## SHINE BUILDCON PVI. LID.

Regd. Office: H-334, Ground Floor, New Rajinder Nagar, New Delhi-110060 CIN: U45201DL2004PTC131675, Telephone No.: 011-28744111/12 Email Id: shinebuildcon@rediffmail.com

SHINE/NOCF/2017/01

Date: 31st March, 2017

The Sr. Fire Station Officer, Fire Station , Sector -29 Municipal Corporation Gurgaon

Subject: Objection Regarding Approval of fire fighting Scheme from Fire Safety point of view of Commercial Colony meas. 2.893 acres in Sector -70 ,Gurgaon of M/s Shine Buildcon Pvt. Ltd.

Reference: Your letter No. MCG/FS/SFSO/2016/3239 dated 21.12.16

Dear Sir,

This is in reference to the captioned subject. Please be informed that we have submitted clarification towards objection raised in your letter No. MCG/FS/SFSO/2016/3239 dated 21.12.16

You are therefore requested to issue Fire NOC at the earliest.

Yours truly

For Shine Buildcon Pvt. Ltd.

Vikas Bajaj (Authorized Signatory) विकासिक इनके अवकार वर्गीय दशकत केन्द्र सेश्टर-१३ स्वर विषय पुरुषाय।

M/s Shine Buildcon Pvt. Ltd., via- Badshahpur, Sector- 70, Gurgaen.

Dated- 21/12/16

Subject-

Objection Regarding Approval of fire fighting Scheme from Fire safety point of view of the Commercial Colony meas. 2.893 acres in Sector-70, Gurgaon of M/s Shine Buildcon Pvt. Ltd.

उपरोक्त विषय पर सी एक सी एक सी एक सी दी. से प्राप्त फाईल गठ- 201610054992 दिनांक 05.10.2016 थी

विश्वाचीन कार्य हेतु प्राप्त काईस का दनकत केन्द्र अधिकारियों की टीम द्वारा अवलोकन किया गया। अवलोकन उपरांत इस फाईल में बनी फायर रखीम में निम्नारिनिवत कमियाँ पाई गई है-

- 1- Questionnaire sr. nos. 8,11,13,15,16,18,19,22,24,26,31,33,35,39,43,44, 48,53 are not filled as per NBC norms. In questionnaire, many columns of as per
- 2- Sign. of Fire, Ventilation, Electrical Consultants and Architect not affixed in questionnaire and drawing.
- 3- The applicant has applied for issue of Fire NOC but file relates to issuance for fire scheme, Fresh request letter to be submitted for issuance of fire scheme.
- 4- Authority letter to submission of file and Authorision letter of signing authority not attached in file.
- 5- DBR of Fire, Ventilation and Fire alarm and Detection System not attached.
- 6- Fire Ventilation and Electrical Consultant Certificate not attached.
- 7- Classification of cullding not shown in fire scheme on which fire system has been designed.
- 8- As per BR-III, Approval is given for revise building plan nut in questionnaire & scheme, it is not mentioned anywhere about earlier approval of fire scheme.
- 9- UG fire tank capacity not as per norms, it shall be increased.
- 10-Why fire control room shown in B-1, Which is not allowed.
- 11-Diesel pump capacity not as per norms, it shall be increased.
- 12-Automatic fire system for Transformer, HT & LT panel not shown.
- 13-In site plan- Fire tender movement road, Width of Main Entry/Exit, Distance between yard hydrant not shown.
- 14-Detail of Refuge area with calculation not shown in scheme, The area shall also be marked on relevant drawing with direct access of staircase.
- 15-Seprete drawing required for Ventilation and Pressurization system for basement area.

- 16-Distance between sprinklers, detectors and curtain nozzles not shown.
- 17-fire door in Stairs, Lift lobby and Electrical shaft/room not marked,
- 18-Why deluge valve not shown in curtain line. 19-Mechanical Ventilation, Pressurization, Pump Head, Hydraulic head loss calculation of sprinklers, Hydrants and Curtain not attached.
- 20-In drawing Cinema hall Audi 1,2,3 shown but in questionnaire not matched
- about cinema area, occupancy. Why. 21-Seprate drawing required for Cinema Audi's, clearly showing Travel distance, Spacing between sitting area, Width of Entry/Exit etc.
- 22-Provision of hose reel/FHC in all Audi's etc not shown and provision of fire system are also not sufficient as per NBC norms.
- 23-Why smoke Detectors shown in service apartment room with pantry area,
- 24-Wny mechanical parking area shown in basement area, clarification required about no. of cars and fire system etc also required.
- 25-Fire alarm & Detection system in Audi area not shown.
- 26-Elevation Section Drawing not attached.
- 27-Upper floor mechanical ventilation system also not shown.
- 28-Width of staircase of Assembly building in cinema area not less than 2000 mm.
- 29-Detail regarding non slippery staircase not given.
- 30-Detail of false ceiling gap & fire system above ceiling not clear shown.
- 31-A Certificate shall be given on every drawing that these drawing are as per original drawing passed by Town and Country Planning vide memo no and date.

