

PERFORMA FOR REVISED APPROVAL OF FIRE SCHEME

HARYANA FIRE SERVICE

QUESTIONNAIRE FOR HIGHRISE BUILDING

S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
1	Name of Building	Group Housing Colony area measuring 16.54 acres(license no. 67 of 2011 dated 16.07.2011), sector-77 Gurugram being developed by Janpriya Build Estate Pvt.Ltd. & Others C/o Umang Realtech Pvt.Ltd.		Group Housing Colony area measuring 4.035 acres (out of 16.54 acres of license no. 67 of 2011 dated 16.07.2011 granted to Janpriya Build Estate Pvt.Ltd.), sector-77 Gurugram being developed by Keystone World Pvt Ltd.	Joint Development and marketing rights for 4.035 acres (out of 16.54 acres of license no. 67 of 2011 dated 16.07.2011 granted to Janpriya Build Estate Pvt.Ltd.) granted to Keystone World Pvt Ltd vide endst no. LC-2384-JE (SB)-2023/39286 dated 16-11-23 of DTCP, Haryana
2	Classification of building	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram		3B Tower....Residential 4B Tower.....Residential Community Building....Assembly Religious Building.. (assembly) Convenient Shopping-1....Mercantile	Revised as per Joint Development and marketing rights for 4.035 acres (out of 16.54 acres of license no. 67 of 2011 dated 16.07.2011 granted to Janpriya Build Estate Pvt.Ltd.) granted to Keystone World Pvt Ltd vide endst no. LC-2384-JE (SB)-2023/39286 dated 16-11-23 of DTCP Haryana

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PROJECT ARCHITECT

RAJEEV KUMAR AGARWAL
ARCHITECT GAJ88/1191

S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
2	Address of Building	license no. 67 of 2011 dated 16.07.2011 sector-77 Gurugram		Convenient Shopping-2....Mercantile	No Change
3	Name and address of builder/promoter	Janpriya Build Estate Pvt.Ltd. & Others C/o Umang Realtech Pvt.Ltd. D-64, Block D, Defence Colony, New Delhi, Delhi 110049 FSD Gurugram	as per NBC Part-IV, revised 2016 FSD Gurugram	Keystone World Pvt Ltd 504, 5th floor, MVL I Park, Sector - 15 (II) Chandan Nagar, Gurugram-122001 FSD Gurugram	Revised as per Joint Development and marketing rights for 4.035 acres (out of 16.54 acres of license no. 67 of 2011 dated 16.07.2011 granted to Janpriya Build Estate Pvt.Ltd.) granted to Keystone World pvt Ltd vide endst no. LC-2384-JE (SB)-2023/39286 dated 16-11-23 of DTCP Haryana
4	Name and address of Owner / occupiers of individual flats	JANPRIYA BUILD ESTATE PRIVATE LIMITED Regd. Office: 41, Aurobindo Apartment, Adhchini, New Delhi 110016		JANPRIYA BUILD ESTATE PRIVATE LIMITED Regd. Office: 41, Aurobindo Apartment, Adhchini, New Delhi 110016	No Change

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ARCHITECT CA/88/11915



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5	Plot area	66934.998 (sqm)		66934.998 (sqm) (revised building plan submitted and approved for 14342.724(Sqm)	
6	Covered area (at grade Lvl of each Tower)	11611.739(Sqm)		11611.739(Sqm)	No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS (Fire NOC & OC Obtained for all except the Nursery school 1 & 2 which are yet to be constructed)
				3B Tower835.913 sqm	
				4B Tower792.355 sqm	
				Community Building.....784.920sqm	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
				Religious Building...17.64 sqm	
				Convenient Shopping-1....191.510 sqm	Already Sanctioned , however revised in revised approved plans
				Convenient Shopping-2....143.150 sqm	
7	Height of building				
	a. Overall height (from grade level)	Tower 1&4		Tower 1&4	
		Tower 2&3		Tower 2&3	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide
		Tower 5,7&9		Tower 5,7&9	
		Tower 6		Tower 6	
		Tower 8		Tower 8	



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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
		Tower 10&12		Tower 10&12	letter no ZP- 739/ JD (
		Tower 11		Tower 11	RD//2019/23968 dated 20.09.2019
		Community Building-1,2,3&4		Community Building-1,2,3&4	(except for Nursery school 1 &2,
		Nursery School 1&2 (mirror)		Nursery School 1&2 (mirror)	which are approved but are yet to
		EWS		EWS	be constructed)
		Convenient shopping-2		Convenient Shopping-2.....4.250m	Convenient shopping 2 Revised
		Convenient shopping-1...		Convenient Shopping-1.....4.250m	Convenient shopping 1 Revised
		Tower 13,14,15&16...63000mm		3B Tower....98.1m	Revised in place of Tower
				4B Tower....98.1m	13,14,15,16 in the new 4.035 acres
				Community Building.....7.35m	development
				Religious Building....8.4m	
		Tower 1&4		Tower 1&4	No change in tower 1 to 12,
		Tower 2&3		Tower 2&3	community building 1,2,3,4, EWS
		Tower 5,7&9		Tower 5,7&9	for which Fire NOC obtained vide
		Tower 6		Tower 6	memo no FS/2019/166 Dated
		Tower 8		Tower 8	05.07.2019 and OC obtained vide
		Tower 10&12		Tower 10&12	letter no ZP- 739/ JD (
		Tower 11		Tower 11	RD//2019/23968 dated 20.09.2019
		Community Building-1,2,3&4		Community Building-1,2,3&4	(except for Nursery school 1 &2,
		Nursery School 1&2 (mirror)		Nursery School 1&2 (mirror)	which are approved but are yet to
		EWS		EWS	be constructed)
		Convenient shopping-2...12050mm		Convenient Shopping-2.....4.250m	Convenient shopping 2 Revised
		Convenient shopping-1...4000mm		Convenient Shopping-1.....4.250m	Convenient shopping 1 Revised

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ARCHITECT CAJ/88/1915

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
		Tower 13,14,15&16...56600mm		3B Tower....91.8m 4B Tower....91.8m Community Building....7.35m Religious Building.... 4.2m	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
8	Number of basements (please indicate level below grade in each case)	1(-3350mm)		Community Building—2 Nos Basement 1=-3180mm Basement 2=-8300mm 3B Tower & 4B Tower—2Nos Basement1=-3900mm Basement2=-7800mm	These new basements are under new blocks and new community building. These are not connected to already constructed basements for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019. Basement 1 in community building has direct access via 2 steps of 150mm each along with a handicapped ramp to the fire tender path which sunk to - 3400mm level hence this is considered as lower ground floor.
9	Number of floors (including ground floor)	Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6		Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated

Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016

FSO Gurugram
Pun FSO Gurugram
D&T Gurugram



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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	Tower 8		certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram FSO Gurugram	Tower 8	05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
	Tower 10&12			Tower 10&12	
	Tower 11			Tower 11	
	Community Building-1,2,3&4			Community Building-1,2,3&4	
	Nursery School 1&2 (mirror)			Nursery School 1&2 (mirror)	
	EWS			EWS	
	Convenient shopping-2...G			Convenient Shopping-2....Ground floor	No Change in no of floors of convenient shopping
	Convenient shopping-1...G			Convenient Shopping-1....Ground floor	No Change in no of floors of convenient shopping
				3B TowerGround+25+Service Floor	Revised in place of Tower 13,14,15 & 16
	Tower 13,14,15&16...G+17			4B TowerGround+25+Service Floor	Basement 1 in community building has direct access via 2 steps of 150mm each along with a handicapped ramp to the fire tender path which sunks to - 3400mm level hence this is considered as lower ground floor.
10	Area of each basement			Community Building...Ground+basement 1+Basement 2	
		Basement Part-1...6144.708 sqm		Religious Building...Ground	No change Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide

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PROJECT ARCHITECT



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					letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019
				Community Building	These new basements are under new blocks and new community building. These are not connected to already constructed basements for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019.
				Basement 1= 864.27 sqm	
				Basement 2= 878.86 sqm	
				3B Tower & 4B Tower—combined Basement	
				Basement 1= 8046.019 sqm	Basement 1 in community building has direct access via 2 steps of 150mm each along with a handicapped ramp to the fire tender path which sunks to - 3400mm level hence this is considered as lower ground floor.
				Basement 2= 7322.571 sqm	
11	If basement extends beyond the building line, please indicate	45 Ton	45 Ton	45 Ton	No change Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide

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	the load bearing strength of the roof of basement				letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019
12	Covered area of typ. Floors	Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2		60 Ton Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 &2, which are approved but are yet to be constructed)
		EWS & Convenient shopping-2767.431sqm	as per N.B.C. Part-IV, revised 2015 Certified that fire Fighting Service is provided as per N.B.C. Part-IV, revised 2015	Convenient Shopping-2....143.150 sqm	Revised Convenient shopping 2
		Convenient shopping-1334.675 sqm	FSO Gurugram Gurugram	Convenient Shopping-1....191.510 sqm	Revised Convenient shopping 1
		Tower 13,14,15&16		Community Building--- Ground Floor=554.91 sqm	

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ARCHITECT CAJ68/1/915

PROJECT ARCHITECT

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13		i)Ground Floor307.307 sqm	Carried that the Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram FSO Gurugram	3B Tower	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
		ii)Typical floor(1st to 11th)& (13th to 17th) *16....6133.206 sqm		Typical Floor: (1st to 17th and 19th to 25th floor) = 539.686 sqm	
		iii)12th Floor220.427sqm		Refuge Floor: (18th floor) = 521.567 sqm	
				4B Tower	
				Typical Floor: (1st to 17th and 19th to 25th floor) = 480.238 sqm	
				Refuge Floor: (18th floor) = 480.238 sqm	
				Religious Building...17.64 sqm	
	Occupancy	For Tower 1-12 , Community, EWS , Nursery school, Convenient shopping			
	Sanctioned	a)All Floor of all Tower Types...Residential		a)All Floor of all Tower Types...Residential	
	1. Base ment	b)Basements....Parking & Services		b)Basements....Parking & Services	
	2. Ground	c)Pre-Nursery School...Educational	Letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)	c)Pre-Nursery School...Educational	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
	3. Upper Floor	d)Convenient Shopping...mercantile		d)Convenient Shopping...mercantile	
		e)Community Building...Assembly		e)Community Building...Assembly	
	Actual			Community Building	

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ARCHITECT CA/88/11915

PROJECT ARCHITECT

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1.	Basement	For Tower 13,14,15,16, , Community, Convenient shopping		Basement 2---Services	
2.	Ground	a)All Floor of all Tower Types...Residential		Basement 1 ---Services& Assembly	
3.	Upper Floor	b)Basements....Parking & Services		GroundAssembly	
		c)Pre-Nursery School...Educational		3B Tower &4B Tower	Revised in place of Tower 13,14,15 & 16 and New community building has been added as per revised approved plans
		d)Convenient Shopping...mercantile		Basement---Parking & Services	
		e)Community Building...Assembly		Stilt ...Parking & Services	
				Typical FloorResidential	
				Service floor - Only for building services	
				Religious Building	
				Ground ...	
14	Parking areas	a)Covered ECS provided at Basement Level		a)Covered ECS provided at Basement Level	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
		b)Open ECS provided at Site Level		b)Open ECS provided at Site Level	
		c)Open ECS provided at site Level		c)Open ECS provided at site Level	
		d)Total		d)Total	
		e)Total ECS provided for EWS(5% of Total Car Parking)		e)Total ECS provided for EWS(5% of Total Car Parking)	
				a)Open Parking54	



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ARCHITECT CAJ88/1915

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15	Details of surrounding property / features Compass directions in relations to the building North South East West	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram FSO Gurugram		b) Covered Parking...398	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
16	Approach road to the building, width of road & connecting roads if any	24m wide road		Emaar Palm hills – Residential project Winter Hills phase 1 – Residential project Others land Others land 24m wide road	Revised as per the 4.035 acre development plan No Change

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ARCHITECT CA/88/1915

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17	Please give details of water supply available exclusively for firefighting.		Requirement as per NBC-2016, Part-4, Table-7:		
	a. Underground Fire Reserve	Underground Fire Tank...75KL Certified that fire Fighting System is as per N.B.C. Part-IV, revised 2 hydrants FSO Gurugram DOA Gurugram	UGT - 2,00,000 ltr. (For less than 100 hydrants)	Underground Fire Tank...75KL	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
	b. Over Head Fire Reserve	a) Tower 1&4 b) Tower 2&3 c) Tower 5,7&9 d) Tower 6 e) Tower 8 f) Tower 10&12	OHT - 10000 ltr for Towers, 25000 ltr for community Building & 5000 ltr each for	UGT - total 3,50,000 Ltr (2,00,000 Ltr for hydrants(internal 75 nos & external 20 nos)) and 1,50,000 Ltr for water curtain requirement a) Tower 1&4 b) Tower 2&3 c) Tower 5,7&9 d) Tower 6 e) Tower 8 f) Tower 10&12	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (

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ARCHITECT CA/88/1.815
PROJECT ARCHITECT

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		g) Tower 11	Convenient Shopping 1 & 2	g) Tower 11	RD/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
		h) Community Building		h) Community Building	
		i) Nursery School 1 & 2		i) Nursery School 1 & 2	
		j) EWS & Convenient Shopping-2		j) EWS	
		k) Convenient Shopping-1			
		l) Tower 13, 14, 15 & 16... 10KL in each building	Certified that fire Fighting is as per N.B.C. Part IV, revised 2016	Tower 3B - 10 KL	Revised in place of Tower 13, 14, 15, 16 in the new 4.035 acres development
				Tower 4B - 10 KL	
				Community Building - 25 KL	
				Convenient Shopping 1 - 5 KL	
				Convenient Shopping 2 - 5 KL	
18				150 mm dia one in each Tower	No Change



 FSO - Gurugram

 Certified that fire Fighting is as per N.B.C. Part IV, revised 2016



 Gurugram

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	Has wet risers (s) been provided? If so, please indicate the number of risers and internal dia of each.	Yes Proposed ,150 mmdia one in each Tower	Required 100mm dia. for up to 30 mtr. height & above 30m height 150mm dia required as per NBC-2016, Part-4, Table-8	Provided: 1.Tower 3B (i) Hydrant risers -3 nos. 1 no. for Low Zone-Basement-2 to 6th Floor, 1 no. for Middle Zone-7th Floor to 16th floor 1 no. for High Zone-17th Floor to Terrace (ii) Sprinkler risers- 3 nos. 1 no. for Low Zone-Basement-2 to 6th Floor 1 no. for Middle Zone-7th Floor to 16th floor 1 no. for High Zone-17th Floor to Terrace. 2.Tower 4B (i) Hydrant risers -3 nos. 1 no. for Low Zone-Basement-2 to 6th Floor 1 no. for Middle Zone-7th Floor to 16th floor 1 no. for High Zone-17th Floor to Terrace.	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development


 Certified that the Fighting Scheme is as per N.B.C. Part-IV, revised 2016
 FSO
 Gurugram
 9/7/16

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				(ii) Sprinkler risers- 3 nos. 1 no. for Low Zone-Basement-2 to 6th Floor 1 no. for Middle Zone-7th Floor to 16th floor 1 no. for High Zone-17th Floor to Terrace 3. Basement- (i) Hydrant risers -8 nos.(Basement-2 to Basement-1) (ii) Sprinkler risers- 8 nos.(Basement-2 to Basement-1) Size of each riser= 150 mm internal dia. Community building - Not required, however provided	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram Jul 2017 DB(T) Gurugram
19	Has any dry rise been provided? if so, please give details	Not Proposed	Not required as per NBC-2016, Part-4, Table-7	Not provided	No change
20	Has any down comer been provided? If so,	Provided 100mm dia downcomer in EWS & Convenient Building 1, Convenient Building 2, Community	required as per NBC- 2016, Part-4, Table-7	Provided 100mm dia downcomer in & Convenient Building 1, Convenient Building 2,	No change

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	please give details.	Building 1,2,3&4 & Nursery School 1&2		Community Building 1,2,3&4 & Nursery School 1&2	
				Provided for Community Building.-100 mm dia -1 no. (B2+B1+GF)	Provided in the new community building of the proposed new 4.035acre development
21	Please indicate the present arrangement for replenishment of water for fire fighting	Replenishment has been made by increasing fire tank capacity by 100KL	Replenishment by mains of alternative source of supply at the rate of 1000 L/min for underground static tank	Yes, Proposed Govt Supply/ Water Tanker Supply	Revised
22	Is a public or other water storage facility available nearby?	Certified that fire Fighting Scheme is as per N.B.C. Part IV, revision 2016 Not known <i>[Signature]</i> FSD Gurugram		UGT and OHT available in the existing development for which OC has already been obtained	Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019
23	Please give any other information that you can, regarding availability of water supply for firefighting	Proposed -Raw water & Domestic Water Tank can be used in case of Emergency <i>[Signature]</i> Gurugram FSD Gurugram	N/A	Domestic Raw water tank 90KL & Domestic treated water tank 90 KL shall be used in case of emergency	No change
24					No change

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	Have internal hydrants been provided? if so, please indicate.	yes single Hydrant has been proposed on each floor of tower	Requirement as per NBC-2016, Part-4, Table-7:	Single Hydrant has been proposed on each floor of tower Yes, Provided on all floors and terrace.	
	a. No. of hydrants and dia on each floor including basement(s)	Basement = 26Nos., One No in each Floor of each Tower, Two no. in each Floor of EWS, One no. in each Floor of Convenient Buildings, Community Building, Nursery School		Basement = 26Nos., One No in each Floor of each Tower, Two no. in each Floor of EWS, One no. in each Floor of Convenient Buildings, Community Building, Nursery School	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
		1 per 1000 sq. Mtr. Certified that fire Fighting Scheme as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram		1. Tower 3B- Stilt Floor to terrace-1 no. on each floor = 28 nos. 2. Tower 4B- Stilt Floor to terrace-1 no. on each floor = 28 nos. 3. Basement-1 (Under Tower 3B & 4B)-8 nos. Basement-2(Under Tower 3B & 4B)-8 nos. 4. Community Building Basement 2 - 1 no basement 1 - 1 no Gr. Floor - 1 no Total= 75 nos. (Wet riser in community building	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
				not required but provided wet riser & Downcomer both) 150 mm dia. on each floor and terrace	
	b. Have these hydrants single or twin outlets	Single Outlet hydrant at each floor of each Building	Single outlets	Single outlets	No change
25	Have first a/c hose reels been provided? If so, please indicate	Yes, Proposed	Required as per IS 884-1985	Provided on each floor & Terrace	
	a. No. of Hose reels on each floor	Basement = 26Nos., One No in each Floor of each Tower, Two no. in each Floor of EWS, One no. in Floor of Convenient Buildings, Community Building, Nursery School		Basement = 26Nos., One No in each Floor of each Tower, Two no. in each Floor of EWS, One no. in each Floor of Convenient Buildings, Community Building, Nursery School	No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019
	Including basement(s)	Certified that fire Fighting Schemes per FHC as per NBC, Part-IV, revised 2016 FSO Gurugram FSC Gurugram		1.Tower 3B- Stilt Floor to terrace-1 no. on each floor = 28 nos. 2.Tower 4B- Stilt Floor to terrace-1 no. on each floor = 28 nos. 3. Under Tower 3B & 4B Basement- 4-8 nos. Basement-2-8 nos. 5.	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
				Community Building Basement 2 Floor - 1 no Basement 1- 1 no Gr. Floor - 1 no 4. Convenient Shopping-1- Gr. Fl.-1 no. 5. Convenient Shopping-2- Gr. Fl.-1 no. Total= 77 nos.	
	b. Bore and length of hose reel tubing on each reel	20mm diameter , 30 meter long	Not less than 19 mm.	20 mm dia. 36.5 meter length	-
	c. Size(bore) and type of nozzle fitted to each hose reel	5mm, Shut Off Type	Not less than 6 mm bore	6 mm shut off nozzle	-
	d. If the hose reel connected directly to the riser or to the hydrant outlet?	Yes ,Proposed directly to the riser	To be connected directly to riser	Connected directly to riser	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram Gurugram
26	Has fire hose been provided near each Hydrant , If so, please indicate	yes ,Proposed	Required	Provided	FSO Gurugram Gurugram

