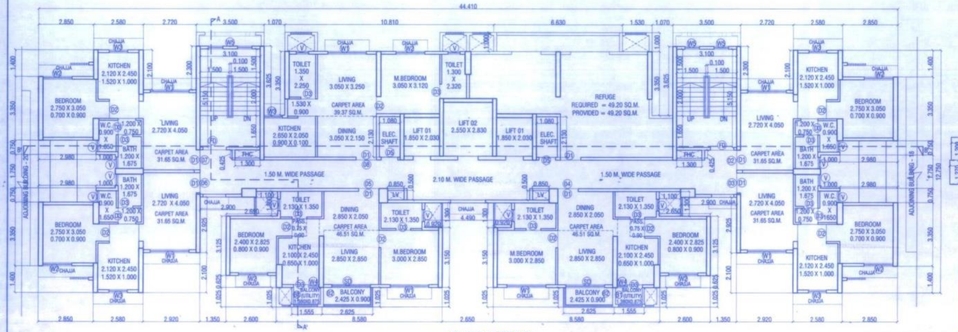
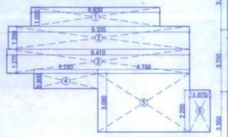


8TH REFUGE FLOOR PLAN
SCALE 1:100

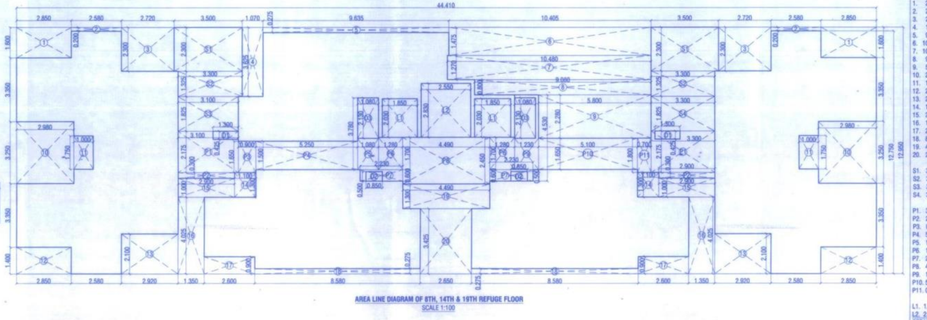
REFUGE AREA REQUIRED ON 8TH FLOOR			
FLOOR	R.UP. AREA	BALC. AREA	TOTAL
8TH	296.93	8.57	331.87 SQ.M.
9TH	341.49	8.57	350.06 SQ.M.
10TH	341.49	8.57	350.06 SQ.M.
11TH	341.49	8.57	350.06 SQ.M.
12TH	341.49	8.57	350.06 SQ.M.
13TH	341.49	8.57	350.06 SQ.M.
TOTAL	2060.17 SQ.M.		
2060.17 TO 2300 = 160.57 PERSONS ED PER PERSON 0.30 SQ.M.			
= 167 X 0.30 = 50.10 SQ.M.			
REFUGE AREA PROVIDED = 49.20 SQ.M.			



REFUGE AREA LINE DIGRAM OF 8TH FLOOR
(SCALE 1:100)

REFUGE AREA CALCULATION OF 8TH FLOOR: BLOCK - B

1.	6.630 X 1.000	=	6.63
2.	9.335 X 1.200	=	11.20
3.	9.410 X 1.270	=	11.95
4.	3.200 X 0.800	=	2.62
5.	4.730 X 3.080	=	14.57
6.	1.070 X 2.200	=	2.36
TOTAL		=	49.32 SQ.M.
AS PER POLY LINE AREA = 49.20 SQ.M.			