अत आपको लिखा जाता है कि आप फायर रुठीम को एन.मी.सी. 2005 के अनुसार टीक करके एवं कमराख्या अनुसार जवाब पुन शी.एफ.सी., एम.सी.जी. कार्यालय के माध्यम से प्रस्तुत करें तथा उपरोक्त Objection गूल फाईल दमकल केन्द्र सैक्टर-29, गुडमांव से किसी भी कार्य दिवस में आकर प्राप्त करें।

वरिष्ठ दगकल केन्द्र अधिकारी वगकल केन्द्र सैक्टर-29. नगर निगम गुढगांव।

## The proposed Fire Fighting Scheme

S.No	DESCRIPTION	AS PER NBC		The proposed time righting Sci	Proposed			
1	(D 7)							
1	Name of Building			Revised Building Plan of Commercial Colony Measuring 2.893 Acres (License No. 34 of 2012 dated 15-4-2012) in Sector- 70, Gurgaon Manesar Urban Complex being developed by Shine Buildcon Pvt. Ltd.				
2	Address of Building		SHINE BUILDCON PVT. LTD. SECT	OR-70, BADSHAPUR VILLAGE, O	GURGAON (HARYANA)			
3	Name and address of builder/promoter		SHINE BUILDCON PVT. LTD REGD. OFFICE: H-334,GROUND F CORP. OFFICE: H-281,UDYOG VII					
4	Name and address of Owner / occupiers of individual flats		SHINE BUILDCON PVT. LTD REGD. OFFICE: H-334,GROUND F CORP. OFFICE: 281,UDYOG VIHA					
5	Plot area (Gross)		,		2.5753 Acres (10421.85 Sqm.)			
6	Covered area (at ground LvI)				2806.24			
7	Height of building from N.H.							
8. a)	Overall height (from grade level/ surrounding ground level)				55.40M			
b)	Height upto the highest				42.4 M			
9	occupied floor Number of floors (including				3 BASEMENT AND G+12 FLOOP			
9	ground floor)				(16 FLOORS)			
10. a)	Number of basements (please indicate level below grade in each case)			3 Basement  Basement 1 = -3.5M. Lvl.  Basement 2 = -8.00M. Lvl.  Basement 3 = -12.50M. Lvl.				
b)	Area of Basement and Podium				Basement 1 = 3510.00 Sqm.			
					Basement 2 = 3920.03 Sqm.			
				Total Po	Basement 3 = 3723.13 Sqm.	2 16 Sam		
			Total Basement Area (B1+B2+B3) = 11153.16 Sqm.					
11	Occupancy (use - Please mention separately for basement and floors)	PART-4 CLAUSE 4.3 & 4.4.2.1 TABLE-3	Floors	Covered Area (Sqm.)	No. of Studio Apartment	No. of 1BHK /STUDIO	Population	
		3 Sqm. Per Person	Ground Floor	2772.96			924.32	
		6 Sqm. Per Person 6 Sqm. Per Person	First Floor Second Floor	2406.13 2383.02			401.02 397.17	
	. RETAIL	6 Sqm. Per Person	Second Floor	2463.12			410.52	
		Cinema seating (366Nos.)	Third Floor				439.20	
		Food Court 6		1590			265.00	
	SERVICE FLOOR	Sqm. Per Person	Fourth Floor (Service Floor)	1330			203.00	
	SERVICE I EGOR		Fifth Floor	1173.39	28	3	71.00	
			Sixth Floor	1173.39	28	3	71.00	
	CEDVICE ADADTMENTS	2 person per studio ,	SeventhFloor	1173.39	28	3	71.00	
	SERVICE APARTMENTS	5 person per 1BHK	Eighth Floor NInth Floor	1132.14 1132.14	28 28	3	71.00 71.00	
			Tenth Floor	1132.14	28	3	71.00	
			Eleventh Floor	1079.01	28	3	71.00	
	MULTIPURPOSE HALL	6 Sqm. Per Person	Twelfth Floor	389.75 TOTAL POPULATION	0	0	64.96 <b>3399.19</b>	
				IOTALIOFOLATION			33,3,13	
12	Covered area of typ. Floors		Floor	Covered Area (Sqm.)				
			Ground Floor First Floor			72.96 06.13		
			Second Floor Third Floor	2383.02 2463.12 74.81 1173.39 1173.39				
			Fourth Floor					
			Fifth Floor Sixth Floor					
			SeventhFloor		117	73.39		
			Eighth Floor NInth Floor	1132.14 1132.14				
			Tenth Floor Eleventh Floor		113	32.14 79.01		
			Twelfth Floor		38	9.75		
12	Darking areas		Total		184	85.39		
13	Parking areas Basement @ 35 Sqm / ECS Surface @ 25 Sqm / ECS		No. of Parking	Parking Area (Sqm.)				
-		Basement 1 =	112			54.98		
		Basement 2 =	116	2691.51				
		Basement 3 =	120			35.18		
	indicate the load bearing strength of the roof of	Surface Parking =  NBC PART 4 CLAUSE 5.1.6 45 MT (Fire tender load)	55	1375 60 Ton For Fire Tender Movement				
	basement							

