

Application for Provisional No Objection Certificate (with enclosures)

(Under section- 2 (g) of Bihar Fire Service Act, 2014, under rule-15 (f)(i) of Bihar Fire Service Rules, 2021)

Ref no.-

Date.....

From,

.....

.....

To,

The Director,
State Fire Service,
Bihar, Patna.

Sub:- For Provisional fire prevention and fire safety no objection certificate for building construction.

Sir,

I/We am/are proposing for building construction which shall be started only after clearance from concerned Authorities. As per requirement of Bihar Fire Service Act, 2014, Bihar Fire Service Rules, 2021, Bihar Building Bylaws 2014 **as amended from time to time**, National Building code, 2016 **as amended from time to time**, I / we require fire prevention & fire safety no objection certificate. I / We swear to abide by all the provisions of fire prevention and fire safety measures provided in all concerned Acts and Rules and follow the guidelines given as per local requirements.

I/ We request for Provisional Fire prevention and fire safety no objection certificate for proposed construction of building as per following details-

1. Details of Plot marked for proposed building construction:-

(a) Area (in sq. meter)-

(b) Name of mauza/Ward No-

(c) MS/CS/Plot No.-

(d) Khata No./Sheet No-

(e) Tauji No./Circle No.-

(f) Thana No./Mohalla-

2. Name of concerned Police Station/District-

3. Name of concerned Fire Station-

4. Route details to approach on the proposed construction site-

5. Nearest source of water with distance (river/lake/pond/well/municipal water source/public-private water hydrants).

6. Designation and Address of Licensing Authority issuing building permit to whom NOC has to be sent-

7. Name and Address of Land Owner (property-own/rented/leased)

8. Name and Address of Architect with contact No./fax/e-mail id etc.-

9. Name and Address of Builder with contact No./fax/e-mail id etc.-

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Signature

Enclosure with application

A. Building Plan--

1. Two Sets of building plan (Not less than 1:200 scale) signed by a qualified Civil or Structural Engineer, an Architect and the Owner/Builder, showing abutting Street, dead end, occupancy of all parts/ floors, air-conditioner and dampers, stair cases, corridors, lifts, ramps.
2. 2 sets of Site plan duly marked open places on all sides.
3. 2 sets of Floor wise plans including Basements/ Stilts duly marked fire safety systems
4. 2 sets of Terrace plans
5. 2 sets of Section plans of two sides.
6. 2 sets of Elevation plans of two sides.
7. Two section drawings, through stairs (NBC-Part 2-12.2.5.1.b/c)
8. Bank draft of Fixed charges for NOC.

B. Checklist -

9. Neatly typed check list without any corrections and interpolations.

C. Undertakings-

10. Affidavit /Undertaking regarding followings-
 - (a) Compliance of instructions as per provisional NOC.
 - (b) Information regarding commencement of work.
 - (c) Submission of periodical progress report.
 - (d) Submission of completion certificate of construction in all respect.
 - (e) Receiving of final NOC for taking occupancy certificate.
 - (f) Maintenance of fire fighting equipments.
 - (g) Training of staff& occupants to carry out regular mock drill.
 - (h) Calling for periodical fire audit.
 - (i) Submission of estimates towards the provision of fire safety systems and 15% of the estimate of Fire Safety System as Bank Guarantee.
 - (j) Compliance of National Building Code of India, 2016 **as amended from time to time**, Bihar Building Byelaws, 2014 **as amended from time to time**, Bihar Fire Service Act, 2014, Bihar Fire Service Rules, 2021, Bihar Municipality Act, 2007 and all applicable Building Laws/ Rules/ Regulations/Guidelines as per local situations.

CHECK LIST RELATED TO BUILDING PLAN**(For provisional NOC/Final NOC)**

(Under section- 2 (g) of Bihar Fire Service Act, 2014, under rule-15 (f)(i) of Bihar Fire Service Rules, 2021)

Abbreviation-National Building Code of India, 2005 Part-4(NBC-p-4)/National Building Code of India, 2016 **as amended from time to time** Part-4(NBC-P-4)/Bihar Building Byelaws, 2014(BL) **as amended from time to time**, Provisions in National Building Code of India, 2016 **as amended from time to time** will prevail over National Building Code of India, 2005, which has been referred only for guidelines.