AREA LINE DIAGRAM OF 8TH, 14TH & 19TH REFUGE FLOOR
SCALE 1:100

BUILT UP AREA CALCULATION OF 8TH, 14TH & 19TH REFUGE FLOOR :
BLOCK "A" = 44.410 X 12.950 = 575.11 SQ.M.
DEDUCTION FOR

1.	2.850	X 1.600 X 2	=	9.12
2.	2.580	X 0.200 X 2	=	1.03
3.	2.720	X 2.300 X 2	=	12.51
4.	1.070	X 3.625 X 2	=	7.76
5.	18.970	X 0.275	=	5.22
6.	2.580	X 1.700 X 2	=	19.37
7.	1.000	X 1.750 X 2	=	3.50
8.	2.850	X 1.400 X 2	=	7.98
9.	2.920	X 2.100 X 2	=	12.26
10.	1.350	X 4.025 X 2	=	10.87
11.	2.580	X 1.000 X 2	=	5.60
12.	1.100	X 1.300 X 2	=	2.86
13.	2.580	X 0.900 X 2	=	4.68
14.	8.580	X 0.275 X 2	=	4.72
15.	2.580	X 3.425	=	9.08
16.	4.490	X 1.300	=	5.84
S1.	3.500	X 2.300 X 2	=	16.10
S2.	3.300	X 1.325 X 2	=	8.75
S3.	3.100	X 1.825 X 2	=	11.32
P1.	3.100	X 2.175 X 2	=	13.49
P2.	2.900	X 0.300 X 2	=	1.74
P3.	0.900	X 1.650 X 2	=	2.97
P4.	5.250	X 1.500 X 2	=	15.75
P5.	1.080	X 3.780 X 2	=	8.16
P6.	1.280	X 1.700 X 2	=	4.35
P7.	2.230	X 0.600 X 2	=	2.68
P8.	4.490	X 2.450	=	11.00
L1.	1.850	X 2.030 X 2	=	7.51
L2.	2.550	X 2.830	=	7.22
TOTAL AREA			=	278.13 SQ.M.

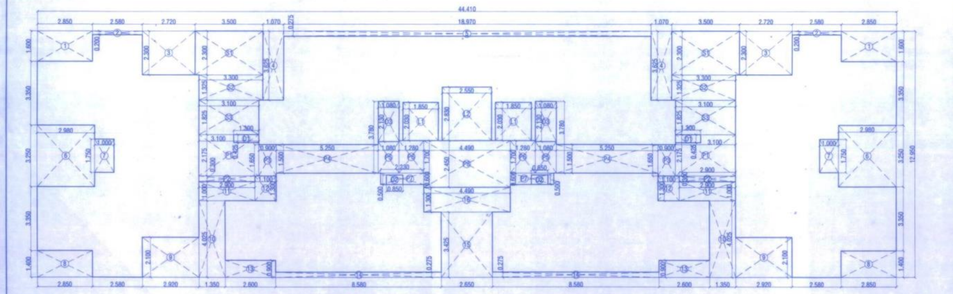
BUILT UP AREA OF 8TH,14TH &19TH REFUGE FLOOR = 575.11 - 278.13 = 296.98 SQ.M.
AS PER POLY LINE = 296.93 SQ.M.

OPEN BALCONY AREA CALCULATION OF 8TH, 14TH & 19TH REFUGE FLOOR :

B1.	1.555 X 1.025 X 2	=	3.19
B2.	2.625 X 1.025 X 2	=	5.38
TOTAL BALCONY AREA		=	8.57 SQ.M.
AS PER POLY LINE		=	8.57 SQ.M.
PERMISSIBLE BAL. AREA			
10 % OF 296.93		=	29.69 SQ.M.
PROPOSED BAL. AREA		=	8.57 SQ.M.
PROPOSED BUILT UP AREA OF 8TH, 14TH & 19TH REFUGE FLOOR= 296.93 SQ.M.			

STAIRCASE AND PASSAGE AREA CALCULATION 8TH, 14TH & 19TH REFUGE FLOOR :
ADDITION FOR

S1.	3.500	X 2.300 X 2	=	16.10
S2.	3.300	X 1.325 X 2	=	8.75
S3.	3.100	X 1.825 X 2	=	11.32
P1.	3.100	X 2.175 X 2	=	13.49
P2.	2.900	X 0.300 X 2	=	1.74
P3.	0.900	X 1.650 X 2	=	2.97
P4.	5.250	X 1.500 X 2	=	15.75
P5.	1.080	X 3.780 X 2	=	8.16
P6.	1.280	X 1.700 X 2	=	4.35
P7.	2.230	X 0.600 X 2	=	2.68
P8.	4.490	X 2.450	=	11.00
TOTAL STAIRCASE AREA			=	96.22 SQ.M.
DEDUCTION FOR				
D1.	1.300	X 0.425 X 2	=	1.11
D2.	0.850	X 0.500 X 2	=	0.85
D3.	1.080	X 2.130 X 2	=	4.60
TOTAL DUCT AREA			=	6.56 SQ.M.
= 96.22 - 6.56 = 91.66 SQ.M.				
AS PER POLY LINE = 91.67 SQ.M.				