S.No	DESCRIPTION	AS PER NBC	Proposed					
	Details of surrounding property / features		Land Use is Commercial					
	Compass directions in relations to the building		OWNERS					
	North South		24 MT WIDE ROAD PRIVATE PROPERTY					
	East		60MT WIDE SECTOR ROAD					
	West		PRIVATE PROPERTY					
15	Approach to proposed							
	building, width of the road and connecting roads, if any		60M wide Sector Road (12M wide Service Road)					
	Please give details of water supply available exclusively for fire fighting.	Tank as per NBC						
а	Underground Fire Reserve	3,00,000 ltrs.	Underground common fire tank of capacity 3,00,000 lit provided					
	Over Head Fire Reserve	20,000 ltrs	20,000 ltrs					
17	Has wet risers (s) been	Table No-23 Clause 2.3						
	provided: if 30, picase	& Table no 24 Clause 5.1.2 Required 1	Yes					
	indicate the number of risers	no.Wet riser per 1000						
	and internal dia of each.	sqm.(150 dia)						
			For SERVICE APARTMENT BLOCK - 5th floor to terrace level- 3 Nos. Riser on each floor					
			4th floor 3 Nos. Riser					
			3rd floor 7 Nos. Riser  2nd floor 7 Nos. Riser					
			1st floor 8 Nos. Riser					
			Gr. Floor 6 Nos. Riser					
			B1 4 Nos. Riser  B2 4 Nos. Riser					
			B3 4 Nos. Riser					
18	Has any down comer been							
	provided? If so, please give details.	Not required	Not provided					
19	Please indicate the present	NBC , Clause 5.1.6	Water shall be fed from HUDA supply for replenishment of water for fire fighting. Total water storage of 3,00,000 litres in underground tanks for Fire Fighting tanks has been					
	arrangement for replenishment of water for fire fighting	replenishment with	proposed.					
20	Is a public or other water storage facility available nearby? If so, please give the capacity and diastance from your building; also please indicate if it is readibly accessible.		1 No. Raw water tanks capacity 75 cum each, 1 No. domestic water tanks capacity 75 cum each					
21	Please give any other							
	information that you can							
	regarding availability of water		1 No. Raw water tanks capacity 75 cum each, 1 No. domestic water tanks capacity 75 cum each					
	supply for fire fighting. Have internal hydrants been provided? if so, please		Yes. For Service Apartment block 5th floor to terrace level- 3 Nos. Hydrant on each floor					
	indicate.	Doguinad NDC Clause	1st floor 8 Nos. Hydrant 2nd floor 7 Nos. Hydrant 3rd floor 7 Nos. Hydrant 4th floor 3 Nos. Hydrant					
	a) No. of hydrants on each floor including basement(s)	6.4.8.2; 1No.Per 1000	Gr. Floor 6 Nos. Hydrant B1 4 Nos. Hydrant B2 4 Nos. Hydrant					
	and terrace b) have these hydrants single	Sq.M	B3 4 Nos. Hydrant Twin outlet					
	or twin outlets							
23	Have first aid hose reels been	Required NBC (Table No	Yes					
	provided? If so please	Required NBC (Table No 23)						
24	No. of hose reels on each floor		Voc For Coming Appring ability in the first translation of the first tr					
		Required NBC , Clause 6.4.8.2 1No. Hose reel with every hydrant	Yes. For Service Apartment block 5th floor to terrace level- 3 Nos. Hydrant on each floor 2nd Floor 7 Nos. Hydrant 3rd floor 7 Nos In Autodorium - 3 Nos . Hydrant 4th floor 3 Nos. Gr. Floor 6 Nos. Hydrant 1st floor 7 Nos. Hydrant					
а	Including basement(s).	Required NBC , Clause 6.4.8.2 1No. Hose reel	B1 4 Nos. Hydrant B2 4 Nos. Hydrant					
b		with every hydrant	B3 4 Nos. Hydrant					
		Required NBC , Clause 5.1.5 , 20mm dia.& 36.5m	Proposed 20mm dia and 36.5m long as per IS					
С	tubing on each reel Size(bore) and type of nozzle	long(Each) Stander 4(22)As per	6mm dia nozzle with shut off valve					
	fitted to each hose reel	IS:884 ; 6 mm dia. with shut off nozzle						
d	If the hose reel connected	Required NBC , Clause	Hose reel connected directly to the riser					
	directly to the riser or to the hydrant outlet?	5.1.5, Directly connected to the riser						
е	Has fire hose been provided		Provided Provided					
1	near each Hydrant: if so	Required NBC , Clause	i Tovided					
	please indicate:	6.4.8.2						
B	••	•						