1	Type of proposed building occupancy -						Proposed / complete/ N.A.
2	Type of Sub- Occupancy -						
3	Name of Proposed Building-						
4	Height of proposed building from ground level Ref- NBC-P-4-3.4.4 /Table-7					(in meters)	
5	Height of Construction in surroundings of proposed site (The minimum distance between two buildings will not be less than 1/3 of the height of the taller building or 18 meter whichever is lower(BL-7).					Direction	Meters
						North	
						South	
						East	
						West	
6	Distance of building from Electric Lines (BL-31)					Vertical	Meters
						Horizontal	Meters
7	Covered area of proposed building						Sq. meters
	Total built- up area of all floors including basements and stilts (in sq meters)						sq. meter
8	A Number of floors-						
	B Number of Basements-						
	C Number of Stilts/Ground Floor						
	D Number of Blocks-						
	E Average Occupant load per floor						
	F	Floor	Area in Sq. Meters.	Classification of occupancy	No. of Occupants as declared by the Builder	No. of Occupants based on Table of NBC i.e., floor area divided by occupant load	Total Aggregate width of Stair case in Meters. (as declared by the Builder)
		Basement-1					
		Basement-2					
		Stilt-1					
		G Floor					
		Stilt-2					
		Floor-1					
		Floor-2					
		Floor-3					
		Floor-4					
		Others					
9	Means of Access						
	A	Building abutting to road- Number of Roads,the premises is abutting..					
	B	Abutting Street (Name and width) :			Abutting Street Name-		

		(The Abutting Road width should be minimum 12 ft/20 ft.—BL-33, 34. (nbc-p-3-4.6.a;4.8/ p-4-7.4.1.a)	Abutting Street 1 (Width in meters)			
			Abutting Street 2 (Width in meters)			
	C	Whether it is hard surfaced and motorable :				
	D	Whether terminating in dead end (nbc-p-3-4.7;/ p-4-3.4.6)				
10	A	Access /Open space and set back front and other 3 sides of the Block: (BL-35,36,37)(nbc-p-3-4.6:4.2.4.6 8.2.3.1:8.4.1:9.4.1.a/p-4-3.4.6:5.1.6:7.4.1)	Side	Meters		
			North			
			South			
			East			
			West			
			Front side direction	East/West/North/South		
	B	Motorable access to and around building and turning radius at buildingCorners. (nbc-p-2-12.2.5.1.a / p-3-4.6/7)				
C	Approach to building. and6 metersaccess space on all sides shall be hard surfaced for movement of 45 ton fire vehicles. This space of 6 meters for access shall be maintained free of parking and kept free of any obstructions, structures or fixtures up to height of 4.5 meters above which 1.25 meters. Unenclosed balconies are allowed.					
D	If water tank or bridge, has roof and it is in access route then the roof should withstand a load of 45 ton fire vehicle. (nbc-p-4-5.1.6)					
E	The open space around a building shall be in accordance with building height. It shall be kept in mind that maneuvering of fire vehicle for fire fighting and rescue is ensured.					
F	Minimum driveway for movement of fire tenders and aerial ladders around the building shall be available :					
G	The compulsory open spaces around the building shall not be used as parking space.					
H	In order to ensure easy entry and exit of fire vehicles the main entrance and exit gate shall be minimum 4.5 meters width and 5 meters height. There shall be no obstruction of required height clearance (5 meters.) all along the driveway. This is the minimum height needed for free movement of large fire tenders, and especially the large aerial ladders.					
11	Car parking : (nbc-p-2-12.2.51.g/ p-3-10/Appendix .B)	Details	No. of Cars			
		Basement				
		Stilt				
		Ground floor				
12	Projections into open space:-	direction	Meters			
		Front				
		Side 1				
		Side 2				
		Rear				
13	Entrances/Exit- (nbc-p-3-4.6)					
	A	Number of entry doors				
		Number of exit doors				
	B	Entrance/Exit details –		Entrance Abutting	Road side width in meters.	
				Entrance 1		
				Entrance 2		
	C	Head room clearance.....		meters.		
14	STAIRCASES :					
	A	No. of Internal staircase		(Minimum 1)		
	B	No. of External staircase		(Minimum 1)		

