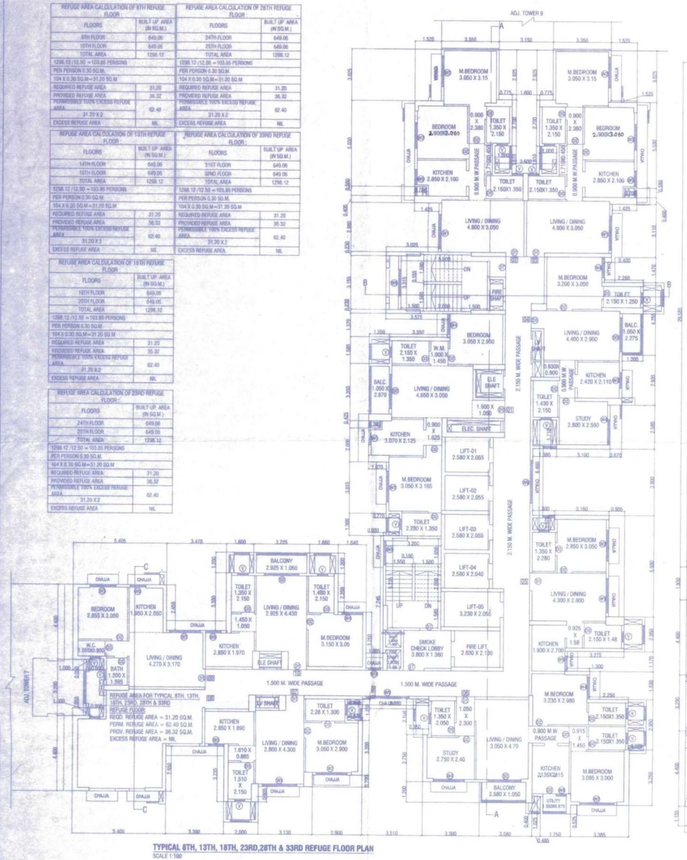
REFUGE AREA CALCULATION OF 8TH REFUGE FLOOR :		REFUGE AREA CALCULATION OF 26TH REFUGE FLOOR :	
FLOORS	BUILT UP AREA (IN SQ.M.)	FLOORS	BUILT UP AREA (IN SQ.M.)
8TH FLOOR	649.09	24TH FLOOR	649.09
10TH FLOOR	649.09	25TH FLOOR	649.09
TOTAL AREA	1298.18	TOTAL AREA	1298.12
1298.18 /12.50 = 103.85 PERSONS		1298.12 /12.50 = 103.85 PERSONS	
PER PERSON 0.30 SQ.M.		PER PERSON 0.30 SQ.M.	
104.5 0.30 SQ.M=31.35 SQ.M		104.5 0.30 SQ.M=31.35 SQ.M	
REQUIRED REFUGE AREA	31.35	REQUIRED REFUGE AREA	31.35
PROVIDED REFUGE AREA	36.32	PROVIDED REFUGE AREA	36.32
PERMISSIBLE 100% EXCESS REFUGE AREA	62.40	PERMISSIBLE 100% EXCESS REFUGE AREA	62.40
31.35*2		31.35*2	
EXCESS REFUGE AREA	NIL	EXCESS REFUGE AREA	NIL