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499...dt....26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	a. The type of hoses	yes, Proposed RRL type	N/A	RRL type - a	-
	b. The size(bore) of hoses	63 mm Dia	63mm required	63mm provided	-
	c. The length of each hose	15m Long	15 meter	15 meter	-
	d. Total No. of hoses provided near each hydrant	2Nos ,Hose for each Hydrant	2 nos. required	Provided 2 nos.	Confirmed that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016
27	Have branch pipes been provided? If so, please indicate.	yes Proposed	Required	Yes provided	FSO Gurugram - DBM Gurugram
	a. The type of branch pipe	Short branch type	N/A	As per IS:903 gun metal provided	-
	b. Size of nozzle fitted to each pipes	63 mm dia & 20mm Nozzle	20 mm	20 mm	-
28	If the basement is used for car parking or storage, has it	Sprinkler System Provided	Required	Sprinkler System Provided	-
				Yes, sprinklers have been provided with K-Factor of 80 in basement	Revised for the New basements proposed in the new 4.035 Acre development

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499...dt....26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	been sprinklered?				
29	Weather separation/compartmentation of the basement & upper floors has been provided. f so give detail		Water curtain in basements	Basements have been divided in 3 zones as water curtain type compartmentation with K factor 58 & also with solid wall in some areas	No Change Revised for the New basements proposed in the new 4.035 Acre development
30	Is the building equipped with automatic fire detection and alarm system? : so, please indicate -	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016. FSD Gurugram FSD Gurugram	(As per NBC, 2016 part-4, table-7)	Yes, building equipped with fire detection & alarm system	Revised for the New Towers 3B & 4B in place of Tower 13,14,15,16, Basements under new towers and new community building

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
a)	The type of detectors used			Smoke Detectors / Heat Detectors / Multi Detectors /Multi criteria detectors used 1.Tower 3B-Typical, Refuge & Service Floors - Smoke Detector in Flats & Lobby Areas, Heat Detectors in Kitchen, Multi detector in Electrical Shaft 2.Tower 4B- Typical, Refuge & Service Floors - Smoke Detector in Flats & Lobby Areas, Heat Detectors in Kitchen, Multi detector in Electrical Shafts 3. Basement-1- Smoke Detector in Lobby , Common Rooms & Toilets, Multi detector in Electrical Shafts , Heat Detector & Multicriteria Detector in Parking Areas, Heat Detector in DG Area, Multi detectors in Pump Room 4. Basement-2-Smoke Detector in Lobby , Common Rooms & Toilets, Multi detector in Electrical Shafts , Heat Detector & Multicriteria Detector in Parking Areas, Heat Detector in DG Area, Multi	 Rajeev Kumar Agarwal Gurugram Certified that the Fighting Scheme is as per N.B.C. Part-IV, revised 2016

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499....dt...26/09/12.....	Requirement as Per NBC - 2016	Proposed	Remarks
				detectors in Pump Room 5. Community Building - Multi Detectors in Pump Room, Smoke Detectors in Lobby, Multi Purpose Halls, Gym & Change Rooms	
	b) The standard to which the detectors conforms		Required Smoke & Heat Detector	IS 2189:2008 Smoke detectors as per IS 11360-1985 and Heat detectors as per IS 2175-1988	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 [Signature] FSO Gurugram [Signature] FSO Gurugram
31	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.	yes, Break glass type manual call points shall be provided at each floor near exit point and other suitable location	Required as Per NBC part -4 chapter 6.4.8.5. and Table 23	Yes provided. At all Exit staircases in basements & all typical floors corridors near staircases 1.Tower 3B- 58 Nos, 2.Tower 4B- 57 Nos, 3. Basement-1- 11 Nos 4. Basement-2-13 Nos. 5. Community Building- 11 Nos	Revised for new towers 3B & 4B in place of Tower 13,14,15,16 in the new 4.035 acre development

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S.NO.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499...dt...26/09/12.....	Requirement as Per NBC - 2016	Proposed	Remarks
32	Has a public address system been installed in the building with loud speakers on each floors	yes, Proposed	Required	PA System provided on each floor. PA Panel Provided on Stilt Floor 1.Tower 3B- Wall Speaker 65 Nos, 2.Tower 4B- Wall Speaker 61 Nos, 3. Basement-1- Wall Speaker 32 Nos 4. Basement-2-Wall Speaker 35 Nos. 5. Community Building- Wall Speaker 5 Nos, Ceiling Speaker 42 Nos	Revised for new towers 3B & 4B in place of Tower 13,14,15,16 in the new 4.035 acre development
33	Has an intercom system been provided between the various floors and the fire control room in the entrance lobby.	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 yes, Provided FSO Gurugram FSD Gurugram	Required	Yes, Provided on all floors along with connectivity with FCC Room at Stilt Floor. 1.Tower 3B- 59 Nos, 2.Tower 4B- 59 Nos, 3. Basement- 1- 4 Nos 4. Basement-2-4 Nos. 5. Community Building- 3 Nos	Revised for new towers 3B & 4B in place of Tower 13,14,15,16 in the new 4.035 acre development
34	Has a fire control room been provided in the entrance lobby of the building	yes proposed	Required as per NBC Part-4 annex C-5 and NFPA -72 Chapter 6.9.9	Yes- Fire control room provided at Stilt Floor in Tower 3B of .4.27 X 5.1 dimension = 21.75sqm area	Revised for new towers 3B & 4B in place of Tower 13,14,15,16 in the new 4.035 acre development
35	How many Staircases have	Tower 1&4 Tower 2&3 Tower 5,7&9		Tower 1&4 Tower 2&3 Tower 5,7&9	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide



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S.NO.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	been provided in the building?	Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2 EWS Convenient shopping 1 - No staircase Convenient shopping 2 - No staircase Tower 13,14,15&16...2Nos		Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2 EWS Convenient shopping 1 - No staircase Convenient shopping 2 - No staircase Community building-2Nos Tower 3B-2Nos Tower 4B-2Nos	memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 &2, which are approved but are yet to be constructed) Revised for new towers 3B & 4B in place of Tower 13,14,15,16 in the new 4.035 acre development
	a. The width of the Stairway	Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2 EWS Certified that Fire Fighting Scheme is as per NBC-2016 Part IV, revised 2013 FSO Gurugram FSO Gurugram	Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2 EWS	Tower 1&4 Tower 2&3 Tower 5,7&9 Tower 6 Tower 8 Tower 10&12 Tower 11 Community Building-1,2,3&4 Nursery School 1&2 EWS	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 &2, which are approved but are yet to be constructed)

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ARCHITECT CA/88/1/915
PROJECT ARCHITECT

S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
		Convenient shopping-1... No staircase		Convenient shopping-1... No staircase	
		Convenient shopping-2... No staircase		Convenient shopping-2... No staircase	
		Tower 13,14,15&16...ST01...1000mm , ST01...1450mm	3B Tower—1.25m	3B Tower—1.25m	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
			4B tower —1.25m	4B tower —1.25m	
			Community building—2m	Community building—2m	
b. The width of Treads	Tower 1&4			Tower 1&4	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 &2, which are approved but are yet to be constructed)
	Tower 2&3			Tower 2&3	
	Tower 5,7&9			Tower 5,7&9	
	Tower 6			Tower 6	
	Tower 8			Tower 8	
	Tower 10&12			Tower 10&12	
	Tower 11			Tower 11	
	Community Building-1,2,3&4			Community Building-1,2,3&4	
	Nursery School 1&2			Nursery School 1&2	
	EWS			EWS	
	Convenient shopping-1... No staircase			Convenient shopping-1... No staircase	
	Convenient shopping-2... No staircase			Convenient shopping-2... No staircase	

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
		Tower 13,14,15&16...ST01..275mm , ST01..275mm	3B Tower—300 mm	3B Tower—300 mm	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
			4B tower —300 mm	4B tower —300 mm	
			Community building—300 mm	Community building—300 mm	
c. The height of risers	Tower 1&4			Tower 1&4	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
	Tower 2&3			Tower 2&3	
	Tower 5,7&9			Tower 5,7&9	
	Tower 6			Tower 6	
	Tower 8			Tower 8	
	Tower 10&12			Tower 10&12	
	Tower 11			Tower 11	
	Community Building-1,2,3&4			Community Building-1,2,3&4	
	Nursery School 1&2			Nursery School 1&2	
	EWS			EWS	
	Convenient shopping-1... No staircase			Convenient shopping-1... No staircase	
	Convenient shopping-2... No staircase			Convenient shopping-2... No staircase	
	Tower 13,14,15&16...ST01..180.5mm , ST01..162.5mm		3B Tower—150 mm	3B Tower—150 mm	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
			4B tower —150 mm	4B tower —150 mm	

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S.NO.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
			Community building—150 mm	Community building—150 mm	Confirmed that the Fighting Scheme is as per NBC, Part-IV, revised 2016
	d. If the treads are of non-slip type			Yes. Tiles with built-in non slip grip will be provided	FSO (Gurugram) FSO (Gurugram)
36	What is the average occupant load per floor?	Tower 1&4	5 person per unit	Tower 1&4	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 &2, which are approved but are yet to be constructed)
		Tower 2&3	5 person per unit	Tower 2&3	
		Tower 5,7&9	5 person per unit	Tower 5,7&9	
		Tower 6	5 person per unit	Tower 6	
		Tower 8	5 person per unit	Tower 8	
		Tower 10&12	5 person per unit	Tower 10&12	
		Tower 11	5 person per unit	Tower 11	
		Community Building-1,2,3&4	3sqm per person	Community Building-1,2,3&4	
		Nursery School 1&2	2 person per unit	Nursery School 1&2	
		EWS	4sqm per person	EWS	
		Convenient shopping -110	3sqm per person	Convenient Shopping-1....64 Nos. Convenient Shopping-2....48 Nos	
		Tower 13,14,15&16...128 person per floor	12.5 sqm per person	3B Tower—44 Nos.	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
			12.5 sqm per person	4B Tower---39 Nos	
			1.8 sqm per person	Community building...113 Nos	

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S.NO	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no....2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
37	How many lifts have been installed in the building?	2 Nos in each Tower Certified that fire Fighting Scheme as per N.B.C. Part-IV, revised 2016 FSD Gurugram FSD Gurugram FSD Gurugram	1.4 sqm per person	Religious Building... 13 Nos 2 Nos in each Tower Community Building—1 Nos. 3B Tower—4Nos 4B Tower—4Nos	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed) Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
	Please indicate in each case – a. The floors between which the lift runs	Basement to Top Floor		Basement to Top Floor	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019

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S.N.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
				Community Building—Basement 2 to Ground floor	(except for Nursery school 1 & 2, which are approved but are yet to be constructed)
				3B Tower—basement2 to Terrace	Revised in place of Tower 13,14,15,16 in the new 4.035 acres development
				4B Tower— basement2 to Terrace	
	b. The type of doors fitted to the lift car and at each landing.	Automatic ,2 panel & Centre Opening		Stainless steel	-
	c. Fire resistance rating of lift car and landing doors, if known	Lift car 2hrs and Landing Door 1hrs		Lift car 2hrs and Landing Door 1hrs	-
	d. Floors area of the lift car	a)Tower- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15& 16 Lift 1 b)Tower- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15& 16 Lift -2 (Type A) c)Tower- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15& 16 Lift -2(Type B)	1 Hour 2.35 Sqm	1 Hour 2.50 Sqm	Revised for new Tower 3B & 4B in the new 4.035 acres development No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to

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PROJECT ARCHITECT

S.N.C.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	e. Loading capacity of the lift car.	a) Tower- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15& 16 Lift 1 b) Tower- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15& 16 Lift -2 (Type A) c) Tower- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15& 16 Lift -2 (Type B)	1020 kg	1020 kg -- 16 Passengers Certified that fire Fighting Scheme is as per H.B.C. Part IV, revised 2015 A - FSO Gurugram - Gurugram	be constructed) Revised for new Tower 3B & 4B in the new 4.035 acres development No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed) Revised for new Tower 3B & 4B in the new 4.035 acres development
	f. Has communication system been installed in the lift car.	Yes, proposed		Yes	
		Yes, Proposed			