S.No	DESCRIPTION	AS PER NBC	Proposed					
25		Required NBC , Clause 6.4.8.2 RRL delivery hose as per IS 636-1988	Reinforced rubber lined hose as per IS 636					
а	The size(bore) of hoses	Required NBC , Clause 6.4.8.2 63 mm dia		63 mm dia				
b		Required NBC , Clause 6.4.8.2 15 meters for each FHC			15m long			
С		Required NBC , Clause 6.4.8.2 2 Nos			4 Nos. with each FHC			
	near each hydrant Have branch pipes been provided? If so, please	With Each Hydrant Required NBC , Clause 6.4.8.2			Yes			
26	indicate. The type of branch pipe	Required NBC , Clause 6.4.8.2 Short branch pipe			Short type gun metal			
a		Required NBC , Clause 6.4.8.2 63mm Dia 20			63mm x 20mm dia			
	been sprinklered?	mm Nozzle Table -23 Unit -8 Clause 5.1.7 Required	Yes, sprinklers are provided in entire basement					
	b) Whether segregation /	NBC PART 4 CLAUSE C9	•	entation provided Maximum area of compartmentation 3000 sqmt. and maximum sprinkler coverage is 9 sqmt. and spacing is 3m x 3m in each				
	basement has been provided. If so please detail-	Area of compartmentation - 2000 sqmt.		compartmentation				
	Is the building equipped with automatic fire detection and alarm system? if so, please indicate –	Table -23 NBC- SECTION- 18,2005	- Yes, Addressable Fire detection and	ddressable Fire detection and Alarm system shall be provided. Smoke detectors for shops, corridors and lobby area, Multidetector at electrical Room, Basement, Heat (ROR cum fixed type) detector for Kitchen area shall be provided.				
28	The type of detectors used	Required NBC , Clause 1.6.4		Multi	Criteria detector, Smoke and Heat d	etectors		
a	The standard to which the detectors conforms	NBC- SECTION-18,2005			IS: 2189			
b	c) the code to which the	NBC- SECTION-18,2005	NFPA - 72					
С	Have manual call boxes been installed in the building for raising an alarm in the event of an outbreak of fire? If so, please give details.	Required	Yes Manual Call boxes are installed at each entry, exit, staircases.					
29	Has a public address system been installed in the building with loud speakers on each floor.	NBC Part -4 Clause 5	Yes Public address system is installed in the building with Ceiling speakers on floors, and Horn type speakers including basement.					
30	Has an intercom system been	NBC Part -4 Clause 5	Yes fire telephone jacks are provided.					
31	Has a fire control room been provided in the entrance lobby of the building	NBC Part -4 Clause 5	Provided at Ground and basement-1					
32	How many Staircases have been provided in the building? And their details		No. of Staircase			5		
			Width of Stairway					
			Width of Treads Height of Risers	Vidth of Treads 300 eight of Risers 150				
			Tread Surface					
33		Table -20 (v) 3 Sqmt /	RETAIL		710 perso	ons per floor		
		person for ground floor, 6Sqmt / person for upper floors for Retail.	SERVICE APARTMENT	70 persons per floor				
34	How many lifts have been installed in the building? And	Lift Type	Passenger Lift (RETAIL)	Passenger Lift (RETAIL)	Passenger Lift (SERVICE APARTMENT)	Freight Lift		
	No. of Lifts		2	2	3	1		
	Shaft Size Floor Travel		2000x2500  Basement 3 to 3rd Floor	2000x2500 Basement 3 to 4th floor	2000x2500 Basement 3 to 12th floor	1800x3000 Basement 3 to 12th floor		
	Door Type	NBC PART 4 CLAUSE C1.5C	Automatic	Automatic	Automatic	Automatic		
	Fire Resistance rating of Lift	NBC PART 4 CLAUSE	2 Hrs.	2 Hrs.	2 Hrs.	2 Hrs.		
	Car & Door Lift Car Size	C1.5E Part-4 Clause 1.5q-2 1.4 sqmt. Min.	1200X2000X2100	1200X2000X2100	1200X2000X2100	1000X2400X2100		
	Loading Capacity	Part-4 Clause c-1.5q-2 1.4 sqmt. Min 545 Kg (8	16PAX	16PAX	16PAX	1020 KG		
		Person) Lift						
	Communication System	Person) Lift  NBC PART Clause C-1.5	Yes	Yes	Yes	Yes		