Internal Staircase (NBC-P-4-4.4.2.4.3.1/ 4.4.2.4.3.2 / 4.4.2.4.3.3)						
A	No. and width of internal staircases (nbc-p-4-4.9.6)	No. of Staircase	Location		Width of Staircase Inmeters.	
			From floor no.	To floor no.		
		1				
		2				
		3				
		Others				
B	Width of the Treads (nbc-p-4-4.9.7)				cm	
C	Height of the riser (nbc-p-4-4.9.8)				cm	
D	Number of riser (nbc-p-4-4.9.9)				per flight	
E	Height of the hand rails (Hand rails at 100 cm height)(nbc-p-4-4.9.9)				meter.	
F	Gap between two verticals...				cm	
G	Head room clearance ...				meter.	
H	Construction should be with non-combustibles materials (NBC- p-4-4.9.1)					
I	There shall be a self contained unit along with at least one external wall and should be completely enclosed. (NBC- p-4-4.9.2)					
J	It shall not be around lift (NBC- p-4-4.9.3)					
K	It shall be so designed that the number. of people in between floor landings, is not less than those on each floor. (NBC- p-4-4.9.10)					
L	No electrical panels/ AC ducts or gas pipes shall be allowed in staircase(NBC- p-4-4.9.4/10f)					
M	Access to stairs shall be through two hours. rated fire/ smoke door (NBC- p-4-4.9.10b)					
N	Travel distance					
	1	Distance from the farthest point ...			meter.	
	2	Distance from the turning dead-end of the corridor to the staircase.....			meter.	
External staircase (NBC-P-4-4.4.2.4.4.3)						
A	No. and width of staircase (minimum one)	No. of staircases	Location		Width of staircase in meters.	
			From floor no.	To floor no.		
		1				
		2				
		3				
		Others				
B	Width of the Treads				cm	
C	Height of the riser				cm	
D	Number of riser ...				per flight	
E	Height of the hand rails ...				meter.	
F	The gap between two verticals...				cm	
G	Head room clearance ...				meter.	
H	It shall terminate at Ground/ Stilt floor only. It should not extend to the basement. It shall have remote and separate gate entrance from the internal staircase.					
I	Pressurization of staircase : (NBC-P-4-4.2.5)					
	The pressurization of staircases shall be adopted for high rise buildings and building having mixed occupancy / multiplexes having covered area more than 500 m².					

15	Exit Doorways : (NBC-P-4-4.2.4.1)			
	Every exit doorway having width as per occupancy class requirements shall open into an enclosed stairway or a corridor or a horizontal exit for transit or providing continuous and protected means of egress.			
16	Ramps : (NBC-P-4-4.4.2.4.3.5) (NBC- p-4-4.14/ p-3-10)			
	A	Number of Ramps-		
	B	Width	Ramps	Width of ramp in meters.
			Ramp 1	
			Ramp 2	
	C	Steep should not be more than 1 in 10 and in no case 1 in 8. Surface to be skid proof		
17	Lift- (NBC-P-8-7.1. to 7.2.4/ NBC-P-2-Annexure-E) (NBC- p-4-Annax-C-1.5)			
	A	No. of passenger lift and capacity	No.	Capacity(kg)
			1	
			2	
			Others	
	B	No. of service lift and capacity	No.	Capacity(kg)
			1	
			2	
			Others	
	C	Lift motor room shall be located preferably on top of the shaft and separate from the shaft by the floor of the room. However, for M.R.L. Lifts, this is not applicable.		
	D	Landing doors in lift enclosures shall have a fire resistance of not less than 1 hour.		
	E	The number of lifts in one row for a lift bank shall not exceed 4 and the total number of lifts in the bank (of two rows) shall not exceed 8. A wall of 2 hour fire resistance shall separate individual shaft in a bank.		
	F	Lift car door shall have a fire resistance rating of half an hour.		
	G	Collapsible gates shall not be permitted for lifts and shall have solid lift doors with fire resistance of at least 1 hour.		
	H	If the lift shaft and lobby is in the main portion of the building, a positive pressure of 50 Pascal shall be maintained in the lift shaft. The mechanism for pressurization shall act automatically with the fire alarm; it shall be operable mechanically also.		
	I	Exit from the lift lobby, if located in the main portion of the building, shall be through a self-closing smoke stop door of half an hour fire resistance.		
	J	Lifts shall not normally communicate with the basement; if, however, lifts are in such communication, the lift lobby of the basements shall be pressurized with self-closing door as above.		
	K	Switch(es) at ground floor level, shall be provided on all the lifts to enable the fire service from ground to the lifts.		
	L	Telephone or other communication facilities shall be provided in lift cars for building of 30 m height and above. Communication system for lifts shall be connected to fire control room for the building.		
	M	Suitable arrangements, for providing slope in the floor of lift lobby shall be made to prevent water, used during fire fighting at any landing, from entering the lift shafts.		
	N	A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the locations of the stairways.		