AREA LINE DIAGRAM OF 2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR
SCALE 1:100

BUILT UP AREA CALCULATION OF 2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR :
BLOCK "A" = 44.410 X 12.950 = 575.11 SQ.M.
DEDUCTION FOR

1.	2.850	X 1.600 X 2	=	9.12
2.	2.580	X 0.200 X 2	=	1.03
3.	2.720	X 2.300 X 2	=	12.51
4.	1.070	X 3.625 X 2	=	7.76
5.	18.970	X 0.275	=	5.22
6.	2.580	X 1.700 X 2	=	19.37
7.	1.000	X 1.750 X 2	=	3.50
8.	2.850	X 1.400 X 2	=	7.98
9.	2.920	X 2.100 X 2	=	12.26
10.	1.350	X 4.025 X 2	=	10.87
11.	2.580	X 1.000 X 2	=	5.60
12.	1.100	X 1.300 X 2	=	2.86
13.	2.580	X 0.900 X 2	=	4.68
14.	8.580	X 0.275 X 2	=	4.72
15.	2.580	X 3.425	=	9.08
16.	4.490	X 1.300	=	5.84
S1.	3.500	X 2.300 X 2	=	16.10
S2.	3.300	X 1.325 X 2	=	8.75
S3.	3.100	X 1.825 X 2	=	11.32
P1.	3.100	X 2.175 X 2	=	13.49
P2.	2.900	X 0.300 X 2	=	1.74
P3.	0.900	X 1.650 X 2	=	2.97
P4.	5.250	X 1.500 X 2	=	15.75
P5.	1.080	X 3.780 X 2	=	8.16
P6.	1.280	X 1.700 X 2	=	4.35
P7.	2.230	X 0.600 X 2	=	2.68
P8.	4.490	X 2.450	=	11.00
L1.	1.850	X 2.030 X 2	=	7.51
L2.	2.550	X 2.830	=	7.22
TOTAL AREA			=	233.64 SQ.M.

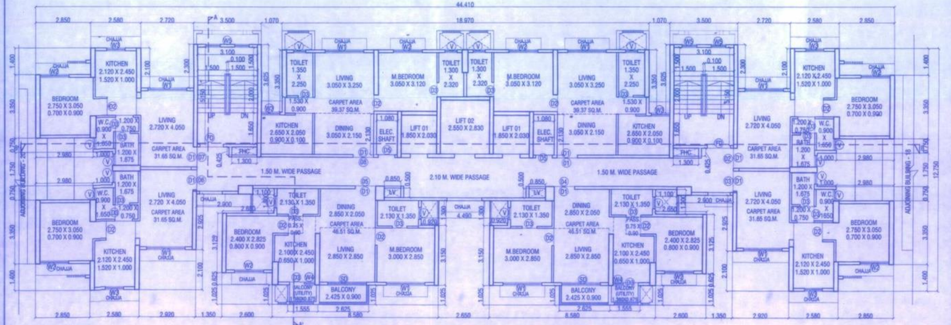
BUILT UP AREA OF 2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR = 575.11 - 233.64 = 341.47 SQ.M.
AS PER POLY LINE = 341.49 SQ.M.

