FAR CALCULATIONS OF EACH BUILDING BLOCKS

BUILDING BLOCKS	CLUSTER 1A	CLUSTER 1B	CLUSTER 1C	CLUSTER 1D	CLUSTER 1E	CLUSTER 1F	CLUSTER 2	CLUSTER 3	CLUSTER 4	COMMUNITY BUILDING	CONVENIENCE	EWS
TOTAL BLOCKS	1	1	1	1	1	1	1	1	1	1	1	1
FLOORS												
BASEMENT FLR	14900	14900	11400	24456	24895	24455	27250	26139	22890	13900.00	900.00	5834.00
1st FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
2ND FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
3rd FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
4th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
5th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
6th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
7th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
8th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
9th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
10th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
11th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
12th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
13th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
14th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
15th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
16th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
17th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
18th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
19th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
20th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
21st FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
22nd FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
23rd FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
24th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
25th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
26th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
27th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
28th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
29th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
30th FLR	14577.16	14577.16	11400	24456	24895	24455	27250	26139	22890			5834.00
TOTAL AREA / BLOCK	10716.81	10260.03	11018.35	11270.35	9015.73	10233.05	8956.66	13562.24	12769.66	1360.66	300.00	1682.33
BASEMENT AREA						55.00						
TOTAL FAR	195249.377											

DENSITY ---- 300 PPA

BUILDING BLOCKS	NUMBER OF BLOCKS	STOREY	GROUND COVERAGE	TOTAL FAR	TOTAL NUMBER OF DUs	POPULATION
CLUSTER 1 A	1	STILT+15	457.641	10718.81	100	500 [5 persons]
CLUSTER 1B	1	STILT+14	457.641	10260.03	96	480 [5 persons]
CLUSTER 1C	1	STILT+20	453.577	11018.35	120	600 [5 persons]
CLUSTER 1D	1	STILT+17	457.641	11270.35	108	540 [5 persons]
CLUSTER 1E	1	STILT+21	457.641	9015.73	84	420 [5 persons]
CLUSTER 1F	1	STILT+14	457.641	10233.05	96	480 [5 persons]
CLUSTER 2	1	STILT+17	559.560	8956.66	88	440 [5 persons]
CLUSTER 3	1	STILT+21	717.108	13562.24	84	420 [5 persons]
CLUSTER 4	1	STILT+21	669.880	12769.66	66	330 [5 persons]
EWS	1	COMMUNITY+4	99.775	3802.23	150	600 [4 persons]
SERVANT ROOM	1	STILT	22.282	642.195	88	176 [2 persons]
COMMUNITY BUILDING	1	STILT	189.295	1358.66	----	----
COMMERCIAL	1	GROUND+1FLOOR	543.306	300.60	----	----
GATE &GUARD HOUSE			99.000	99.00	----	----
TOTAL	17		5867.30	109269.38	1040	4486

PARKING CALCULATION

ECS FOR FLATS = 802 X 1.5

TOTAL ECS REQUIRED	=	1203				
	=	1203	ECS			
75% OF PARKING IN FLATS & EWS SHALL BE COVERED	=	75% OF 1209				
	=	902	COVERED PARKING REQUIRED			
ECS RESERVED FOR EWS @ 5%	=	60				
ECS IN NORMAL PARKING IN OPEN BASEMENT	=	20186.83	\	35	= 576.67	SAY= 576
ECS IN NORMAL PARKING IN COVER BASEMENT	=	20582.29	\	35	= 588.07	SAY= 588
LESS IN NORMAL PARKING IN SURFACE (50%) @ 25	=	17676.74	\	35	= 255.53	SAY=256
PROPOSED COVERED PARKING [UPPER BASEMENT]	=	575		A		
PROPOSED COVERED PARKING [LOWER BASEMENT]	=	588		B		
PROPOSED OPEN [SURFACE] PARKING	=	249		C		
TOTAL PARKING	=	A + B + C				
TOTAL ECS PROPOSED	=	1416	ECS			