	O	Alternate source of power supply shall be provided for all the lifts through a manually operated changeover switch.		
18	Fire Lift- (NBC-P-2-4.4.2.5)(NBC- p-4-annex-C-1.5)		No.-.....	
	A	Minimum one Fire Lift with capacity not less than 545 kg/8 persons lift for every 1200 sq. meters. area.	Details	Capacity
			Fire Lift1	
			Fire Lift2	
	B	For every type of high rise buildings, fire lift is essential. Following details shall apply for a fire lift :-		
	1	To enable fire services personnel to reach the upper floors with the minimum delay, one fire lift per 1200 sq meter of floor area shall be provided and shall be available for the exclusive use of the fireman in emergency.		
	2	The lift shall have a floor area of not less than 1.4m ² . It shall have loading capacity of not less than 545 kg (8 persons lift) with automatic closing doors of minimum 0.8m width.		
	3	The electric supply shall be on a separate service from electric supply mains in a building and the cables run in a route safe from fire, that is , within the lift shaft. Lights and fans in the elevators having wooden paneling or sheet steel construction shall be operated on 24 V supply.		
	4	Fire fighting lift should be provided with a ceiling hatch for use in case of emergency, so that when the car gets stuck, it can be easily opened.		
	5	In case of failure of normal electric supply, it shall automatically trip over to alternate supply. For apartment houses, this changeover of supply could be done through manually operated changeover switch. Alternatively, the lift shall be so wired that in case of power failure, it comes down at the ground level and comes to standstill with door open.		
	6	The operation of a fire lift is by a simple toggle 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 will become inoperative and the lift will be on car control only or on a priority control device. When the switch is off, the lift will return to normal working. This lift is usable by the occupants in normal times.		
	7	The words 'Fire Lift' shall be conspicuously displayed in florescent paint on the lift landing doors at each floor level.		
	8	The speed of the fire lift shall be such that it can reach the top floor or any refuge floor from ground level within 1 min.		
19	Refuge area : (NBC-P-2-3.4.5.5/Annexure-E-4) (NBC- p-4-4.12.3 & appendix-D) At floor No-.....		Sq. Meters.	
20	Fire Tower- (NBC- p-4-3 and 4.13)At height-Meters			
21	Arrangement of Exits and <u>Other Exit Requirements</u> : (NBC-P-4.4.2 / 4-4.4.2.2 / 4.4.2.3) (NBC- p-4-4 Appendix-C)			
	A	Exits shall be so arranged that the travel distance on the floor shall be within the stipulated limits as per National Building Code for a particular class of occupancy and should not be more than half of that travel distance from the dead end of a corridor with the exception that for assembly and institutional occupancies it shall not exceed 6 meters.		
	B	Lift and escalators shall not be considered as exits.		
	C	Every public place to have sufficient safe exits – without passing through another occupied unit.		
	D	Capacity (aggregate width) of exits shall be based on occupant load (in the affected floor (s)) and occupants that can be safely evacuated per 50 cm of exit.		

	E	Fire-check doors for fire resistance of two hour to prevent spread of fire/ smoke, in escape routes, particularly at entrance to lifts and stairs which are prone to fire /smoke effect.	
	F	Number of persons within any floor area or occupant load shall be based on actual.	
	G	Travel distance of exit stairs should be according to occupancy. These should be at distance to one another and should provide exit in different directions. For basements travel distance should not exceed 15 meters.	
	H	For continuous safe exit, it shall open into corridor or in enclosed staircase through landing.	
	I	Staircases shall be of enclosed type .	
	J	Exit doors to be openable without keys.	
	K	Route to be always free of any obstructions.	
22	Enclosed vertical openings : (NBC-P-3.4.5.6)		
		Every vertical opening between the floors of a building shall be suitably enclosed or protected to prevent spread of fire, smoke, or fumes through vertical openings from floor to floor so that occupants can use the same as means of egress in case of fire.	
23	Corridors and Passageways(NBC-P-4.4.4.2.4.2)(NBC- p-4-4.8.1/4.8.3)		
	A	The width of the corridors and passageways shall not be less than the aggregate required width of exit doors .	
	B	The above (and stairs/lifts) shall have fire/ smoke resistance doors.	
	C	Exit corridors and passageways shall have adequate width as stipulated for a particular class of occupancy.	
	D	Have adequate ventilation	
	E	Adequate light to ensure safe travel	
24	Horizontal Exits(NBC-P-4-4.2.4/ Annexure-E-4) (NBC- p-4-4.12.1/2,5)		
	A	To have with the same width at least one fire door of self closing type	
	B	Doors to be openable at all times from served side(s)	
	C	The width of horizontal exit shall be same as for the exit doorways. A horizontal exit shall be fitted with at least one fire/smoke check door of minimum 1 hr. fire rating.	
25	Escape Lighting and Exit Signage : (NBC-P-4-3.4.7)(NBC- p-4-4.2.7:4.16.3/4/10,C1.14b/4.16:appendx-D1.14)		
	A	Emergency lighting shall be powered from a source independent of that supplying the normal lighting. Escape lighting shall be capable of : a) Indicating clearly the escape routes, b) Providing adequate illumination along such routes to allow safe movement of persons towards and through the exits, c)Ensuring the access of firemen or equipments to the fire alarm call points and the escape routes. d) The emergency lighting should automatically activate within 1 second of the failure of the normal lighting system. e)The emergency lighting system shall be capable of continuous operation for a minimum duration of 1 hour and 30 minutes even for the smallest premises.	
	B	All escape Exit routes to have clearly visible & illuminated signs (auto glow sinages) with battery backup emergency alternate power supply.	
	C	It should be powered by source independent of normal power, for stairs/ exit routes & fire alarm with one and half hrs. batterybackup.	
26	Basements(NBC-P-4-4.2.19) (NBC- p-3-12.9.3 & p-4-C.1.6)		
	A	Every basement shall be, in every part, at least 2.4 m in height from the floor to the underside of the roof slab or ceiling.	
	B	The minimum height of the ceiling of any basement shall be 0.9 m and the maximum 1.2 m above the average surrounding ground level.	