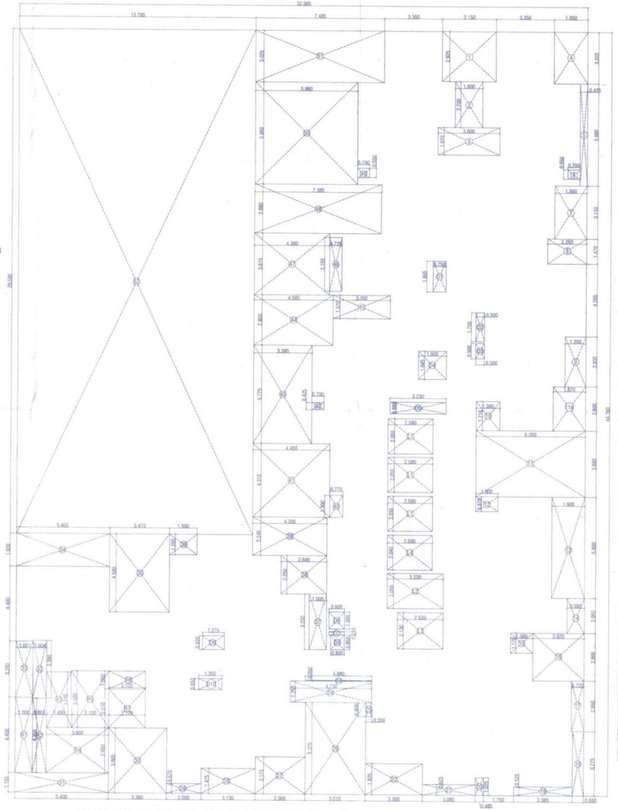
REFUGE AREA CALCULATION OF 13TH REFUGE FLOOR :		REFUGE AREA CALCULATION OF 29TH REFUGE FLOOR :	
FLOORS	BUILT UP AREA (IN SQ.M.)	FLOORS	BUILT UP AREA (IN SQ.M.)
14TH FLOOR	649.09	31ST FLOOR	649.09
15TH FLOOR	649.08	32ND FLOOR	649.06
TOTAL AREA	1298.12	TOTAL AREA	1298.12
1298.12 /12.50 = 103.85 PERSONS		1298.12 /12.50 = 103.85 PERSONS	
PER PERSON 0.30 SQ.M.		PER PERSON 0.30 SQ.M.	
104.5 0.30 SQ.M=31.35 SQ.M		104.5 0.30 SQ.M=31.35 SQ.M	
REQUIRED REFUGE AREA	31.35	REQUIRED REFUGE AREA	31.35
PROVIDED REFUGE AREA	36.32	PROVIDED REFUGE AREA	36.32
PERMISSIBLE 100% EXCESS REFUGE AREA	62.40	PERMISSIBLE 100% EXCESS REFUGE AREA	62.40
31.35*2		31.35*2	
EXCESS REFUGE AREA	NIL	EXCESS REFUGE AREA	NIL

REFUGE AREA CALCULATION OF 18TH REFUGE FLOOR :	
FLOORS	BUILT UP AREA (IN SQ.M.)
19TH FLOOR	649.09
20TH FLOOR	649.08
TOTAL AREA	1298.12
1298.12 /12.50 = 103.85 PERSONS	
PER PERSON 0.30 SQ.M.	
104.5 0.30 SQ.M=31.35 SQ.M	
REQUIRED REFUGE AREA	31.20
PROVIDED REFUGE AREA	36.32
PERMISSIBLE 100% EXCESS REFUGE AREA	62.40
31.20*2	
EXCESS REFUGE AREA	NIL

REFUGE AREA CALCULATION OF 23RD REFUGE FLOOR :	
FLOORS	BUILT UP AREA (IN SQ.M.)
24TH FLOOR	649.09
25TH FLOOR	649.03
TOTAL AREA	1298.12
1298.12 /12.50 = 103.85 PERSONS	
PER PERSON 0.30 SQ.M.	
104.5 0.30 SQ.M=31.35 SQ.M	
REQUIRED REFUGE AREA	31.20
PROVIDED REFUGE AREA	36.32
PERMISSIBLE 100% EXCESS REFUGE AREA	62.40
31.20 X 2	
EXCESS REFUGE AREA	NIL