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	g. Has a fireman's switch been installed in the lift for grounding it in the event of a fire?		Yes		
38	Have any stationary fire pumps(s) been installed for pressurizing the wet riser? If so, please indicate	Yes, Proposed	Requirement as per NBC-2016, Part-4, Table-7 & as per IS:15105-2021	Provided in the fire pump room at basement of Community Building	Verified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSD Gurugram DD(F) Gurugram
	a. Number of pumps	Pump Room -1	Required as per NBC-2016, Table-7, Residential Building (A), Sl no. (C) 5	Pump Room -1	No change in tower 1 to 12, community building 1,2,3,4, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 (except for Nursery school 1 & 2, which are approved but are yet to be constructed)
		Electrical Pump	Total no. of pumps = 6 nos. (Pumps for hydrant & sprinklers are multi-outlet pumps)	Electrical Pump	

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		Diesel Pump	1. Main Electrical Hydrant Pump-1 no.	Diesel Pump	
		Jockey Pump	2. Main Electrical Sprinkler Pump-1 no.	Jockey Pump	
		Pump Room -2	3. Electrical Jockey Pump for Hydrant-1 no.	Pump Room -2	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016
		Electrical Pump	4. Electrical Jockey Pump for Sprinkler-1 no	Electrical Pump	FSO Gurugram
		Diesel Pump	5. Standby Diesel Pump for Hydrant & Sprinkler-1 no.	Diesel Pump	FSO Gurugram
		Jockey Pump	6. Electrical Water Curtain Pump -1 no.	Jockey Pump	FSO Gurugram
				Actual Hydrant no : 97	
				Total no. of pumps = 6 nos.	
				(Pumps for hydrant & sprinklers are multi-outlet pumps)	
				1. Main Electrical Hydrant Pump-1 no.	
					Revised in place of Tower 13,14,15,16 in the new 4.035 acres development

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				2. Main Electrical Sprinkler Pump- 1 no.	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram 20/09/2019 No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019
				3. Electrical Jockey Pump for Hydrant-1 no.	
				4. Electrical Jockey Pump for Sprinkler-1 no	
				5. Standby Diesel Pump for Hydrant & Sprinkler-1 no.	
				6. Electrical Water Curtain Pump - 1 no.	
	b. The size of suction and delivery connections of each pump	250/150 for Hydrant /Sprinkler/Water Curtain, 100/80 for Jockey, 250/150 for Diesel	Not Mentioned.	Main Suction header - 300 mm	
				Main Delivery header- 250 mm	
				Main Sprinkler Pump (S x D)-200 x 150 mm	
				Main Hydrant Pump (S x D)-200 x 150 mm	
				Diesel Pump (S x D) -200 x 150 mm	
				Jockey Pump (S x D)- 80 x 65 mm	
				Water Curtain Pump (S x D)-200 x 150 mm	

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	c. The output of each pump	Pump Room -1 3 Nos. Electrical Pump...2280 LPM 1 Nos. Diesel Pump...2280 LPM 1 Nos. Jockey Pump...180 LPM Pump Room -2 3 Nos. Electrical Pump...2280 LPM 1 Nos. Diesel Pump...2280 LPM 1 Nos. Jockey Pump...180 LPM	Main fire pump 2850 lpm, diesel pump 2850 lpm , jockey pump 180 lpm & water curtain pump 1620 lpm required as per N.B.C. Part-IV, revised 2016	Main Hydrant /Main sprinkler pump - 2850 lpm Diesel pump -2850 lpm jockey pump - 180 lpm each. Water Curtain Pump -1620 LPM Verified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram Gurugram	No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019 Revised for Basements under Tower 3B & 4B (in place of Tower 13,14,15,16) water curtain pump-1620 lpm
	d. The maximum head against which the pump can operate at the output Pressure mentioned at (c)	120 m	Minimum pressure 3.5 kg/cm2 at remotest location	100 mtr. head for Low Zone (Upto 6th floor), 140 mtr. head for Middle Zone (6th to 16th floor) & 175 mtr. Head for High Zone (upto Terrace) and 60 mtr. Head for water curtain pump as per building requirement	Revised for Tower 3B & 4B in place of Tower 13,14,15,16
	e. Is the pump automatic in action?	yes, Automatic	Required	Yes, pumps are automatic in action	No change
39		yes, 100% backup through generator			

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
	Has a standby source of power supply been provided? If it is through a generator, please indicate		Yes		
	a. The capacity (output)	100% DG Backup		100% DG Backup	No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019
				100% DG Backup with 1 No of 1000 KVA & 500KVA Air Cooled DG Set	Revised for Tower 3B & 4B in place of Tower 13,14,15,16 in new 4.035 acres development

Certified that fire Fighting Schematic as per NBC Part-IV, revised 2016

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	b. The functions that can be maintained simultaneously by the use of generator, such as operating lift(s), fire pumps, emergency lighting etc.	100% backup for Lifts, Fire Pumps and Emergency Lighting etc		100% backup for Lifts, Fire Pumps and Emergency Lighting etc	
	c. Is the generator automatic in action or has to be started manually ?	Automatic		Automatic as well as manual	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSD Gurugram FSD Gurugram
40	Has any yard hydrant been provided from the building's fire pump	Yes, Proposed (46Nos) at 45 mts distance	Requirement as per NBC-2016, Part-4, Table-7	Yes, Proposed (46Nos) at 45 mts distance	No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019

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41	Where more than one lifts are installed in a common enclosure, have individual lifts been separated by fire resisting walls of two hours fire rating?	yes Proposed	Required	Provided Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSD Gurugram Gurugram	Revised for Tower 3B & 4B in place of Tower 13,14,15,16 in new 4.035 acres development
42	Has the lift shaft(s) lift lobby or stair wall been pressurized?	Lift shafts are pressurized at 50 Pa, Basement staircase are pressurized at 50 Pa & Basement lift lobby are pressurized at 30 Pa & Lift lobby on upper Floor are open	Required	Provided No change in tower 1 to 12, community building 1,2,3,4, Nursery school 1 & 2, EWS for which Fire NOC obtained vide memo no FS/2019/166 Dated 05.07.2019 and OC obtained vide letter no ZP- 739/ JD (RD)/2019/23968 dated 20.09.2019	Revised for Tower 3B & 4B in place of Tower 13,14,15,16