	C	The access to the basement shall be separate from the main and alternative staircase providing access and exit from higher floors.	
	D	Where the staircase is continuous in the case of buildings served by more than one staircase, the same shall be of enclosed type serving as a fire separation from the basement floor and higher floors.	
	E	The staircase of basements shall be of enclosed type situated at the periphery of the basement to be entered at ground level only from the open air.	
	F	It shall be in such positions that smoke from any fire in the basement shall not obstruct any exit serving the ground and upper store's of the building	
	G	It shall be connected with basement through a lobby provided with fire resisting self closing doors of 1 hour resistance.	
	H	Open ramps shall be permitted if they are constructed within the building line.	
	I	If the travel distance exceeds as required, additional Staircases shall be provided at proper places.	
	J	Adequate ventilation shall be provided for the basement. The ventilation requirements shall be the same as required by the particulars occupancy according to byelaws.	
	K	Any deficiency may be met by providing adequate mechanical ventilation in the form of blowers, exhaust fans, air conditioning system etc.	
	L	Each Basement shall be separately ventilated.	
	M	Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level.	
	N	Stall board and pavement lights should be in positions easily accessible to the fire brigade and clearly marked.	
	O	In Multi-storey basements, intake ducts may serve all basement levels, but each basement level and basement compartment shall have separate smoke outlet duct or ducts.	
	P	Ducts so provided shall have the same fire resistance rating as the compartment itself.	
	Q	Smoke from basement fire shall in no case ingress into any exit path /stairs serving upper floors.	
	R	Mechanical extractors for smoke venting system from lower basement levels shall also be provided.	
	S	The system shall be of such design as to operate on actuation of heat/smoke sensitive detectors or sprinklers, if installed.	
	T	Mechanical extractors shall have an internal locking arrangement, so that extractors shall continue to operate and supply fans shall stop automatically with the actuation of fire detectors.	
	U	It shall also have an arrangement to operate it manually.	
	V	Use of LPG/Pressure stove in basement is prohibited, while in other areas 4 hours fire-resistant enclosures are permitted.	
	W	Adequate arrangements shall be made so that surface drainage does not enter in to basement.	
	X	The walls and floors of the basement shall be watertight.	
27	Fire Rating-(NBC-P-4-Annexure-C) (NBC- p-4-3.4.7/3.4.8/3.4.8.1/3.4.8.2/3 and C1.9)		
	A	If a building has more than one occupancy it shall comply with requirements of the most hazardous one, unless 4 hours rated separating wall is provided.	
	B	There should be fire resistant doors of 1 hour rating, in escape routes, particularly at entrance to lifts, staircases.	
	C	To prevent the spread of fire, there should be 2 hours rating fire resistance doors/ steel rolling shutters.	
	D	There shall be 2 hour fire resistance cable of wall and floor inside the duct / shaft with 1 hour rating fire resistance in inspection door.	
	E	All fire safety items like fire resistant doors shall be provided.	
	F	Surface finishing on walls / ceilings/facade shall minimize the spread of fire or toxic fumes.	
	G	Finishing material used for interior surfaces and decoration shall not generate toxic	