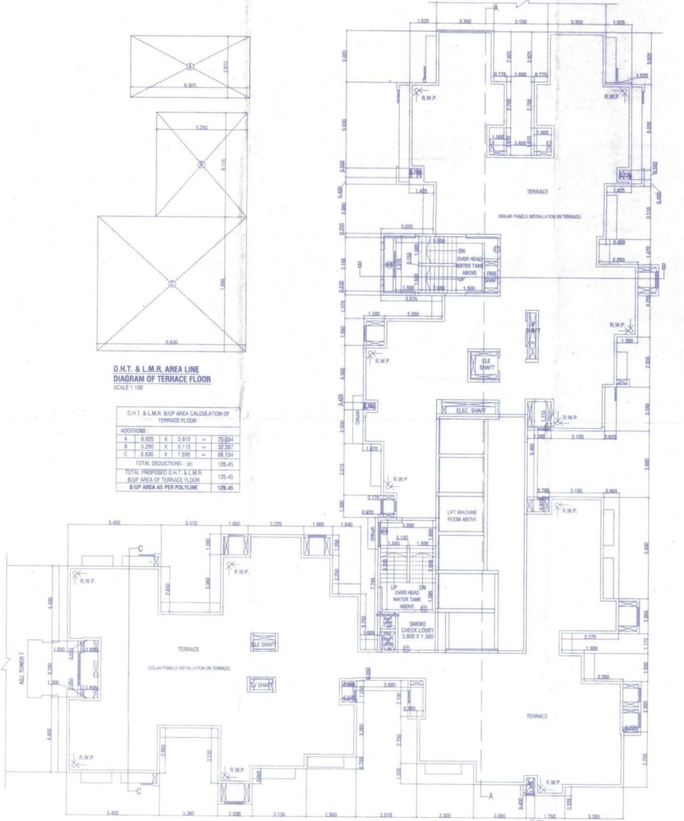


TYPICAL 8TH, 13TH, 18TH, 23RD,28TH & 33RD REFUGE FLOOR PLAN
SCALE 1:100



AREA LINE DIAGRAM OF TYPICAL 8TH, 13TH, 18TH, 23RD, 28TH & 33RD REFUGE FLOOR PLAN
SCALE 1:100

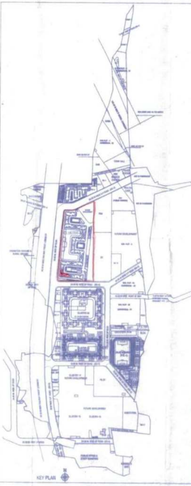
B/UP AREA CALCULATION OF 8TH, 13TH, 18TH, 23RD, 28TH & 33RD REFUGE FLOOR :			
A	32.095	X 44.765	= 1476.409
TOTAL			= 1476.41
DEDUCTIONS :			
1	3.150	X 2.975	= 9.214
2	1.850	X 2.700	= 4.320
3	3.600	X 1.610	= 5.796
4	1.350	X 3.025	= 3.859
5	0.425	X 5.980	= 2.542
6	0.700	X 0.500	= 0.385
7	1.850	X 3.110	= 5.753
8	2.250	X 1.470	= 3.307
9	1.350	X 2.930	= 3.955
10	1.350	X 1.710	= 2.360
11	5.350	X 1.350	= 14.558
11a	1.870	X 2.500	= 4.652
12	1.300	X 0.875	= 1.131
13	1.900	X 5.550	= 11.367
14	0.965	X 2.050	= 1.240
15	1.300	X 1.170	= 1.521
16	2.870	X 1.200	= 3.316
17	0.700	X 2.950	= 2.124
18	0.650	X 3.775	= 2.454
19	1.385	X 0.525	= 1.777
20	0.485	X 1.025	= 0.497
21	1.080	X 0.625	= 1.955
22	3.300	X 1.820	= 6.022
23	1.350	X 2.050	= 5.194
24	4.730	X 1.250	= 5.913
25	0.350	X 1.900	= 0.285
26	3.510	X 5.375	= 18.866
27	2.950	X 2.715	= 8.307
28	3.130	X 1.475	= 4.671
29	2.000	X 0.570	= 1.140
30	1.350	X 3.400	= 12.899
31	5.405	X 1.155	= 6.243
32	0.854	X 3.350	= 2.728
33	1.067	X 3.298	= 3.293
34	5.405	X 1.950	= 10.432
35	3.479	X 4.589	= 15.893
36	1.900	X 1.200	= 1.920
37	1.005	X 3.250	= 3.266
38	1.045	X 2.250	= 5.951
39	4.305	X 2.345	= 9.865
40	5.770	X 1.300	= 1.001
41	4.450	X 4.335	= 19.223
42	5.700	X 0.421	= 3.700
43	3.385	X 5.728	= 19.548
44	4.585	X 2.950	= 13.526
45	1.300	X 1.375	= 4.160
46	0.775	X 3.150	= 2.287
47	4.360	X 3.811	= 15.761
48	2.385	X 2.880	= 31.269
49	5.700	X 0.550	= 0.388
50	5.960	X 5.880	= 15.647
51	7.485	X 3.021	= 12.642