OPEN BALCONY AREA CALCULATION OF 2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR :

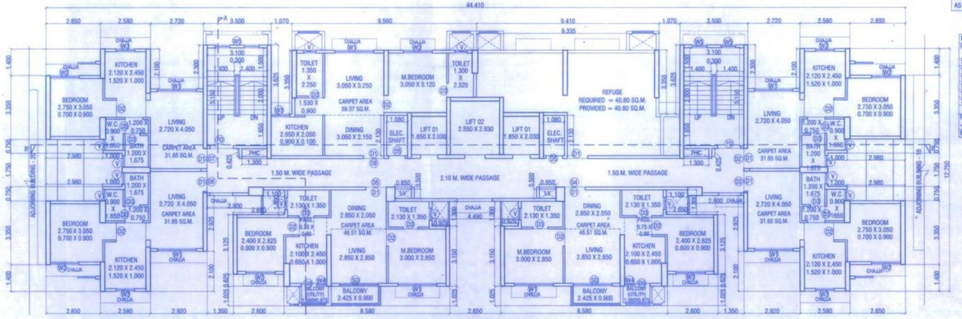
B1.	1.555 X 1.025 X 2	=	3.19
B2.	2.625 X 1.025 X 2	=	5.38
TOTAL BALCONY AREA		=	8.57 SQ.M.
AS PER POLY LINE		=	8.57 SQ.M.
PERMISSIBLE BAL. AREA			
10 % OF 341.49		=	34.15 SQ.M.
PROPOSED BAL. AREA		=	8.57 SQ.M.
PROPOSED BUILT UP AREA OF 2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR = 341.49 SQ.M.			

STAIRCASE AND PASSAGE AREA CALCULATION 2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR :
ADDITION FOR

S1.	3.500	X 2.300 X 2	=	16.10
S2.	3.300	X 1.325 X 2	=	8.75
S3.	3.100	X 1.825 X 2	=	11.32
P1.	3.100	X 2.175 X 2	=	13.49
P2.	2.900	X 0.300 X 2	=	1.74
P3.	0.900	X 1.650 X 2	=	2.97
P4.	5.250	X 1.500 X 2	=	15.75
P5.	1.080	X 3.780 X 2	=	8.16
P6.	1.280	X 1.700 X 2	=	4.35
P7.	2.230	X 0.600 X 2	=	2.68
P8.	4.490	X 2.450	=	11.00
TOTAL STAIRCASE AREA			=	96.31 SQ.M.
DEDUCTION FOR				
D1.	1.300	X 0.425 X 2	=	1.11
D2.	0.850	X 0.500 X 2	=	0.85
D3.	1.080	X 2.130 X 2	=	4.60
TOTAL DUCT AREA			=	6.56 SQ.M.
= 96.31 - 6.56 = 89.75 SQ.M.				
AS PER POLY LINE = 89.74 SQ.M.				



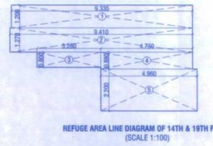
2ND TO 7TH, 9TH TO 13TH, 15TH TO 18TH, 20TH TO 23RD FLOOR PLAN
SCALE 1:100



14TH & 19TH REFUGE FLOOR PLAN
SCALE 1:100

REFUGE AREA REQUIRED ON 14TH FLOOR			
FLOOR	R.UP. AREA	BALC. AREA	TOTAL
14TH	296.93	8.57	331.87 SQ.M.
15TH	341.49	8.57	350.06 SQ.M.
16TH	341.49	8.57	350.06 SQ.M.
17TH	341.49	8.57	350.06 SQ.M.
18TH	341.49	8.57	350.06 SQ.M.
TOTAL	1762.81 SQ.M.		
1762.81 / 12.50 = 140.97 PERSONS ED PER PERSON 0.30 SQ.M.			
= 139 X 0.30 = 41.70 SQ.M.			
REFUGE AREA PROVIDED = 40.80 SQ.M.			