		smoke.	
	H	Use IS 2777 “Class 1 flame-spread”, surfacing material, and fabric materials used for decoration, carpets curtains etc.	
	I	Walls, partitions or floors lined with combustible material, to have surfaces conforming to IS 1642, to prevent rapid fire spread, hampering escape of occupants.	
28	Compartmentalization : (NBC-P-4-4.5)		
	A	High Rise Buildings should be suitably compartmentalized so that fire/smoke remains confined to the area where fire incident has occurred and does not spread to the remaining part of the building.	
	B	Compartmentation (if any), specify the specific detail of fire resistant doors/stops.	
	C	All floors to be compartmented into 750 sq. meters area through 2 hours rated fire separation walls.	
	D	Whether compartmentation is proposed to confine the fire/smoke to the area where fire incident has occurred (CI C.9 Annexure C, Part 4, NBC, 2005)	
29	Smoke venting (NBC-P-4-4.4.2.5/4.6) (NBC- p-4-3.4.1/12,4.2.9,C.1.6,3.4.6.4.2.6,4.4,6.4.6.11,3.4,6.4.4,6.4.5)		
	A	Automatic smoke vents, with minimum 3.3% of floor area, in assembly areas and balconies, shall be installed.	
	B	Automatic smoke vent may be substituted with powered exhausters with department's permission.	
	C	Automatic dampers should be closed, to prevent spreading of smoke in case of fire or smoke at AC's outlet.	
	D	Mechanical ventilation & smoke exhaust system	
	E	Vents for smoke to minimize their spread	
	F	Vents should be minimum 2.5% of floor area of basement to prevent spread of smoke.	
30	Electrical Installation (NBC-P-4-3.4.6/3.4.5.4 and Part-8) Section-7 of National Electric Code, 2011(NBC- p-8-3.9.1.5/9.2)		
	A	Electrical Installations shall be by licensed electrical contractor and supervised by the holder of competency-certificate/permit issued by Government.	
	B	Complete drawings showing all circuits to enable functional checking.	
	C	The electric power distribution cable/ wiring shall be laid in a separate duct. The duct shall be sealed at every floor with non-combustible materials having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits.	
	D	Water mains, telephone lines, intercom lines, gas pipes or any other service line shall not be laid in the duct for electrical cable; use of bus ducts/ solid rising mains instead of cables is preferred.	
	E	Fire Alarm/PA. Systems (Note : Auto start and auto switch over from normal to emergency source should be ensured)	
	F	Separate circuits for firefighting pumps, lifts, staircases, corridor lighting and blowers for pressuring system shall be provided directly from the main switch gear panel and these circuits shall be laid in separate conduit pipes, so that fire in one circuit will not affect the others.	
	G	Such circuits shall protect as automatic circuit breaker at main point.	
	H	Master switches controlling essential service circuits shall be clearly labeled.	
	I	At every floor level seal space between cables etc and shaft with fillers, to stop fire.	
	J	The inspection panel doors and any other opening in the shaft shall be provided with airtight fire doors having fire resistance of not less than 1 hour.	
	K	Periodical verification of efficacy of emergency/alternate power supplies and related escape and fire safety equipment (IS- 1646-3.6 and 11.6)	
	L	Electrical fires being common cause of fires, strict compliance I.E.R.30 (ISI, electrical material) and IS-732 and NBC-P-8-2, (electrical wiring), is essential. Compliance with I.S. 1646; 732, 10028, regarding fire safety of buildings, electrical wiring and transformers as are mandatory. For electrical Safety compliance of Indian Electrical Rules, including related Indian standards/ Codes stipulated therein is also mandatory (N.E.C.-Part 3-3 and IS-4878-14; IS-1646 and 732).	

31	Sub- Station /Transformers (NBC-P-4-3.4.6.3/ Part-8)		
	A	Transformers room/ enclosure, location and ventilation/exhaust to be such that no smoke fumes there from can ingress into exit/escape routes or parking or other parts of the building.	
	B	Transformer plinth should be at least 15 cm. above grade and if oil filled, provision should be made to prevent egress of leaking oil into any parking area.	
	C	Indoor transformers should have auto high velocity water spray or emulsifying system (IS-15.10.3)	
	D	Transformer shall have soak pit, fencing and provided with 45 Ltr. foam trolley	
	E	A sub-station or a switch-station with oil filled equipment shall not be located in the building.	
	F	The sub-station structure shall have separate fire resisting walls/ surroundings	
	G	The sub-station structure shall necessarily be located at the periphery of the flow having separate access from fire escape staircase.	
	H	The outside walls, ceiling, floor, openings including doors and windows of the sub-station area shall be provided with a fire resisting door of 2 hours fire rating.	
	I	Direct access to the transformer room shall be provided, preferably from outside the fire escape staircase.	
32	Stand by source of power supply- (NBC-P-4-3.4.6.2) Automatic – Manual –		
33	Air-Conditioning System(NBC-P-4-3.4.8)		
	A	Escape routes like staircases, common corridors, lift lobbies, etc., shall not be used as return air passage.	
	B	The ducting shall be constructed of adequate gauge metal.	
	C	Wherever the ducts pass through fire wall or floors, opening around the ducts shall be sealed with materials having fire resistance rating of the compartment ;	
	D	Where a duct crosses a compartment, which is fire rated, the duct shall be fire rated for same fire rating.	
	E	The materials used for insulating the duct system (inside or outside) shall be of non-combustible materials. Glass wool shall not be wrapped or secured by any material of combustible nature.	
	F	Area more than 750 m ² on single floor shall be separated by a fire wall and automatic fire dampers.	
	G	Air duct serving main floor area, corridors, etc., shall not pass through the staircase enclosure.	
	H	The air-handling units shall be separate for each floor and air ducts for every floor shall be separated and in no case inter-connected with the ducting of any other floor.	
	I	The vertical shaft for fresh air shall be of non-combustible materials.	
	J	The air filters of the air-handling units shall be of non-combustible materials.	
	K	The air handling unit rooms shall not be used for storage of any combustible materials.	
	L	Inspection panels shall be provided in the main trunk to facilitate the cleaning of ducts.	
	M	Fire Dampers	
	(a)These shall be located in conditioned air ducts and return air ducts/ passages at the following points: (i) at the fire separation wall ; (ii) where ducts pass through floors, and; (iii)at the inlet of supply air duct and the return air duct of each compartment on every floor;		
	(b) The dampers shall operate automatically and shall simultaneously switch off the air-handling fans. Manual operation facilities shall also be provided.		

