings, Fire protection rules and regulations as specified in National Building code of India-2005- Part IV, (Fire and Life Safety) and Maharashtra Fire Prevention & Life safety Measures Act, 2006 become applicable as below,

#### I. ACCESS & TURNING CIRCLE FOR FIRE BRIGADE APPLIANCES:

- 1.1 All entrances & exit gates for the complex shall be min.of 4.5-meter width and height.
- 1.2 The width of the internal road /Pathway shall not be less than 12.0 meters for easy movement of Fire Brigade appliances.
- 1.3 Courtyard / Podium Slab of the complex shall be capable of taking the weight of Fire Appliances weighing nearly 45tones.
- 1.4 The open spaces on its all side shall be of 10.00 meter width and shall be kept free of obstructions and shall be motorable for movement of Fire appliances.
- 1.5 Distance between two buildings shall not be less than 12.00 meters.



## 2. STAIRCASES:

- 2.1 The maximum travel distance should be as per D.C Rule No. 17.3.1 or as per NBC Rule.(Max. 22.5 Meter)
- 2.2 **Minimum two staircases are necessary for each wing As per DC Rule No. 17.3.4 & NBC-2005 Part-IV clause no 4.6.2 out of which one shall be on the external wall of the building and one shall be in the form of FIRE-TOWER i.e. enclosed type staircase.**
- 2.3 Width of any staircase shall not be less than 1.2 meters.
- 2.4 Permanent ventilation at the top of staircase shaft shall be provided and is shall be not less than 5 % of the cross sectional area of the staircase.
- 2.5 Gas pipeline, Air condition ducts, Electrical Ducts etc shall not be passed through staircase enclosure.
- 2.6 Staircase on external walls of the buildings shall directly open to exterior or interior open space or to an open space of safety.
- 2.7 The staircases shall be lighted and ventilated and the minimum size of opening on walls abutting to open space shall be minimum 0.5 sq. meters per landing.
- 2.8 No living space, store or other Fire risk shall open directly into the staircase.
- 2.9 Minimum headroom under the landing of the staircase shall be 2.2 Mt.
- 2.10 Access to staircase shall be through a fire / smoke door of minimum 2 hours Fire Resistance rating.
- 2.11 No combustible material shall be used for deduction / wall paneling in staircase.

## 3. ESCAPE ROUTES (CORRIDOR & LOBBIES):

- 3.1 **Width of any Escape route/ corridor shall not be less than 1.2 meters.**
- 3.2 The corridors and lobbies on each floor landings shall be ventilated directly to open air.
- 3.3 Smoke stop doors in adequate quantity shall be provided across the corridors considering the travel distances.
- 3.4 All exists and escape routes shall be free from obstructions. No flammable material shall be stored in the corridors, lobbies or staircase landings.

## 4. FIRE LIFT: ( Minimum one lift to be provided compulsorily)

- 4.1 All the floors shall be accessible for 24 hours by the lifts.
- 4.2 The lift shaft shall not be surrounded by staircase.
- 4.3 Collapsible gates shall not be permitted for lifts, and shall be solid doors with fire resistance of not less than 1 hour.
- 4.4 The lift shall conform to the provision in National Building Code - Part IV Annex'C'.
- 4.6 **The lift shall have a floor area of not less than 1.4 sq. meters and loading capacity of not less than 545 kg (3 persons) with automatic closing doors of 0.8 meter width.**
- 4.7 **The operation of the Fire lift shall be by simple toggle switch or two button switch situated in a glass fronted box adjacent to the lift at the entrance level. When the switch is on, landing call points become inoperative and the lift will be on car control, when the switch is off, the lift will return to normal working. The lift can be used by the occupants in normal times.**
- 4.8 The electric supply for fire lift shall be on a separate service from electric supply mains in the building and the cables run in a route safe from fire i.e. within the lift shaft.
- 4.9 In case of failure of electric supply, it shall automatically switch over to alternate supply.
- 4.10 The words "FIRE LIFT" shall be conspicuously displayed in Fluorescent paint on the lift landing doors at each floor level.
- 4.11 The fire lift should be provided with a ceiling hatch for use in case of emergency, so than when car gets stuck up, it shall be easily openable.
- 4.12 The speed of the Fire Lift shall be such that it can reach the top floor from ground level within 1 minute.

## 5. SERVICE DUCT / SHAFT:

- 5.1 **Service Ducts and shaft shall be compulsorily provided for Electric cables, garbage chutes, Fire Fighting etc and shall be enclosed by walls of 2 Hours and doors of 1 Hours Fire resistance rating.**

- 5.2. All such ducts / shafts shall be properly sealed and fire stopped at all floor levels.
- 5.3. A vent opening at the top of the service shaft shall be provided having area between one fourth and one half of the area of the shaft.

**6. REFUGE FLOOR:-**

According to Govt. Resolution under ref. no. 3, refuge floor shall be provided at 24.00 M height (in between height of 24.00 M to 27.00 M) and the height of refuge floor shall be 2.40 mtr.