DU CALCULATION

FLOOR	CLUSTER-1A (+25)	CLUSTER-1B (+25)	CLUSTER-1C (+20)	CLUSTER-1D (+22)	CLUSTER-1E (+21)	CLUSTER-1F (+24)	CLUSTER-2 (+17)	CLUSTER-3 (+21)	CLUSTER-4 (+21)
STILT FLR	0	0	0	0	0	0	0	0	0
1st FLR	4	4	4	4	4	4	4	4	2
2nd FLR	4	4	4	4	4	4	4	4	2
3rd FLR	4	4	4	4	4	4	4	4	2
4th FLR	4	4	4	4	4	4	4	4	2
5th FLR	4	4	4	4	4	4	4	4	2
6th FLR	4	4	4	4	4	4	4	4	2
7th FLR	4	4	4	4	4	4	4	4	2
8th FLR	4	4	4	4	4	4	4	4	2
9th FLR	4	4	4	4	4	4	4	4	2
10th FLR	4	4	4	4	4	4	4	4	2
11th FLR	4	4	4	4	4	4	4	4	2
12th FLR	4	4	4	4	4	4	4	4	2
13th FLR	4	4	4	4	4	4	4	4	2
14TH FLR	4	4	4	4	4	4	4	4	2
15TH FLR	4	4	4	4	4	4	4	4	2
16th FLR	4	4	4	4	4	4	4	4	2
17th FLR	4	4	4	4	4	4	4	4	2
18th FLR	4	4	4	4	4	4	4	4	2
19th FLR	4	4	4	4	4	4	4	4	2
20th FLR	4	4	4	4	4	4	4	4	2
21st FLR	4	4	4	4	4	4	4	4	2
22nd FLR	4	4	4	4	4	4	4	4	2
23rd FLR	4	4	4	4	4	4	4	4	2
24th FLR	4	4	4	4	4	4	4	4	2
25th FLR								4	
26th FLR								4	
27th FLR								4	
28th FLR								4	
29th FLR								4	
30th FLR								4	
TOTAL	100	96	120	108	104	96	88	110	44

REQUIRED EWS UNITS = 802 / 5.85 = SAY - 152

PROPOSED EWS UNITS = 150 Nos.

REQUIRED SERVICE PERSONAL = 80 / 20 = SAY 79

PROPOSED SERVICE PERSONAL (SERVANT ROOM) = 88 Nos.

DU CALCULATION (SERVANT ROOM)

FLOOR	CLUSTER-3	CLUSTER-4
BASEMENT	21	9
STILT	STILT	STILT
1st FLR	2	2
2nd FLR	2	2
3rd FLR	2	2
4th FLR	2	2
5th FLR	2	2
6th FLR	2	2
7th FLR	2	2
8th FLR	2	2
9th FLR	2	2
10th FLR	2	2
11th FLR	2	2
12th FLR	2	2
13TH FLR	2	2
14TH FLR	2	2
15th FLR	2	2
16th FLR	2	2
17th FLR	2	2
18th FLR	2	2
19th FLR	2	2
20th FLR	2	2
21st FLR	2	2
22nd FLR	2	2
23rd FLR	2	2
24th FLR	2	2
25th FLR	2	
26th FLR	2	
27th FLR	2	
28th FLR	2	
29th FLR	2	
30th FLR	2	
TOTAL	83	46
GRAND TOTAL	62+46	88

DU CALCULATION (EWS)

FLOOR	EWS-BLOCK-1
BLOCKS	1
GRD FLR	STILT
1st FLR	25
2nd FLR	25
3rd FLR	25
4TH FLR	25
5TH FLR	25
6TH FLR	25
TOTAL	150
TOTAL DUs (FLATS)	
TOTAL	150

AREA SUMMARY

TOTAL PLOT AREA	15.0481	ACRES		
i.e.	60897.400	SQ.MTRS.		
PERMISSIBLE GROUND COVERAGE @ 35% OF PLOT AREA	=		21314.090	
PROPOSED GROUND COVERAGE	=		5867.799	
			9.636%	
PERMISSIBLE FAR @ 175%	=		106570.450	
PROPOSED FAR	=		105269.377	
			172.863%	
PERMISSIBLE DENSITY	=	4514.43	300 PPA	
PROPOSED DENSITY	=	4486		
	=	298.111	PPA	
PROPOSED DUs	=	802		
EWS TO BE PROVIDED	=	802	* 15/85	
	=	141.53		
EWS PROPOSED	=	150	No.	
REQUIRED SERVANTS ROOM @ 10% OF DU's	=	80.20	No.	
PROPOSED	=	88	No.	
MINIMUM REQUIRED ECS	=	1203	ECS [1.5XDU'S]	
PROPOSED ECS	=	1416	ECS	
REQUIRED ORGANIZED GREEN @ 15%	=	9134.61	sq mtrs.	
PROPOSED GREEN	=	18360.20	sq mtrs.	
		30.15%		
PERMISSIBLE SHOPPING AREA @ 0.5%	=	304.49	sq mtrs.	
PROPOSED SHOPPING AREA	=	300.60	sq mtrs.	
PROPOSED AREA OF UPPER BASEMENT	=	24454.27	sq mtrs.	
PROPOSED AREA OF LOWER BASEMENT	=	24454.27	sq mtrs.	
TOTAL BASEMENT AREA	=	48908.54	sq mtrs.	
PROVIDED COMMUNITY	=	01 IN NO.		
PROVIDED NURSERY SCHOOL-1	=	0.2 Acres		
NURSERY SCHOOL-2	=	0.2 Acres		

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.	C.P.	MANHOLE
2.		UNDER GROUND DRAIN
3.		DESILTING TANK
4.		RECHARGE PIT
5.		BASEMENT RETAINING WALL

NOTES

Dimensions are not to be scaled.