34	Provisions of Protection against lightening- -(NBC-P-4-3.4.6.5)					
35	Minimum Fixed Fire Fighting installations(Table No. 07 of NBC-P-4) (minimum fixed fire fighting installations as prescribed in table 07 of NBC-Part 4 should be provided.					
A	Detector & Alarm System - (NBC-P-4-4.9)All building with height of 15 meters or above shall be equipped with Manually Operated Electrical Fire Alarm (MOEFA) system and automatic fire alarm system in accordance with good practice.					
A-1	Manually operated electrical fire alarm system (MOEFA (Table-07)					
A-2	Manual Call Alarm Points in the entire building.			Total Number.....		
A-3	MOEFA shall be installed in the building with one or more call boxes located at each floor. The call boxes shall conform to good practice					
A-4	The installation of call boxes in hostel and such other places where these are likely to be misuses shall be avoided. Location of all boxes in dwelling units shall preferably be inside the building.					
B	Automatic Detection & Alarm System (NBC-P-4-4.9 and Table-07)					
B-1	Smoke Detectors			Total Number.....		
B-2	Heat detectors,			Total Number.....		
B-3	Beam Detectors (Please refer IS 2189:1999)			Total Number.....		
B-4	Fire detection control panel in floor-			Total Number.....		
C	Automatic Sprinkler System(NBC-P-4-2.6.4.2/5.1.3 and Table-07)(Refer IS 15105:2002)			Total Number.....		
D	Hose Reels. (NBC-P-4-5.1. and Table-07)			Total Number.....		
E	Wet Risers (NBC-P-4-2.6.5 and Table-07)			Total Number.....		
F	Dry Risers (As per requirement of local authority dry risers may be used in hilly areas, industrial areas or as required).					
G	Down Comer					
H	Yard Hydrant(NBC-P-4-2.6.4.1and Table-07)For the building's fire pump			Total Number.....		
I	Internal Hydrants on each floor including basement(s) and terrace			Number		
J	State Water Storage Reservoirs (NBC-P-4-5.1.2.1 and Table-07) Adequate supply of water for the purpose of fire fighting shall always be available in the form of underground / terrace level static storage tank with specified capacity. There shall be arrangements for replenishment by means of alternative source of supply at the rate of 1000 liters per minute for underground static tank. When this is not practicable, the capacity of static storage tank (s) shall be increased proportionately in consultation with the local fire brigade.					
K	Underground static water tank/ tanks, Total capacity ltrs..	Details		ltrs		
		Underground Static Water tank 1				
		Underground Static Water Tank 2				
L	Terrace tank/ tanks, total capacity ltrs..	Details		Ltrs.		
		Terrace Tank 1				
		Terrace Tank 2				
M	Stationary Fire Pumps for pressurizing the wet risers (NBC-P-4-5.1.2.2 and Table-07)					
1	Pumps :	Details		ltrs./min.	capacity	
		Jockey Pump 1				
		Jockey Pump 2				