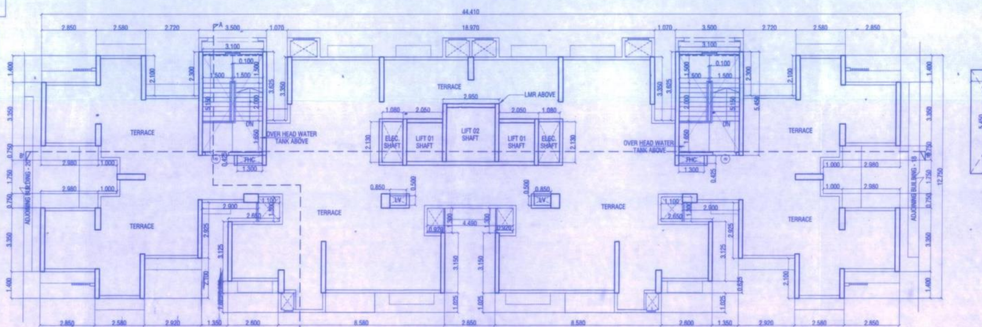
REFUGE AREA REQUIRED ON 19TH FLOOR			
FLOOR	R.UP. AREA	BALC. AREA	TOTAL
19TH	296.93	8.57	331.87 SQ.M.
20TH	341.49	8.57	350.06 SQ.M.
21ST	341.49	8.57	350.06 SQ.M.
22ND	341.49	8.57	350.06 SQ.M.
23RD	341.49	8.57	350.06 SQ.M.
TOTAL	1762.81 SQ.M.		
1762.81 / 12.50 = 136.57 PERSONS ED PER PERSON 0.30 SQ.M.			
= 139 X 0.30 = 41.70 SQ.M.			
REFUGE AREA PROVIDED = 40.80 SQ.M.			



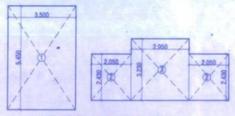
REFUGE AREA LINE DIAGRAM OF 14TH & 19TH FLOOR
(SCALE 1:100)

REFUGE AREA CALCULATION OF 14TH & 19TH FLOOR: BLOCK - R

1.	9.335 X 1.200	=	11.20
2.	9.410 X 1.270	=	11.95
3.	3.200 X 0.800	=	2.62
4.	4.730 X 0.880	=	4.16
5.	4.490 X 2.200	=	10.81
TOTAL		=	40.84 SQ.M.
AS PER POLY LINE AREA = 40.80 SQ.M.			



TERRACE FLOOR PLAN
SCALE 1:100



AREA LINE DIG. OF L.M.R. AND O.H.T. FLOOR
SCALE 1:100

AREA CALCULATION OF L.M.R. AND O.H.T. FLOOR :

1.	3.500 X 5.450 X 2	=	38.15
2.	2.050 X 2.450 X 2	=	9.96
3.	2.950 X 3.230	=	9.53
TOTAL AREA		=	57.64 SQ.M.
AS PER POLY LINE		=	57.64 SQ.M.

BUILDING - 19
(STILT FLOOR +1ST TO 23RD FLOOR)

9/32

CONTENTS OF SHEET

TYPICAL FLOOR PLAN, 8TH, 14TH & 19TH REFUGE, TERRACE FLOOR PLAN, AREA DIAGRAM & AREA CALCULATIONS, REFUGE AREA, CALCULATIONS ETC.

STAMP OF APPROVAL OF PLAN

PLANS APPROVED (32 NOS OF DRAWINGS) WHICH ARE TO BE READ ALONG WITH COMMENCEMENT CERTIFICATE / AMENDED COMMENCEMENT CERTIFICATE ISSUED UPTO PLINTH LEVEL BEARING NO. SB01/ 37 VILLAGE(S) 214(1) ZP CC (SAGAON) GHARIVLI DATE - SAGAON-01/SR-A/OCL TP (2)/3228/2019 DTD 16/01/2020 AND THE CONDITIONS MENTIONED THEREIN

16 JAN 2020

Planner
Planning Division
MMRDA

SCHEDULE OF DOOR & WINDOW

S.NO.	TYPE DOOR & WINDOW	OPENING SIZE	DESCRIPTION
1	FD	1.20 x 2.25	SINGLE SHUTTER FIRE RATED FLUSH DOOR
2	D1	1.05 x 2.25	SINGLE SHUTTER FIRE RATED FLUSH DOOR
3	D2	0.90 x 2.25	SINGLE SHUTTER FLUSH DOOR
4	D3	0.75 x 2.25	SINGLE SHUTTER FLUSH DOOR
5	W1	2.00 x 1.30	3 PANEL SLIDING ALLUMINIUM WINDOW
6	W2	1.50 x 1.30	2 PANEL SLIDING ALLUMINIUM WINDOW
7	W3	0.95 x 1.30	2 PANEL SLIDING ALLUMINIUM WINDOW
8	W4	0.55 x 1.30	1 PANEL SLIDING ALLUMINIUM WINDOW
9	W5	0.75 x 2.05	3 PANEL SLIDING ALLUMINIUM DOOR
11	SD	2.00 x 2.25	3 PANEL SLIDING ALLUMINIUM DOOR
12	V	0.60 x 1.05	LOUVERED VENTILATOR