52	13.700	X 29.845	= 408.849
TOTAL DEDUCTIONS : (a)			782.76
DUCT AREA CALCULATIONS :			
D1	0.750	X 1.891	= 1.354
D2	0.550	X 1.750	= 1.650
D3	2.500	X 0.900	= 0.450
D4	1.600	X 1.545	= 2.632
D5	3.230	X 0.680	= 1.196
D6	0.900	X 1.000	= 0.900
D7	0.900	X 0.710	= 0.189
D8	0.800	X 0.850	= 0.680
D9	1.773	X 0.850	= 1.046
D10	1.350	X 0.650	= 0.878
TOTAL DUCT AREA : (b)			11.77
LIFT AREA CALCULATIONS :			
L1	2.580	X 2.055 X 3	= 15.906
L2	3.230	X 2.055	= 6.638
L3	2.630	X 2.130	= 5.602
L4	2.580	X 2.040	= 5.263
TOTAL LIFT AREA : (c)			33.41
REFUGE AREA CALCULATIONS :			
R1	1.000	X 4.400	= 4.400
R2	0.805	X 4.350	= 3.502
R3	1.460	X 5.240	= 4.765
R4	3.500	X 2.650	= 9.540
R5	2.150	X 3.330	= 7.138
R6	2.120	X 1.006	= 2.378
R7	2.120	X 2.278	= 4.813
TOTAL REFUGE AREA : (d)			36.32
REFUGE AREA AS PER POLYLINE			36.32
TOTAL (a+b+c+d+e)			863.66
TOTAL PROPOSED B/UP AREA OF REFUGE FLOOR			612.74
B/UP AREA AS PER POLYLINE			**612.74**



O.H.T. & L.M.R. AREA LINE DIAGRAM OF TERRACE FLOOR
SCALE 1:100

O.H.T. & L.M.R. B/UP AREA CALCULATION OF TERRACE FLOOR :			
ADDITIONS :			
A	5.925	X 3.615	= 25.694
B	5.250	X 5.115	= 22.267
C	5.630	X 7.995	= 68.134
TOTAL DEDUCTIONS : (a)			125.45
TOTAL PROPOSED O.H.T. & L.M.R. B/UP AREA OF TERRACE FLOOR			125.45
B/UP AREA AS PER POLYLINE			**125.45**

TERRACE FLOOR PLAN
SCALE 1:100



CLUSTER - 8 TOWER - 8 (BASEMENT + GROUND (PT) / STILT (PT) FLOOR + 1ST TO 33RD FLOOR) 54/81

CONTENTS OF SHEET

REFUGE FLOOR PLAN ,TERRACE FLOOR & AREA DIAGRAM AND CALCULATION ETC.

STAMP OF APPROVAL OF PLAN

PLANS APPROVED U/S 31 (1) & (2) OF MRTP ACT, 1966 WHICH ARE TO BE READ ALONG WITH BUILDING PERMISSION & OC NOC CERTIFICATE/AMENDED BUILDING PERMISSION & COMMENCEMENT CERTIFICATE VIDE NO. ...