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S.No.	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
				Table 6 (Clauses 4.4.2.5 (b) & E-2, 3B Tower- 2 Nos of Fire Lift & 2 Nos of Passenger lift. All the lift wells are pressurized at 50 Pa through axial fans placed on mummy level. 4B Tower - 2 Nos of Fire Lift & 2 Nos of Passenger lift. All the lift wells are pressurized at 50 Pa through axial fans placed on mummy level. Community Building - Not required as per NBC- 2016, Part-4, Table 6 (Clauses 4.4.2.5 (b) & E-2 Staircase- As per NBC- 2016, Part-4, Table 6 (Clauses 4.4.2.5 (b) & E-2 Enclosed Staircases (Internal Staircases not with external wall) shall be pressurized at 50 Pa and for Internal Staircases with external wall, cross ventilation shall be provided with 0.5 sqmt clear opening for louvers. 3B Tower- ST-01 & ST-02 is pressurized at 50 Pa from lower	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram FSO Gurugram FSO Gurugram

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				basement upto terrace level through separate axial fans placed on mummy level. <u>4B Tower</u> - ST-03 is pressurized at 50 Pa from lower basement upto terrace level through axial fans placed on mummy level. ST-04 is pressurized only in lower and upper basement through axial fan place on stilt level. However, above from stilt upto terrace level cross ventilation shall be provided through louvers. Community Building - Not required as per NBC- 2016, Part-4, Table 6 (Clauses 4.4.2.5 (b) & E-2 <u>Lift Lobby</u>- Yes provided, Enclosed Lift lobbies shall be pressurized at 25 Pa as per NBC-2016, Part-4, Table 6 (Clauses 4.4.2.5 (b) & E-2. <u>3B Tower</u>- Lobby is pressurized at 25 Pa from lower basement upto terrace level through axial fan placed on mummy level. <u>4B Tower</u>- Lobby is pressurized at	Confirmed that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2018 FSO Gurugram FSO Gurugram Defn Gurugram

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43	Have the lift lobbies and staircases been effectively enclosed to prevent fire/smoke entering them from outside at any floor ?			25 Pa only upper and lower basement through axial fan which is placed on mummy level. Above ground cross ventilation shall be provided through louvers with clear area of 0.5 sqmt . Community Building- Basement lobbies are pressurized Lift lobbies of both the towers 3B & 4B are Enclosed in basement whereas no lift lobbies pressurization are required on upper floors except fire tower as they are cross ventilated. ST 01 & ST 02 Staircases of 3B Tower & ST 03 staircase of 4B Tower on all floors are enclosed through fire doors.	Confirmed that Fire Fighting Scheme is as per NBC Part-IV, revised 2016 FSO Gurugram FSO Gurugram FSO Gurugram
44	Have all exits and directions of travel to each exit been sign posted with illuminated signs?	yes, Proposed		yes	



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45	Has a false ceiling been provided in any Public portion of the building ?if so, please indicate location, Gap, Fire system above false ceiling and also mention if the material used for the false ceiling is combustible on non-combustible			Non -Combustible-False ceiling is provided only in some areas of community building with gap between ceiling and false ceiling being less than 800mm. If at any stage the gap is more than 800mm then we will provide upright sprinklers and detectors.	Certified that Fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSD Gurugram Gurugram
46	Is the building centrally air conditioned?	N/A		No, centralized air conditioning system is not provided. VRV air conditioning has been proposed for the Community Building and Stilt floor of Residential Towers (3B & 4B).	Revised for new tower 3B & 4B in place of Tower 13,14,15,16 FSD Gurugram Gurugram
	a. The material used for construction of	N/A	Non Combustible material	G.I. sheet	-

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	ducts and its fittings.				
	b. The type of tinning used for ducts if any.	N/A	Non Combustible material	Galvanizing	-
	c. Type of lagging used, if any for insulating any portion of the duct, please also indicate how the lagging is secured.	yes, Proposed	Insulation shall be provided wherever lagging used	Closed cell elastomeric nitrile rubber insulation with fire retardant class 'O' properties. The joints of insulation would be secured with class O tape of same material. As per BS 476 material shall be fixed to the ducts with fire retardant adhesive.	-
	d. If false ceiling is provided please give information as at 43 above.	N/A		False ceiling is provided only in some areas of community building with gap between ceiling and false ceiling being less than 800mm. If at any stage the gap is more than 800mm then we will provide upright sprinklers and detectors.	certified that fire Fighting Scheme is per N.B.C. Part-IV, revised 2016 FSO Gurugram
	e. If plenum is used as return air passage has it been protected with fire	N/A	As per NBC 2016 Part-4,(3.4.8.2)	No plenum is used as return air passage.	FSO Gurugram

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	detectors? Please give details				
	f. Has a separate AHU been provided for each Floor ?	N/A	As per NBC 2016 Part-4 Fire & life Safety, (3.4.8.2.2)	Yes, separate VRV compatible Indoor units have been provided for Community building & Stilt floor of Tower 3A & 4B .	
	g. Is the ducting for each floor effectively isolated or is it continuous on more than on floors ?	N/A	Isolation required	Yes, separate ducting for each floor is provided. No duct is crossing the floors and is effectively isolated.	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016
47	Where are the switchgear and transformers located, If inside the building, please indicate.	2X1000 KVA Oil type transformer are located in the Site Plan		Transformer: Located Outside 6 m away from convenient shopping building HT Switch Gear: Located Outside in HT Panel Room and 6 m away from convenient shopping building LT Switchgear: Located in Basement 1 under 3B & 4B tower DG room : Double height room located in the basement 2 of 3B &	Revised for new tower 3B & 4B in place of Tower 13,14,15,16

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				4B tower with direct access from ground level	
	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?	Yes, Proposed		N/A	
	a. From each other and from other portions of buildings by a four hours fire resistive wall.	N/A		N/A	
	b. What precautions have	CO2 gas suppression system is being provided for fire fighting		1. Transformer Room : DCP Trolley mounted mobile fire	

Certified that Fire Fighting Scheme is as per N.B.C. Part IV, revised 2016

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	been taken to prevent a possible fire in the transformer(s) from spreading			extinguisher- 25 kg - 1 no. , Dry CO2 Trolley mounted mobile fire extinguisher - 9 kg - 1 no. and sand bucket near transformer has been provided. 2. HT Panel, Main LT Panel, Lift Panel, DG Panel will be protected with Fire Tubing with Clean Agent Gas.	
48	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 non-combustible, fire resistive material.	All shafts & sleeves are sealed with fire resistive material at each floor level and shaft doors are also fire rated door		Provided	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram
49.	Ventilation				

