LEGEND:-

SYMBOL	DESCRIPTION
FHC	FIRE HOSE CABINET
FE	FIRE EXTINGUISHERS
YH	YARD HYDRANT
	BUTTERFLY/BALL VALVE
	NON RETURN VALE
	PRESSURE GAUGE
BFV	BUTTERFLY VALVE
F.S	FLOW SWITCH
LV	LANDING VALVE

TOWER'S FAR DETAILED AREA STATEMENT IN SQ. MTR.

FLOORS	TOWER-24	TOWER-25	TOWER-26	TOTAL AREA ON FLOOR
STILT FLOOR	50.585	50.585	50.585	151.755
1ST FLOOR	511.416	511.416	511.416	1534.248
2ND FLOOR	511.416	511.416	511.416	1534.248
3RD FLOOR	511.416	511.416	511.416	1534.248
4TH FLOOR	511.416	511.416	511.416	1534.248
5th FLOOR	511.416	511.416	511.416	1534.248
6th FLOOR	511.416	511.416	511.416	1534.248
7th FLOOR	511.416	511.416	511.416	1534.248
8th FLOOR	511.416	511.416	511.416	1534.248
9th FLOOR	511.416	511.416	511.416	1534.248
10th FLOOR	447.869	511.416	511.416	1470.701
11th FLOOR	447.869	511.416	511.416	1470.701
12th FLOOR	383.375	511.416	511.416	1406.206
14th FLOOR		511.416	511.416	1022.832
15th FLOOR		511.416	511.416	1022.832
TOTAL AREA	5932.441	7210.408	7210.408	20353.256

ESS AREA CALCULATION

TYPE	QUANTITY	SHAPE	FORMULA	DETAIL		CALCULATION EACH AREA IN SQ.M
COVERAGE (DEDUCTION)						
A	1	RECTANGLE	L x B	9.675	3.480	33.670
B	1	RECTANGLE	L x B	5.900	5.100	29.800
TOTAL (X)						63.370

U.G TANK AREA CALCULATION

TYPE	QUANTITY	SHAPE	FORMULA	DETAIL		CALCULATION EACH AREA IN SQ.M
COVERAGE (DEDUCTION)						
C	1	RECTANGLE	L x B	11.650	12.550	148.467
TOTAL (X)						148.467

S.T.P AREA CALCULATION

TYPE	QUANTITY	SHAPE	FORMULA	DETAIL		CALCULATION EACH AREA IN SQ.M
COVERAGE (DEDUCTION)						
D	1	RECTANGLE	L x B	11.250	26.875	302.344
TOTAL (X)						302.344

SERVICE AREA (LT PANEL) IN TOWER-26 STILT CALCULATION

TYPE	QUANTITY	SHAPE	FORMULA	DETAIL		CALCULATION EACH AREA IN SQ.M
COVERAGE (ADDITION)						
ABCD	2	RECTANGLE	L x B	10.540	9.305	196.559
TOTAL						196.559
COVERAGE (DEDUCTION)						
1	2	RECTANGLE	L x B	2.000	1.020	4.200
2	2	RECTANGLE	L x B	0.000	3.020	1.210
3	2	RECTANGLE	L x B	4.585	2.090	19.165
4	2	RECTANGLE	L x B	1.615	2.795	9.024
5	2	RECTANGLE	L x B	0.630	0.355	0.454
TOTAL (X)						34.197
NET COVERED AREA = ABCD - (X)						162.422

Summary of Ground Coverage

	Permissible Area (in Sq.Mts.)	Proposed Area (in Sq.Mts.)
Ground Coverage	4615.936	2149.569
Percentage	50.00%	23.28%

Ground Coverage Detail	Area	Unit
Tower -24	544.721	Sq.Mts.
Tower -25	544.721	Sq.Mts.
Tower -26	544.721	Sq.Mts.
COMM ERCIAL	515.405	Sq.Mts.
Total Ground Coverage	2149.569	Sq.Mts.

STILT AREA CALCULATION

TOWER Nos.	STILT AREA
TOWER-24	619.466
TOWER-25	619.466
TOWER-26	619.466
TOTAL STILT AREA	1858.399

PUMPS DETAILS

TAG NO.	PUMPS DESCRIPTION	CAPACITY	HEAD	PRIME MOVER
F1	FIRE PUMP(2NO.)	2280 LPM	100 MWC	ELECTRIC MOTOR
F2	JOCKEY PUMP(2NO.)	180 LPM	100 MWC	ELECTRIC MOTOR
F3	FIRE PUMP(2NO.)	2280 LPM	100 MWC	DIESEL ENGINE