DESCRIPTION OF PROPOSAL

PROPOSED **INTEGRATED TOWNSHIP PROJECT** ON PLOT BEARING VILLAGE SAGAON BEARING S.NO. 67/1 VILLAGE - GHARIVALI BEARING S. NO. 4/1, 4/2, 4/3, 4/4, 4/5, 4/6, 4/9, 4/10, 4/11, 5/1, 5/2, 5/3, 5/4, 5/5, 5/6, 6/1, 6/2, 6/3, 7/1, 7/2/A, 7/2/B, 7/2/C, 7/3/A, 7/3/B,8/1, 8/2, 8/3, 8/4, 8/5, 8/6, 8/7, 8/8, 8/9, 9/1, 9/2, 9/3, 9/4, 9/5, 9/6, 9/7, 9/8, 10, 11, 12/1, 13/2, 12/3, 12/4, 12/5, 12/6, 13/7, 12/8, 12/9, 12/10, 12/11, 12/12, 12/13, 12/14, 13, 14/1, 14/2A, 14/2B, 14/3, 14/4, 14/5, 15, 16/1, 16/2,17/1, 17/2, 17/3, 17/4, 17/5, 17/6, 17/7, 17/8, 17/9, 17/10, 17/11,18,19, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4, 22, 23/1, 23/2, 23/3, 23/10, 37/1,37/2B, 37/2C, 37/2D, 37/3, 37/4, 37/21,39/1, 38/2, 39/1, 39/2, 39/3, 40, 41/1A, 41/1B, 41/2, 41/3, 41/4, 44/1, 44/4,44/5A, 44/5B, 44/6A, 44/6B, 44/7, 44/8, 44/9, 44/10, 44/11, 44/12, 44/13, 44/14, 44/15, 44/16, 44/17, 44/18, 44/19, 44/20, 49_50/1, 50/2, 50/3, 51/1, 51/2, 56/1,56/2 DIST- THANE AND VILLAGE USARIGHAR BEARING S.NO. 44/1, 44/2, 44/3, 44/4, 44/5, 44/6, 44/7, 44/8, 44/9, 44/10, 44/11, 44/12, 45/1 ,45/2, 45/3, 45/4, 45/5/A, 45/5/B, 45/6,46/1,46/2A, 46/2B,46/3,47, 48, 50, 51, 52/1, 52/2, 53/1/A, 53/1/B, 53/2/A, 53/2/B, 53/3/A, 53/3/B, 94 DIST- THANE

NAME AND ADDRESS OF / P.O.A.H.

DIRECTOR,
M/S. RUNWAL RESIDENCY PVT. LTD.
RUNWAL & OMKAR ESQUARE,
5TH FLOOR, OPP.SION CHUNABHATTI SIGNAL,
SION (EAST) MUMBAI - 400022.

SIGNATURE OF OWNER / P.O.A.H.

SIGNATURE OF ARCHITECT

ARCHITECTS

saakaar ARCHITECTS
2ND FLOOR, NAKSHATRA, A WING,
NEAR TMC, ALMEIDA ROAD,
PANCHPAKHADI, THANE (W). 400 602
PHONE - 2536 4700 / TELEFAX - 2536 4700
E MAIL - saakaararchitects@yahoo.co.in

DRG.NO.	SCALE	DATE	DRN.BY	CHKD.BY
C:\466\2019\54\09	1 : 100	22/11/2019	MANALI	

C:\2019\07\Dashes1\Civil Drawings\ROBBIN GARDENS - PHL PROJECT\23 SHARING\ALL MUNICIPAL & ZIP - Marking As per ZIP - Phase 03\ Building 19.dwg