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a	Whether the building is relied on natural ventilation, if so give details.	Provided		Cross ventilation shall be provided on staircase of 4B Tower and for corridor of both the tower (3B & 4B) provided minimum 3 sqm louvers of size in each landing from ground and above floors.	Revised for new tower 3B & 4B in place of Tower 13,14,15,16
b	Whether mechanical ventilation has been proposed? If so give details of the proposed system indicating the number of air changes for the basement and other floors.	Provided	Required as per NBC 2016 Fire & Life Safety Part 4, Clause 4.6.2	Mechanical Ventilation is being provided for basements. Provided 6 ACPH as normal ventilation and 12 ACPH in case of fire in basement. The maximum car parking zone area is less than 3000sqm. STP (Site Plan) - Ex. Air 30 ACPH & Makeup Air 27 ACPH Community Building: PL & FF Room - 22 ACPH for Ex. Air & Makeup Air Service Area - 12 ACPH for Ex. Air & Makeup Air Badminton Double HT - 12 ACPH for Ex. Air & Makeup Air GYM - 12 ACPH for Ex. Air & Makeup Air	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 Revised for basements of new tower 3B & 4B in place of Tower 13,14,15,16

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c	Whether Mechanical ventilation is coupled with automatic detection system? Please give the detail of system.			Smoke exhaust and makeup air shall be ducted. Ducting shall be provided for 12 ACPH.	
50	Please indicate the number and type of fire extinguishers provided at various locations and arrangement for the maintenance of the extinguishers.	9 liter Water CO2 type ,4.5 Kg CO2 type fire extinguishers and 5kg ABC type extinguishers shall be provided at appropriate locations as per IS code	Required as per NBC Part-4 annex C-5 and NFPA -72 Chapter 6.9.9	ABC type-4 kg =94 Nos. (near FHC/FHR) CO2 – 4.5 kg =94 nos. (near FHC/FHR) DCP - 22.5 Kg-1no. (near pump room) Foam type – 50 ltr. - 1 no (near pump room) DCP Trolley mounted mobile – 25 kg - 1 no. (transformer) Dry CO2 Trolley mounted mobile – 9 kg - 1 Trolley mounted mobile – 9 kg - 1 no. (for DG) APPF Trolley mounted mobile – 1 no. (for Transformer) APPF Trolley mounted mobile – 1	Revised for new tower 38 & 4B in place of Tower 13,14,15,16 in the new 4.035 acres development Certified that fire Fighting Scheme is as per NBC, Part-IV, revised 2016 FSO Gurugram FSO Gurugram

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				no. (for DG) ABC Type – 6 kg - 1 no. (for DG) 1.Tower 3B- Stilt Floor to terrace-2 nos. on each floor = 56 nos. 2.Tower 4B- Stilt Floor to terrace-2 nos. on each floor = 56 nos. 3. Under Tower 3B & 4B-Basement-1-32 nos. 4. Under Tower 3B & 4B-Basement-2-32 nos. 5. Community Building-2 nos. each on Basement 2 Floor, Basement 1 Floor & Gr Floor = 6 nos. 6. Convenient Shopping-1- Gr. Fl.-2 nos. 7. Convenient Shopping-2- Gr. Fl.-2 nos. 8. Temple- Gr. Fl.-2 nos. The extinguishers will be checked periodically and refilled as and when required	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram Gurugram Gurugram
51	Please indicate if all fire extinguishers bear the ISI certification mark.	ISI marked	Required as per IS-15683	Yes, all fire extinguishers bear the IS-15683	

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52	Are the occupants of the building systematically trained in the fire prevention use of fire extinguishers and emergency procedures? If so, please give details.	yes , they will be trained once building is constructed	Required	yes , they will be trained once building is constructed	Certified that fire Fighting Scheme is as per N.B.C. Part-IV, revised 2016 FSO Gurugram FSO Gurugram
53	Does an emergency organization exist in the building? If so, please give details and append a copy of the emergency (fire) orders.	yes, a team of members would be organized for the purpose, all emergency action required , during fire operation shall be treated by them	Required	yes, a team of members would be organized for the purpose, all emergency action required, during fire operation shall be treated by them	FSO Gurugram

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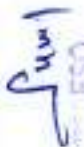
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S.No	DESCRIPTION	Approved requirement as per earlier sanctioned by fire service vide memo no...2499...dt...26/09/12....	Requirement as Per NBC - 2016	Proposed	Remarks
58	Is the Building Sprinklered?		Required	Tower 4B 18th floor...63m level - Refuge area-24 Sqm Entire 3B & 4B Towers , Community building are sprinklered with quick response type sprinklers except convenient shopping 1, 2 & temple	Revised for new tower 3B & 4B in place of Tower 13,14,15,16

Certified that fire Fighting Schema is
as per N.B.C. Part-IV, revised 2016

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RAJEEV KUMAR AGARWAL
ARCHITECT CA/88/11915

OWNER / AUTHORIZED SIGNATORY

PROJECT ARCHITECT



PDA Consultants

MEP & Green Building Consultants



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FEB 15, 2024

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT THE FIRE PROTECTION, VENTILATION, FIRE DETECTION & ALARM SYSTEM FOR THE GROUP HOUSING COLONY (TOWER 3B, TOWER 4B, TEMPLE & COMMUNITY BUILDING, CONVENIENT SHOPPING 1 & 2) AREA MEASURING 4.035 ACRES (OUT OF 16.54 ACRES OF LICENSE NO. 67 OF 2011 DATED 16.07.2011 GRANTED TO JANPRIYA BUILD ESTATE PVT. LTD.), SECTOR-77 GURUGRAM BEING DEVELOPED BY KEYSTONE WORLD PVT LTD, HAS BEEN DESIGNED AS PER NATIONAL BUILDING CODE OF INDIA 2016". ALL PROVISIONS ARE MADE TO TACKLE ANY EVENTUALITY OF FIRE.

FOR PDA CONSULTANTS

yjha. (Praveen Kumar Jha)

PRAVEEN KUMAR JHA
AUTHORIZED SIGNATORY

FIRE ELECTRICAL AND
VENTILATION CONSULTANT
DELHI



FEB 15, 2024

TO WHOMSOEVER IT MAY CONCERN

WE, M/S PDA CONSULTANTS HEREBY AUTHORIZE MR PRAVEEN KUMAR JHA WHOSE SIGNATURES ARE ATTESTED BELOW TO SIGN ON BEHALF OF M/s PDA CONSULTANTS ON THE FIRE CERTIFICATE & RELATED DRAWINGS AND DOCUMENTS.

For PDA Consultants

For PDA CONSULTANTS

Ankur Aggarwal
PDA Consultants

Partner

yjha.

Signature of Mr Praveen Kumar Jha

[Signature]

Attested