Contractor must verify all dimensions at site before commencement of any work.

Contractor must notify Architect and/or Project Manager of all discrepancies in drawing.

All Levels given are Finished Floor Levels unless mentioned otherwise.

Refer this drawing along with other relevant architectural, structural & other services drawings, before the execution of work, related to this drawing at site.

THIS DRAWING IS THE PROPERTY OF M/S. GIANP. MATHUR & ASSOCIATES PVT.LTD. AND SHALL NOT BE COPIED OR USED IN ANYWAY WITHOUT THEIR PRIOR PERMISSION.

Checked and found ok for Public Health (Internal) Services only subject to comments in forwarding letter No. EE(HQ)/357 Dt. 24/8/12

Superintending Engineer (HQ) HUDA, Panchkula

Checked subject to comments in Executive Engineer (W) letter No. 3333 Dt. 19/9/14 and Note attached with the estimate

Executive Engineer (W) for Chief Engineer HUDA Panchkula 19/9/14

Superintending Engineer, HUDA, Circle-II, Gurgaon

M.E.P Consultant: Consummate Engineering Services (P) Ltd.

Structure Consultant: GIAN P. MATHUR & ASSOCIATES PVT. LTD. ARCHITECTS, ENGINEERS & PROJECT MANAGERS

Architects: GIAN P. MATHUR & ASSOCIATES PVT. LTD. ARCHITECTS, ENGINEERS & PROJECT MANAGERS

SANCTIONED

To be read in conjunction with Permission No. 19 dtd. 24.9.14

Client: M/S MAPSKO BUILDERS PVT. LTD. SEC - 82 & 83 GURGAON

Project Code: 022(HT)/MOUNT VILL/GURGAON

Project Title: RESIDENTIAL GROUP HOUSING COLONY MEASURING 16.369 ACRE (LICENSE NO. 38 of 2012) IN SECTOR -78,79 GURGAON DEVELOPED BY M/S MAPSKO BUILDERS PVT. LTD.

Drawing Title: **EXTERNAL DRAINAGE SYSTEM**

Status: SUBMISSION DRAWING

OWNER'S SIGN: For Mapsko Builders Pvt. Ltd. Authorised Signatory

ARCHITECT SIGN: GIAN P. MATHUR ARCHITECT B. Arch., M.C.A., A.I.A. Ca. No. 80.0769

Date: 25/08/11 | Scale: 1:400 | Drawing No.: GPM/N/SUB-100

For Mapsko Builders Pvt. Ltd. Authorised Signatory

Director General Town & Country Planning, Haryana, Chandigarh

NOTES:

1. FIRE SAFETY MEASURES:

WE SHALL PROVIDE THE PROVISION OF PROPER FIRE SAFETY MEASURES IN THE MULTI STOREYED BUILDINGS.

2. SOLAR WATER HEATING SYSTEM

THE PROVISION OF SOLAR WATER HEATING SYSTEM SHALL BE MADE OPERATIONAL IN EACH BUILDING BLOCK.

3. RAIN WATER HARVESTING SYSTEM.

WE SHALL PROVIDE THE RAIN WATER HARVESTING SYSTEM.

UNDER GROUND TANK & PUMP HOUSE
DOMESTIC WATER TANK = 300 K.L.
FIRE TANK = 375 K.L.
TOTAL CAPACITY = 735 K.L.

SUBSTATION-01: 33 KV 3 VCB PANEL; 2000 KVA, 33/0.4KV TRANSFORMER-1; 2000 KVA, 33/0.4 KV TRANSFORMER-2 NOS

SUBSTATION-02: 33 KV 5 VCB PANEL; 1600 KVA, 33/0.4KV TRANSFORMER- 3 Nos

NURSERY SCHOOL-1 AREA = 0.2 ACRE

NURSERY SCHOOL-2 AREA = .2 ACRE

FUTURE PLANING

SEWAGE TREATEMENT PLANT CAP:- 620KLD

S.T.P.

33 KV METER ROOM

KEY PLAN