LEGEND

SYMBOLS	DESCRIPTION
	BUTTER FLY VALVE
	NON RETURN VALVE
	9 KG CAPACITY WATER CO2 TYPE FIRE EXTINGUISHER
	4.5 KG CAPACITY CO2 TYPE FIRE EXTINGUISHER
	TWO WAY FIRE BRIGADE OUTLET CONNECTION
	ONE WAY FIRE BRIGADE OUTLET CONNECTION
YH	YARD HYDRENT

DORMITERIES & APARTMENTS (A-3)

(PART-3) - ABOVE 35 MT. BUT NOT EXCEEDING 45 MT. IN HEIGHT

1- HOSE REEL
2- WET RISER SYSTEM
3- SPRINKLER RISER FOR STILT AND BASEMENT I & II
4- AUTOMATIC SPRINKLER SYSTEM IN BASEMENT AND STILT
5-MANUALLY OPERATED ELECTRIC FIRE ALARM SYSTEM
6- UNDER GROUND TANK CAPACITY - 75.000 Ltr.
7- OVER HEAD FIRE TANK CAPACITY - 10.000 Ltr. EACH BLOCK
8- ELECTRIC FIRE PUMPS - 1620 lpm HEAD - 80 M.
9- DIESEL PUMP - 1620 lpm HEAD - 80 M.
10- JOCKEY PUMP - 180 lpm HEAD - 35 M.
11- 9 KG CAPACITY WATER CO2 TYPE FIRE EXTINGUISHER AS ISI 2191
12- 4.5 KG CAPACITY CO2 TYPE FIRE EXTINGUISHER AS PER ISI 2191
13- FIRE STAIRCASE AND FIRE ESCAPE AS PER NBC NORMS.
14- SET BACK AS PER NBC NORMS.
15- P.A. SYSTEM AND COMPARTMENTATION AS NBC NORMS.
16- STRUCTURAL SAFTY FIRE CONTROL ROOM AS PER GROUND FLOOR
17- FIRE MEN LIFT WITH FIRE MAN SWITCH.
18- YARD HYDRANT, SET BACK AS PER NBC NORMS
19- 4 WAY FIRE BRIGADE OUTLET CONNECTION.
20- 2 WAY FIRE BRIGADE INLET CONNECTION
21- ALTERNATE SOURCE OF ELECTRIC SUPPLY.
22- FIRE PUMP HOUSE ESTABLISHED UPPER BASEMENT.

Built-up Area Summary For Proposed Towers

Typology	Built-up Area (Sq Mts)	Nos.	Total Built-up Area (in Sq Mts.)
Tower 24	6827.254	1	6827.254
Tower 25	8283.443	1	8283.443
Tower 26	8283.443	1	8283.443
Commercial	663.061	1	663.061
S.T.P AREA	302.344	1	302.344
DSS AREA	60.270	1	60.270
SERVICE AREA IN STILT AREA	34.137	1	34.137
U.G TANK AREA	148.467	1	148.467
Total Built-up Area			**24602.423**

BUILTUP AREA DETAIL OF PROPOSED TOWERS

TOWER Nos.	TOWER FAR AREA	TOWER BALCONY AREA	MUMTY AREA	MACHINE ROOM / O.H.T AREA	TOTAL BUILTUP AREA
TOWER-24	5932.441	828.504	15.724	50.585	6827.254
TOWER-25	7210.4076	1006.726	15.724	50.585	8283.443
TOWER-26	7210.408	1006.726	15.724	50.585	8283.443
TOTAL	20353.256	2841.956	47.172	151.755	23394.139

UNITS & POPULATION STATEMENT ON PROPOSED SITE

S.NO	BUILDING TYPE	DISCRIPTIONS	TOTAL NOS OF APPARTMENT			POPULATIONS		CARPET AREA CALCULATIONS	
	TYPOLOGY	NO. OF FLOORS	NO OF FLOORS	NOS OF UNIT PER FLOOR	TOTAL UNITS IN TOWER	PERSON PER UNIT	MAIN POPULATIONS	UNIT CARPET AREA IN SQ. MT	TOTAL UNIT CARPET AREA IN SQ. MT.
1	3BHK (TYPE-A)	(1ST TO 9TH FLOOR)	9	4	36	5	180	59.770	2151.711
	2BHK (TYPE-B)		9	4	36	5	180	54.012	1944.448
	3BHK (TYPE-A)	(10TH TO 11TH FLOOR)	2	3	6	5	30	59.770	358.619
	2BHK (TYPE-B)		2	4	8	5	40	54.012	432.100
	3BHK (TYPE-A)	(12TH FLOOR)	1	2	2	5	10	59.770	119.540
	2BHK (TYPE-B)		1	4	4	5	20	54.012	216.050
2	3BHK (TYPE-A)	S+14	14	4	56	5	280	59.770	3347.106
	TOWER-25 2BHK (TYPE-B)	(APARTMENTS)	14	4	56	5	280	54.012	3024.697
3	3BHK (TYPE-A)	S+14	14	4	56	5	280	59.770	3347.106
	TOWER-26 2BHK (TYPE-B)	(APARTMENTS)	14	4	56	5	280	54.012	3024.697
	TOTAL				316	50	1580		17998.073 SQ. MT.
	TOTAL CARPET AREA IN SQ. FEET								193598.8086 SQ. FT.
	CARPET AREA PER ACRE								88504.479 SQ. FT. / ACRE