for the false ceiling is combustible on non-combustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided	d delivery ump np gainst perate at	Required as per NBC  PART-IV TABLE-23  Required As per NBC  Table 23 NOTE-12 Main fire pump (Electric operated)-1No, Jockey pump 1No, Sprinkler pump (Electric operated)1No, Diesel operated fire pump 1 No.  200 & 150 dia.  Required As per NBC  Table 23 NOTE-22  2850LPM (Hydrant),	Provided  Provided 5 nos. pumps  Provided 5 nos. pumps  Main Fire Pump 200 mm dia suction & 150 mm discharge. Jockey pumps 80 mm dia suction & 65 mm dia discharge.  1 No. main hydrant pump cap.2850 LPM @ 105m head	
so, please indicate a Number of pumps  b The size of suction and of connections of each pump c The output of each pump c The output of each pump c The output Pressure ment at ( c ) d Is the pump automatic in the output Pressure ment at ( c ) d Is the pump automatic in the use of generator, so operating lift(s), fire pump emergency lighting of the use of generator, so operating lift(s), fire pump emergency lighting of the use of generator autom action or has to be standard for the use of generator autom action or has to be standard for the use of generator autom action or has to be standard for the build fire pump?  37 Where more than one lift installed in a common enclosure, have individuate been separated by fire resisting walls of two he fire rating?  38 Have the lift lobbies and staircases been effective neclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public pof the building? if so, pindicate location and alt mention if the material of the material of the building? if so, pindicate loation and alt mention if the material of the building? if so, pindicate loation and alt mention if the material of the building? if so, pindicate loation and alt mention of the material of the building? if so, pindicate loation and alt mention of the material of the building? if so, pindicate of the building centrally conditioned?  41 The type of Linning used ducts if any portion of ducts and insulating any portion of insulating any portion of ducts and insulating any portion of ducts and insulating any portion of ducts and insulating any portion of althe lagging as secured.  b Type of linning used, if any insulating any portion of ducts and insulating as secured.  c If false ceiling is conditioned.	d delivery ump np gainst perate at	Required As per NBC Table 23 NOTE-12 Main fire pump (Electric operated)-1No, Jockey pump 1No, Sprinkler pump (Electric operated)1No, Diesel operated fire pump 1 No.  200 & 150 dia.  Required As per NBC Table 23 NOTE-22 2850LPM (Hydrant),	Provided 5 nos. pumps  Provided 5 nos. pumps  Main Fire Pump 200 mm dia suction & 150 mm discharge. Jockey pumps 80 mm dia suction & 65 mm dia discharge.	
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d The maximum head agair which the pump can oper the output Pressure ment at ( c ) d Is the pump automatic in: 36	gainst perate at	Table 23 NOTE-22 2850LPM (Hydrant),		
d The maximum head again which the pump can oper the output Pressure ment at ( c ) d Is the pump automatic in power supply been pro If it is through a gener please indicate – a The capacity (output b The functions that camaintained simultaneous the use of generator, so operating lift(s), fire pure emergency lighting of the build fire pump?  d Has any yard hydrant burn provided from the build fire pump?  37 Where more than one lift installed in a common enclosure, have individuate been separated by fire resisting walls of two hours are stair wall been pressurized?  38 Have the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering the outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public provided in any Pu	jainst perate at	Table 23 NOTE-22 2850LPM (Hydrant),	1 No. main hydrant pump cap.2850 LPM @ 105m head	
which the pump can oper the output Pressure ment at ( c )  d Is the pump automatic in 36  Has a standby source power supply been pro If it is through a gener please indicate – a The capacity (output by The functions that can maintained simultaneous the use of generator, so operating lift(s), fire pump emergency lighting of the build fire pump?  d Has any yard hydrant but provided from the build fire pump?  37 Where more than one lift installed in a common enclosure, have individed been separated by fire resisting walls of two he fire rating?  38 Has the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering there outside at any floor?  40 Have all exits and direct of travel to each exit been sign posted with illuminating signs?  41 Have all exits and direct of travel to each exit been provided in any Public pro	perate at	2850LPM (Hydrant),		