DATE : 23.06.2023

AND THE CONDITIONS MENTIONED THEREIN.

Assistant Director, Town Planning, Sub-Region-I, Thane, MMRDA

MMRDA

SCHEDULE OF DOOR & WINDOW

TYPE	SIZE	DESCRIPTION
ST	1.20 X 2.40	SINGLE SHUTTER FIRE RATED FLUSH DOOR
D1	1.05 X 2.40	SINGLE SHUTTER FIRE RATED FLUSH DOOR
D2	0.90 X 2.40	SINGLE SHUTTER FLUSH DOOR
D3	0.75 X 2.40	SINGLE SHUTTER FLUSH DOOR
SD	2.00 X 2.10	SINGLE SHUTTER FLUSH DOOR
W1	2.90 X 2.10	ALUMINIUM SLIDING WINDOW
W2	1.80 X 2.10	ALUMINIUM SLIDING WINDOW
W3	1.50 X 2.10	ALUMINIUM SLIDING WINDOW
W4	1.13 X 2.10	ALUMINIUM SLIDING WINDOW
W5	0.90 X 2.10	ALUMINIUM SLIDING WINDOW
W6	0.60 X 1.50	ALUMINIUM SLIDING WINDOW
W7	0.75 X 1.50	ALUMINIUM SLIDING WINDOW
W8	1.415 X 1.50	ALUMINIUM SLIDING WINDOW
W9	2.50 X 1.50	ALUMINIUM SLIDING WINDOW
W10	0.75 X 1.50	ALUMINIUM SLIDING WINDOW
V	0.90 X 2.10	LOUVERED OPENABLE SERVICE DOOR

DESCRIPTION OF PROPOSAL

PROPOSED **INTEGRATED TOWNSHIP PROJECT** ON PLOT BEARING VILLAGE - USARGHAR BEARING S. NO. 171/1,172, 173/A, 173/B, 174, 175, 191,192,193,194,250,250/A,250/B,254,255,341,56,71A, 36/1B, 37/1, 37/2, 38/1, 38/2, 38/3, 38/4, 73/9, 73/10, 73/11, 71/1, 71/2, 71/3, 71/4, 71/5, 91/1, 91/2, 91/3, 91/4, 91/5, 92/1, 92/2, 93/P, 102/2,103/3,103/4,103/5,103/6/A, 103/6/B, 103/7, 103/8, 103/9, 103/10, 103/11,103/12,103/14/B, 103/15, 103/16, 103/17, 103/18, 106/2,106/3,107/1, 107/2/A, 107/2/B, 107/3, 107/4, 107/5, 107/6, 107/7, 107/8, 107/9, 107/10, 107/11, 107/12, 107/14, 107/15, 107/16, 107/17, 107/18, 107/19, 107/20, 107/22,107/23, 107/24,107/25A,107/25B, 107/26A,107/26B,108/1, 108/2, 108/3, 109P, 134/1, 134/2,134/3 DIST- THANE AND VILLAGE SANDAP BEARING S. NO. 2, 2/1 DIST- THANE

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

M/S. HORIZON PROJECTS PVT. LTD.
RUNWAL GROUP, RUNWAL & OMKAR ESQUIRE,
5TH FLOOR, OPP.SION CHUNABHATTI SIGNAL,
SION (EAST) MUMBAI - 400022.

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

SIGNATURE OF ARCHITECT

ARCHITECTS

sabkar ARCHITECTS
2ND FLOOR, NAKSHATRA, A WING,
NEAR TMC, ALMEDIA ROAD,
PANCHPAKHADI, THANE (W). 400 602
PHONE - 2537 8701,TELEFAX - 2536 4700
E MAIL - sabkararchitects@yahoo.co.in

DRG.NO.	SCALE	DATE	DRN. BY	CHKD. BY
C-699/2013/M/54	1 : 100	23/06/2023	TUSHAR	SADAK