OPEN PARKING AREA CALCULATION

S.No.	NAME	SHAPE	LENGTH (L)	WIDTH (B)	HEIGHT (H)	PERIMETER (L+B)x2	AREA	QUANTITY	TOTAL AREA
1	ROI	Rectangle	32.500	11.000	-	1.320	357.500	1	357.500
									357.500
STILT PARKING AREA									
TOWER -24				=	619.466 SQ.M.				
STILT FLOOR (A,B,C,D)				=	50.585 SQ.M.				
PARKING AREA ON STILT=(X-Y)				=	568.881 SQ.M.				
TOWER -25									
STILT AREA (X)				=	619.466 SQ.M.				
STILT FLOOR (A,B,C)				=	50.585 SQ.M.				
PARKING AREA ON STILT=(X-Y)				=	568.881 SQ.M.				
TOWER -26									
STILT AREA (X)				=	619.466 SQ.M.				
STILT FLOOR (A,B,C)				=	50.585 SQ.M.				
SERVICE AREA IN STILT (Z)				=	486.459 SQ.M.				
PARKING AREA ON STILT=(X-(Y+Z)				=					
TOTAL STILT PARKING AREA				=	1544.222 SQ.M.				

AREA STATEMENT

	ALREADY SANCTIONED		ADDITIONAL PROPOSED AREA		TOTAL		
SITE AREA SANCTIONED (AS PER ZONING PLAN)	6.03125		2.28125		8.31250	ACRES	
SITE AREA IN SQ. MT.	24407.564		9231.877		33639.441	SQ.M	
PERMISSIBLE GR. COVG 50%	12203.782		4615.938		16819.720	SQM	
PROPOSED GROUND COVERAGE	5067.836		2149.569		10217.206	SQM	30.37%
COMMERCIAL AREA DETAIL							
PERMISSIBLE F.A.R FOR COMMERCIAL 4 %	976.303		369.275		1345.578	SQM	4.00%
	0.241	ACRES	0.091		0.333	ACRES	
PERMISSIBLE F.A.R FOR COMMERCIAL 175	1706.529		646.231		2354.761	SQM	
ADDITIONAL F.A.R. - (FOR S.W.T.P FAR) COMMERCIAL @3%			11.079		11.079		
Total Permissible Commercial F.A.R @ 179%			657.310		2365.839	SQM	
COMMERCIAL AREA SANCTIONED	1702.142						
	ALREADY SANCTIONED		ADDITIONAL PROPOSED AREA				
PROPOSED COMMERCIAL	1702.142		663.061		2365.203	SQM	175.78%
NET AREA FOR HOUSING	23431.261		8982.602		32293.863	SQM	
	5.790	ACRES	2.190		7.980	ACRES	
HOUSING AREA CALCULATION							
PERMISSIBLE F.A.R FOR HOUSING 225 %	52720.338		19940.853		72661.192	SQM	
ADD 2 % ALREADY TAKEN FOR (FOR S.W.T.P FAR)	702.938				702.938	SQM	
ADD 3% (FOR S.W.T.P FAR) FOR PROPOSED PLOT			266.879		266.879		
NET PERM. FAR FOR HOUSING 225%	83423.276		20206.731		73830.006	SQM	228.00%
FAR ALREADY SANCTIONED	83278.801					SQM	
BALANCE FAR FOR AVAILABLE FOR SANCTION			20364.607			SQM	
PROPOSED F.A.R			20363.264			SQM	
NET PROPOSED FAR (ALREADY SANCTIONED+ PROPOSED FAR)					73628.787	SQM	227.99%
FAR REMAINING			1.260				
DENSITY CALCULATION							
PERMISSIBLE DENSITY MAXIMUM @ 900PPA	7182	PERSONS			1434	DU'S	
PERMISSIBLE DENSITY MINIMUM @ 750 PPA	5985	PERSONS			1197	DU'S	
PROPOSED DENSITY / DWELLING UNITS	ALREADY SANCTIONED	PROPOSED	TOTAL				
NO. OF UNITS	980	316	1296	UNITS			
DENSITY	4780	1580	6230	PERSONS			
	596.230		793.253	PPA			
GREEN AREA CALCULATION	ALREADY SANCTIONED		PROPOSED	TOTAL (ALREADY SANCTIONED + PROPOSED) IN SQM.			
MINIMUM GREEN AREA REQU. 15% of Total Plot Area	5045.916	SQ.M					
PROPOSE GREEN AREA	4102.121	SQ.M	1237.547		5339.668		15.87%
COVERD AREA DETAIL	SANCTIONED		PROPOSED	TOTAL (ALREADY SANCTIONED + PROPOSED) IN SQM.			
GROUND COVERAGE	2297.946		2149.569		4447.515		
STILT AREA (PARKING) NON PAR	2480.828		1544.222		4012.050		
FAR AREA DETAIL	83278.801		20363.264		73628.787		
MUMTY MACHINE ROOM (NON F.A.R)	152.864		198.927		351.791		
PROPOSED UNIT ON GROUND FLOOR	12		0		12		
NO. OF FLOORS	8.000		14.000		14.000		
HEIGHT OF BUILDING	27.000		44.650				
PROPOSED DENSITY	4780		1580		6330		
	596.230				793.253		PPA
PARKING AREA CALCULATION							
REQUIRED PARKING @ 0 ECS PER UNIT	476		158		633		ECS
PROPOSED PARKING							
PARKING IN STILT	80		65		143		ECS
OPEN PARKING AREA ECS	632		16		648		ECS
TOTAL ECS PROPOSED	820		71		691		ECS
TWO WHEELER PARKING REQUIRED @ 1 PARKING PER DU			316	NO.s			
2 WHEELERS PROVIDED ON STILT OF PROPOSED TOWERS			291	NO.s			
2 WHEELERS PROVIDED ON PROPOSED SITE			27	NO.s			
TOTAL 2 WHEELERS PROVIDED			318	NO.s			