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which the pump can oper the output Pressure ment at ( c )  d Is the pump automatic in 1 is the pump automatic in 1 is the pump automatic in 1 is through a gener please indicate – a The capacity (output b The functions that camaintained simultaneou the use of generator, so operating lift(s), fire pump emergency lighting operating lift(s), fire pump emergency lighting of the build fire pump?  d Has any yard hydrant but provided from the build fire pump?  37 Where more than one lift installed in a common enclosure, have individuate been separated by fire resisting walls of two he fire rating?  38 Has the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering the outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Har a false ceiling been provided in any Public pof the building? if so, plindicate location and als mention if the material of the false ceiling is combustible on noncombustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided	perate at	180LPM (Jockey),	<u>'</u>	
which the pump can oper the output Pressure ment at ( c )  d Is the pump automatic in 1 on 1	perate at	2850LPM (diesel), 2850	1 No. Diesel driven pump cap.2850 LPM @ 105m head	
which the pump can oper the output Pressure ment at ( c )  d Is the pump automatic in 1 on 1	perate at	LPM (Sprinkler) Required As per NBC	2 Nos. jockey pump cap.180 lpm @ 105m head	
at ( c )  d Is the pump automatic in a late of the building? if so, pl indicate a tay and a tay	ADDIOD C A	Table 23 Minimum 35 M	Minimum 3.5kg/Sqcm at the top most landing valve	
36 Has a standby source power supply been pro If it is through a general please indicate — a The capacity (output) b The functions that camaintained simultaneous the use of generator, so operating lift(s), fire pure mergency lighting emergency lighting of the build fire pump?  37 Where more than one lift installed in a common enclosure, have individed been separated by fire resisting walls of two heads fire rating?  38 Has the lift shaft(s) lift for stair wall been pressurized?  39 Have the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public provided in		at the top most landing valve.		
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If it is through a general please indicate —  a The capacity (outpute the state of the use of generator, so operating lift(s), fire pure emergency lighting of the build fire pump?  C Is the generator autome action or has to be state of manually?  d Has any yard hydrant but provided from the build fire pump?  37 Where more than one lift installed in a common enclosure, have individed been separated by fire resisting walls of two huf ire rating?  38 Has the lift shaft(s) lift for stair wall been pressurized?  39 Have the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public provid	rovided?	PART 4 Clause C1.15	Yes	
a The capacity (output) b The functions that capa maintained simultaneous the use of generator, superating lift(s), fire put emergency lighting of the standard of the use of generator autom action or has to be standard of the standard of	nerator,	TAINT 4 CIDUSE CT. 15	165	
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emergency lighting of the building?  The water loads at any floor?  The a false ceiling been provided in any Public posted in any Publi	, such as	PART 4 Clause C1.15	100% power backup to common areas, lifts and common services	
action or has to be stamanually?  d Has any yard hydrant be provided from the build fire pump?  37 Where more than one lift installed in a common enclosure, have individed been separated by fire resisting walls of two he fire rating?  38 Has the lift shaft(s) lift to or stair wall been pressurized?  39 Have the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public provided in				
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installed in a common enclosure, have individing been separated by fire resisting walls of two her fire rating?  38 Has the lift shaft(s) lift for stair wall been pressurized?  39 Have the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public provided in any Public provided in any Public provided in any enterial of the building? if so, plindicate location and also mention if the material of the false ceiling is combustible on noncombustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided	ilding's	Part - IV (2005) Table 23 TYPE E BUILDING		
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or stair wall been pressurized?  39 Have the lift lobbies and staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public pof the building? if so, plindicate location and als mention if the material of the false ceiling is combustible on noncombustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided				
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staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public pof the building? if so, plindicate location and als mention if the material of the false ceiling is combustible on noncombustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is sprovided.  c If false ceiling is provided		NBC PART-4 Clause C- 1.4 & Clause C-1.5 g)	Also one of the staircase is connected from basement 03 to fifth floor, which is also been pressurized, consisting of axial flow fans at terrace level and above the fifth floor this staircase is naturally ventilated	