**7. ELECTRICAL SERVICES:**

- 7.1 The electric distribution cables / wiring shall be laid in separate duct. The duct must be sealed at every floor with non-combustible material having the same fire resistance rating as that of the duct.
- 7.2 Medium and low voltage wiring running in shaft & false ceiling shall run in separate conduits.
- 7.3 Water mains, telephone lines, gas pipes or any other service lines shall not be laid in the duct for electrical cables.
- 7.4 Separate circuits for fire fighting pumps, lifts, staircase and corridors lighting and blowers for pressurizing system shall be provided directly from the main switch gear panel and these circuits shall be laid in separate conduit pipes, so that one circuit will not affect the other.
- 7.5 Suitable circuit breakers shall be provided at appropriate points.
- 7.6 No other storage except electrical meters and panel board shall be allowed in electric control room.
- 8. LPG SUPPLY PIPES:**
- 8.1 If LP Gas pipes run in building, the same shall be run in separate shafts exclusively for this purpose and these shall be on external walls, away from the staircases.
- 8.2 The LPG distribution system shall conform to NBC - part IV (Clause C-1.13) and IS : 6044 Part I.
- 8.3 Separate NOC shall be procured from Fire Brigade Department for LP Gas system.

**9. ILLUMINATION OF MEANS OF ESCAPE:**

- 9.1 The staircase and corridors lighting shall be on separate circuits and shall be independently connected so as it could be operated by one switch installation on ground floor easily accessible to Fire Fighting staff at any time, irrespective of the position of the individual control of the light points if any. It should be of miniature circuit breaker type of switch so as to avoid replacement of fuse in case of crises.
- 9.2 Staircase and corridors lighting shall also be connected to alternate supply.
- 9.3 Emergency lights shall be provided in the staircase and corridor.
- 9.4 All wires and other accessories used for emergency light shall have fire retardant property.

**10 ALTERNATE SOURCE OF POWER SUPPLY ( Compulsory ):**

A stand by electric generator of sufficient capacity shall be installed to supply power to staircase and corridor lighting circuits, fire lift, the stand by fire pump, pressurization fans & blowers smoke extraction and damper system in case of failure of electric supply.

**11 LIGHTNING PROTECTION OF BUILDING:**

The lightning protection for building shall be provided as given in Part - 8 Building Services section - 2 Electrical Installation of NB Code. 2005.

**12 FIRE PROTECTION SYSTEM:**

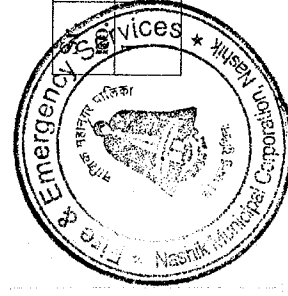
As per National Building code-2005, Part-IV & Maharashtra Fire Prevention & Life safety Measures Act, 2006 the following fire protection system will have to be installed for the safety of the building.

**12.1 Requirement & Provision: -**

Fire fighting and fire protection system as given on next page shall be installed in the building.

**Fire Protection Required**

Protection	Requirements	Provision	Remarks
Portable Fire Extinguishers	Required	IS: 2190	On each floor & in Lift machine room



2.	Hose Reel	Required	IS: 884 : 1985	On each floor
3.	Down Corner	Required		
4.	Yard Hydrant	Required	IS:3844:1989 & IS 13039:1991	
5.	Automatic Fire Detection & Alarm system.	Required	IS:2189:1999	Alongwith MOEFA System
6.	Automatic Sprinkler system.			For Entire Building
7.	Underground Water tank for Fire Fighting	Required 50,000 ltrs.		Separate from Domestic Water Tank For each building
8.	Terrace tank	Required 10,000 ltrs.		Separate from Domestic Water Tank
9.	Fire Pump	1200 ipm elect. Driven: - 2 no. 1200 ipm Diesel driven: - 1no. 180 ipm elect. driven: - 1no.		1200 ipm @75mtr. Head -- centrifugal pump For each building
10.	Fire Brigade Connection for static water tank & for hydrant system.	Required	Near main entry gate.	At ground floor, @ 1.0 mtr above CL

**12.2 Approval of Drawings of Fire Protection System:**

Detailed drawings of Hydrant system, detection system etc will be submitted for the approval of Fire Brigade department before starting of actual work

**13 GENERAL CONDITIONS:**

13.1 No flammable / explosive material shall be stored in the premises before prior permission from the concern department including Fire Brigade.

13.2 All fire fighting equipments shall be as per IS specifications bearing I.S.I. mark

13.3 Fire Fighting systems shall be painted with PO red color.

13.4 Sign board such as 'No Smoking', 'Exit', 'Emergency Exit', 'Emergency Phone Nos.', 'First Aid Box' etc shall be provided at prominent places. They shall be painted in Marathi, Hindi and English with reflective / glow paint only.

13.5 Floor Nos. shall be clearly demarked on every floor in staircase lobby as well as in lift well.

13.6 Fire protection work will be carried out by Licensed Agency approved by C.F.O. Fire Brigade N.M.C. Nashik as per provision in Maharashtra Fire Prevention & Life safety Measures Act, 2006 .

13.7 While providing all fire and life safety provisions, the National Building code of India 2005 - Part IV & Maharashtra Fire Prevention & Life safety Measures Act, 2006 will be strictly followed.

~~13.8 Detailed drawings of this project to be submitted to the Fire & Life Safety Department, Nashik Municipal Corporation, Nashik.~~

13.9 This provisional certificate shall be treated valid for the period of one year from the date of issue.

13.10 The undersigned reserves right to amend any additional recommendations deemed fit during final inspection due to statutory provisions amended from time to time and in the interest of the protection of life & property.

*Amalchandra Jay*  
15/6/12  
CHIEF FIRE OFFICER

Nashik Municipal Corporation.

Copy to ;

A.D.T.P / Executive Engineer (Town Planning Dept)

Nashik Municipal Corporation.

Please issue the commencement certificate after fulfilling the above requirements in view of Fire & Life safety.

*Amalchandra Jay*  
15/6/12  
CHIEF FIRE OFFICER

Nashik Municipal Corporation