PARKING SUMMARY

TOTAL NO. OF APARTMENTS PROPOSED	-		316
PARKING REQUIRED @ 0.5 ECS PER DU	-		158 ECS
PARKING REQUIRED BY AREA			
ALREADY SANCTIONED OPEN PARKING AREA	-		12238.600 SQ.M.
PROPOSED OPEN PARKING AREA	-		357.500 SQ.M.
TOTAL NOS. OF PARKING IN OPEN SPACE @ 25 SQ.M./ECS	-		15.543 ECS
	Say		16 ECS
PROPOSED STILT PARKING AREA	-		1544.222 SQ.M.
TOTAL NOS. OF PARKING IN STILT AREA @ 28 SQ.M./ECS	-		55.151 ECS
	Say		55
TOTAL ECS PROVIDED	-		71 ECS
PARKING PROVIDED			
TOTAL NO. OF APARTMENTS PROPOSED	-		316
TWO WHEELER PARKING REQUIRED @1 PARKING PER DU	-		316
2 WHEELERS PROVIDED ON STILT OF PROPOSED TOWERS	-		291 NO.s
2 WHEELERS PROVIDED ON PROPOSED SITE	-		27 NO.s
TOTAL 2 WHEELERS PROVIDED	-		318 NO.s

PROJECT TITLE :-

PROPOSED ADDITION ALTERATION FOR AFFORDABLE GROUP HOUSING COLONY ON AREA MEASURING (5 ACRES + 1.03125+2.28125 = 8.3125 ACRES)FOR AN ADDITIONAL AREA MEASURING 2.28125 ACER (LICENCE NO.72 OF 2019 DATED 02.07.2019) IN ALREADY LICENCE GRANTED AFFORDABLE GROUP HOUSING COLONY MEASURING 6.03125 ACRES (LICENCE NO.12 OF 2014 DATED 10.06.2014) & LICENCE NO. 96 OF 2017 DATED 08.11.2017) TOTAL AREA 8.3125 ACRES IN SECTOR 104,GURGAON MANESAR URBAN COMPLEX BEING DEVELOPED BY PERFECT BUILDWELL PVT.LTD.AND OTHERS.

PRINCIPLE ARCHITECT

dfi
DESIGN FORUM INTERNATIONAL
K-47 , KAILASH COLONY NEW DELHI-48
PHONE: 011 - 46556600 FAX : 46556601

OWNER'S SIGNATURE

For PERFECT BUILDWELL PRIVATE LIMITED
Director

ARCHITECT'S SIGNATURE

Checked and found ok for Public Health Drawings/plans are subject to comments in forthcoming layer for service

DRAWING TITLE:

SERVICE PLAN

SCALE : 1:400
DATE :

SHEET NO. 1A

LT PANEL AREA CALCULATION
SCALE - 1:200

S.T.P PLAN
SCALE 1:200

U.G. TANK PLAN
SCALE 1:200

ALREADY SANCTIONED
WITH MEMO NO.

NEW PROPOSED