staircases been effective enclosed to prevent fire/smoke entering ther outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public pof the building? if so, plindicate location and als mention if the material of the false ceiling is combustible on noncombustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is sprovided.  c If false ceiling is provided			,,	
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outside at any floor?  40 Have all exits and direct of travel to each exit be sign posted with illumin signs?  41 Has a false ceiling been provided in any Public provided in any Public provided in any Fublic provided in any Fubli	nom from	NBC Part 4 Clause 4.2.9	Fire doors are also provided for fire staircase and shaft for the upper floor.	
of travel to each exit besign posted with illuminsigns?  41 Has a false ceiling been provided in any Public pof the building? if so, plindicate location and als mention if the material of the false ceiling is combustible on non-combustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided				
signs?  41 Has a false ceiling been provided in any Public provided		NBC Part 4 Clause 4.2.7	Yes	
<ul> <li>Has a false ceiling been provided in any Public pof the building? if so, plindicate location and als mention if the material under the false ceiling is combustible on non-combustible.</li> <li>Is the building centrally conditioned?</li> <li>The material used for construction of ducts and fittings.</li> <li>The type of Linning used ducts if any.</li> <li>Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.</li> <li>If false ceiling is provided</li> </ul>	ninated	INDO I all 4 Clause 4.2./		
of the building? if so, pl indicate location and als mention if the material user for the false ceiling is combustible on non-combustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided				
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for the false ceiling is combustible on non-combustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided	also	Clause 5.1.7	Yes. Provided in lift lobbies, passage of apartment & Non-Combustible material (the wide space between soffit of slab and false ceiling is less than 800mm)	
combustible.  42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided	mention if the material used			
42 Is the building centrally conditioned?  43 The material used for construction of ducts and fittings.  a The type of Linning used ducts if any.  b Type of lining used, if an insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided				
<ul> <li>The material used for construction of ducts and fittings.</li> <li>The type of Linning used ducts if any.</li> <li>Type of lining used, if any insulating any portion of duct, please also indicate the lagging is secured.</li> <li>If false ceiling is provided</li> </ul>	lly air	Required	Yes, building is centrally air conditioned	
fittings.  a The type of Linning used ducts if any.  b Type of lining used, if an insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided	nd !t-	NBC PART-8 Clause	GI Sheet	
ducts if any.  b Type of lining used, if an insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided		4.3.1.1		
b Type of lining used, if am insulating any portion of duct, please also indicate the lagging is secured.  c If false ceiling is provided		NBC PART-8 Clause 4.3.3.2	Acoustic insulation of nitrile rubber secured by an adhesive shall be installted inside the duct	
duct, please also indicate the lagging is secured.  c If false ceiling is provided	any for of the	NBC PART-8 Clause	Closed cell nitrile rubber secured by an adhesive	
c If false ceiling is provided	oto k -	4.3.3.2		
also informs - 11 1 10		NBC PART-4 Clause	Only non combustible material	
give information as at 43 above.	ed please	5.1.7		
d If plenum is used as retur passage has it been prote	ed please 13	NBC PART-4 Clause	Yes with fire dampers	
with fire detectors? Pleas	ed please 43 turn air	5.2.1		
e Has a separate AHU beer	ed please 43 turn air otected	NBC PART-4 Clause	Yes	
provided for each Floor?  f whether automatic shut do	ed please 43 turn air rotected ease give	3.4.11.4 Required	Yes, shall be provided.	
A.H.U been coupled with detection sys	ed please 43 turn air totected ease give een r?			
g Is the ducting for each flo	ed please 43 turn air rotected ease give een r? t down of		Yes, ducting for each floor effectively isolated	
effectively isolated or is it	ed please 43 turn air totected ease give een r? t down of system		,	
continuous on more than floors?	ed please 43 turn air otected ease give een r? t down of system floor is it	NBC PART-4 Clause 3.4.11.1		