	2	Electrical Main Pump :	Details	ltrs./min	Capacity						
			Pump 1								
			Pump 2								
	3	Standby Diesel Pump	Details	ltrs./min.	Capacity						
			Pump 1								
			Pump 2								
	4	Electrical Pump for Sprinkler System	Details	ltrs./ min.	capacity						
			ElectricalPump 1								
			ElectricalPump2								
	5	Booster Pump	Details:	ltrs./min	capacity						
			Booster Pump 1								
			Booster Pump 2								
36	First Aid Fire Fighting equipments / Extinguishers (NBC-P-4-5.1.1 and Table-07)				Number-						
First aid fire extinguishers should be provided as per IS 2190: 1992 Note:- The following minimum number of fire extinguishers should be provided:-											
(1)One ABC powder extinguishers of 5 kgs. capacity and 2 no. of fire buckets filled with clean, dry, fine sand should be provided for every 8 cars.											
(2) One extinguishers of 2 kgs. capacity should be provided near the entrance to each main switch board room.											
(3) ABC powder extinguishers of 5 kgs. capacity should be provided near transformer, if installed.											
(4) ABC powder extinguishers of 5 kgs. capacity should be provided inside each lift room											
(5) water pipe gas cartridge extinguisher of 9 ltrs capacity should be kept near each staircase landing on every floor.											
(6) Scale of suitable extinguishers for other areas shall be fixed separately. After collection of the scales of suitable fire extinguishers for everyareas andfinalization of the shape of utility in each area final approval shall be obtained from the Fire Service.											
(7) All the extinguishers suggested above should be with BIS Mark and should be located at an easily accessible position without obstructing the normal passage											
	Sr. No.	Type of Extinguishers	Capacity	Quality	Make	Sr.No./Explosive No.	Year of Manufacturing	Year of Purchase	ISI mark	Remarks/Refilling Date	
37	Helipad (NBC-P-4- Annexure-E-8)										
	For Buildings of more than 200 meters. height, whether helipad is provided										
38	Fire Control Room: - (In the entrance lobby) (NBC-P-4-3.4.12) 1. with public address system between the various floors and the fire control room 2.Provision of intercom between various floors and the fire control room-										
39	Fire Safety Officer- (NBC-P-4-4.10.1/4.10.2)(under section 29 of the Bihar Fire Service Act, 2014) Provided individually- Provided with other builders-										
40	Fire Drills & Fire Orders :-(NBC-P-4-4.11 & Annexure-D)										
	A	Provision of systematic training of occupants in fire prevention									
	B	Fire notice / orders shall be prepared to fulfill the requirements of fire fighting and evacuation from the buildings in the event of emergency. The occupants shall be made thoroughly conversant with their actions in the event of emergency by displaying fire notices at vantage points and also through regular training. Such notices should be displayed prominently in broad letter.									
41	Fire and Life Safety Audit - (NBC-P-4- Annexure-E-7)										

	Date of Fire Audit-			
42	Whether estimates for Fire Safety System (Certified by the architect) is submitted?			
43	Whether 15% of the estimates of Fire Safety System as Bank Guarantee is submitted?Rs			
44	Whether bank draft for obtaining NOC is submitted?			
45	Provide name, address, license No., signature of technical staff			
	A	Builder		
	B	Architect		
	C	Structural Engineer		
	D	Electrical Contractor		
	E	Fire Safety Systems Contractor		

It is certified that the information given above are correct. No information has been concealed, misrepresented or falsified. I understand that in the event of any wrong information provided in the above check list, the provisional/ final NOC is liable to be withdrawn/ cancelled by State Fire Service.

.....
**Signature of Architect/ Engineer/ Builder/
Electrical contractor/ Fire Safety System Coordinator.**

Affidavit / Undertaking regarding compliance of provisions of various Acts and Rules, guarantee of expenditure in fire safety system and equipments and others.

(Under section- 02 (g) of Bihar Fire Service Act, 2014, under rule-15 (f) (i) of Bihar Fire Service Rules, 2021)

Following undertaking is given in favour of the State Fire Officer-cum-Director, Bihar Fire Service :-

We declare that we are Builders, Promoters and Developers of the building situated at.....
.....

1. We undertake to comply with all the passive & active fire system measures as stipulated in National Building Code, 2016 **as amended from time to time**, Multistoried Building Regulation, 1981, Bihar Building Byelaws, 2014 **as amended from time to time**, Bihar Fire Service Act, 2014, Bihar Fire Service Rules, 2021 and advice contained in provisional NOC.
2. We undertake to give information regarding commencement of work under section 10 of Bihar Building Byelaws, 2014 **as amended from time to time**.
3. We undertake to give periodic report of construction under section 12 of Bihar Building Byelaws, 2014 **as amended from time to time**.
4. We undertake to give notice to the Authorised officer in prescribed form, in pursuance of Section 15 of the Bihar Building Byelaws, 2014 **as amended from time to time**, after completion of building construction work.
5. We undertake to obtain Final NOC for taking occupancy certificate.
6. We undertake to impart training to 40% of the occupants and employees working at building in fire prevention and fire fighting at Bihar Fire Safety Training Academy, Anandpur, Bihta within 6 months from the date of occupation.
7. We undertake to call Fire Service for Fire Audit at regular intervals.
8. We undertake to maintain and keep the fire fighting equipments installed at building in good working condition at all times by regularly servicing and replacing the obsolete equipments.
9. We state that we have prepared the estimate of Rs..... towards the provision of all fire fighting systems and the estimate in original along with the checklist of fire safety measures is being submitted for approval.
10. We undertake to furnish Bank Guarantee for 15% of the total estimated cost of fire safety systems as above in favour of Director, State Fire Services, obtained from the Nationalised Bank.
11. We agree that the above Bank Guarantee can be invoked by Director, State Fire Services at any time in the event of non-provision or non-maintenance of firefighting systems in our building as per concerned Code, Act, Rules, Regulations or in the event of non-compliance of any other fire safety measures suggested in the provisional no objection Certificate.

Signature of the

Builder/Promoter/Developer

Name :-

Designation:-

Address for Correspondence-

Contact Telephone number-

Place :-

Date:-