S.No	DESCRIPTION	AS PER NBC	Proposed				
h	Is the fire dampers being provided?	Required	Yes, fire dampers shall be provided on supply air and return air duct.				
i	Where are the switchgear and						
	transformer located? If inside the building, please indicate.		In the First Basement				
44	If the switch gear and transformer(s) have been housed in separate compartments, effectively separated from each other and from other portions of the buildings by a four hour resistive wall?	Required	Switch gear and transformer(s) have been housed in separate compartments, effectively separated from each other and from other portions of the buildings by a two hour resistive wall.				
a) b)	What precautions have been taken to prevent a possible fire in the transformer (s) from spreading?	Required	Fire Extinguisher of Co2, type and Sand Buckets have been provided.				
45	Where electric cables, telephone cables, Dry/wet risers/ down comers pass through a floor or wall have spaces (apertures) round the cables/pipes been effectively sealed plugged with noncombustible, fire resistant material?	Required	Yes. Fire barrier are provided in wall & floor, wherever required.				
	Please indicate the number and type of fire extinguishers provided at various locations and arrangement for the maintenance of the extinguishers.	NBC Table-23 Clause 18.2.13.2	Fire Extinguishers have been prov locations complying to IS 15683. F date of filling	ire extinguishers are marked with			
46	Please indicate if all fire extinguishers bear the ISI certification mark.	Required	All fire extinguishers bear IS certificate				
47	Whether the refuge area has been provided ? If so, the	NBC PART 4 CLAUSE 4.12.3	Flo	or	Area (Sqm.)		
48	floor on which provided and the total area provided floor-	4.12.3	7TH I	Floor	24.22		1
49	wise.  Are the occupants of the building systematically trained in the fire prevention use of fire extinguishers and emergency procedures? If so, please give details.	Required	will be trained at the time of occupation				
	Does an emergency organization exits in the building? If so, please give details and append a copy of the emergency (fire) orders.  Has a qualified Fire Officer been appointed for the building - either individually or	Required  NBC PART-4 C-6	will be confirmed at the time occupation  Shall be appointed on completion of Project				
51	jointly with other building(s)  Is the building protected against lightning? If so, does the lightning protection conform to any code? Please indicate details.	NBC PART-8	Early streamer emission lightning protection provided as per NFC-17-102 code				
52 53	Ventilation a) Whether Natural ventilation is		The staircases are pressurised in	Basement 03level to Basement 01		 stalled in Basement 01 and on upper	 floors these staircases are natural
	relied upon? If so, give detail of the vents for the stairwell lift lobby and	NBC PART-4 Clause 3.4.12.2	Also one of the staircase is conn	ected from basement 03 to fifth floo		onsisting of axial flow fans at terrace	level and above the fifth floor this
	lift shaft b) Whether Mechanical ventilation has been proposed? If so give detail of the proposed system indicating the no. of air changers for the basement and upper floors.	NBC PART-4 Clause C- 1.6.4.2 & Clause 3.4.12.3	staircase is naturally ventilated  Mechnanical ventilation has been proposed in Basement 1, Basement 2 and Basement 3 by using direct driven axial flow fan. Providing normal ventilation @ 6 ACPH and in case of fire @ 12 ACPH.				
	c) Whether Mechanical ventilation is coupled with automatic alarm and detection system please give detail of the system.	NBC PART-4 Clause 3.4.12.1	Yes				
54	Whether Fire Movement road around the building has been provided/duly marked in the drawings.	NBC PART-4 Clause 4.6 c	YES				
54	Project Team		And the state of t				
		Fire & MEP Consultant	Architect	Owner			
	Name: Designation: Organization:	P K KALRA DIRECTOR C TO C SERVICES	ASHOK PANDIT CHIEF ARCHITECT				
	organization.	C TO C SERVICES  CONSULTANTS PVT  LTD.	ACPL DESIGN LTD.				
	Date:		12.06.17				