

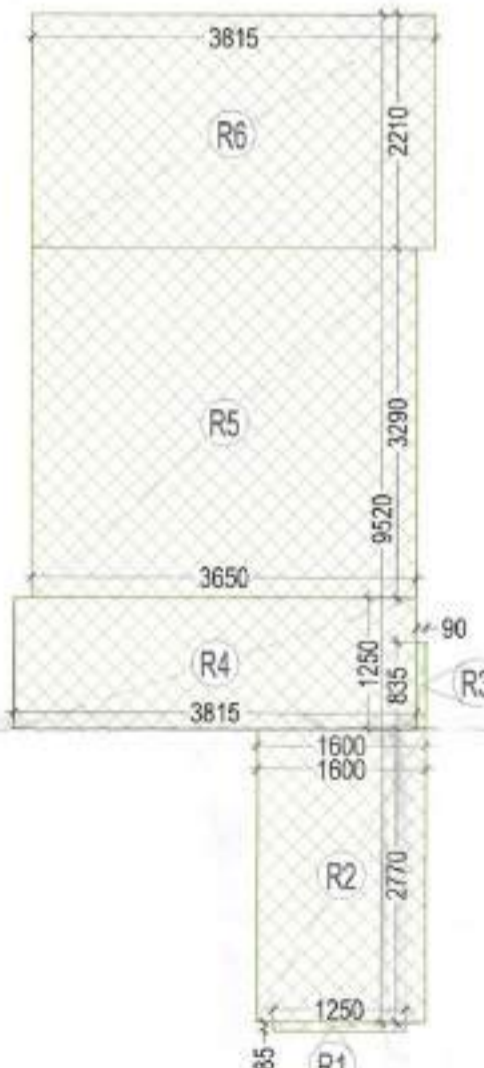
**TOWER B1 & B2 REFUGE FLOOR PLAN**  
18TH, 27TH & 36TH FLOOR

**TOWER B1 & B2 REFUGE FLOOR PLAN AREA DIAGRAM**  
18TH, 27TH & 36TH FLOOR

FAR AREA OF TOWER TYPE - 1				
AT REFUGE (18TH, 27TH & 36TH) FLOOR LEVEL				
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N)
A	37.240	27.93	1	1040.113
<b>TOTAL (A)</b>				<b>1040.113</b>
DEDUCTIONS				
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N)
1	5.640	5.260	2	59.333
2	3.515	0.140	2	0.984
3	1.825	4.180	2	15.257
4	1.750	1.190	2	4.165
4A	0.750	0.140	2	0.210
5	5.640	2.690	2	30.343
6	0.750	2.450	2	3.675
7	10.900	3.655	1	39.840
8	3.815	2.690	2	20.525
9	0.750	2.450	2	3.675
10	0.750	0.140	2	0.210
11	1.750	1.130	2	3.955
12	1.825	0.140	2	0.511
13	3.815	5.275	2	40.248
14	4.260	0.140	2	1.193
15	6.790	4.675	1	31.743
16	2.640	0.140	2	0.739
17	3.650	0.140	1	0.511
18	3.730	3.015	1	11.246
19	6.725	3.655	1	24.580
20	13.660	4.650	1	63.519
21	2.380	0.140	2	0.666
22	7.380	0.140	2	2.066
23	6.790	2.465	1	16.737
24	2.975	2.210	1	6.575
R1	1.250	0.085	1	0.106
R2	1.600	2.770	1	4.432
R3	0.090	0.835	1	0.075
R4	3.815	1.250	1	4.769
R5	3.650	3.290	1	12.009
R6	3.815	2.210	1	8.431
<b>TOTAL (D)</b>				<b>412.328</b>

LIFT & SERVICES SHAFTS				
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N)
S1	2.300	2.615	3	18.044
S2	1.560	1.450	1	2.262
S3	1.890	1.995	1	3.771
S4	0.895	0.080	1	0.072
S5	0.850	1.395	1	1.186
S6	0.650	1.395	1	0.907
S7	0.295	0.080	1	0.024
S8	1.740	0.500	1	0.870
S9	0.800	1.395	1	1.116
S10	0.740	0.500	1	0.370
S11	0.740	1.930	1	1.428
S12	1.650	0.490	4	3.234
S13	1.050	0.100	4	0.420
<b>TOTAL (S)</b>				<b>33.702</b>
FIRE STAIRCASE & NON FAR AREA				
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N)
N1	0.900	1.175	1	1.058
N2	6.050	2.570	1	15.549
N3	3.250	6.440	1	20.930
N4	4.250	3.655	1	15.534
<b>TOTAL (N)</b>				<b>53.070</b>
FIRE STAIRCASE WELL				
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N)
O1	0.750	1.500	1	1.125
O2	1.750	1.155	1	2.021
<b>TOTAL (W)</b>				<b>3.146</b>
<b>TOTAL NON FAR AREA (NF) = (N - W) + (R)</b>				<b>79.745</b>
<b>TOTAL FAR AREA (F) = (A - D - S - N)</b>				<b>541.013</b>
<b>TOTAL COVERED AREA = (F + NF)</b>				<b>620.758</b>

REFUGE AREA CALCULATION AT 18TH, 27TH & 36TH FLOOR				
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N)
R1	1.250	0.085	1	0.106
R2	1.600	2.770	1	4.432
R3	0.090	0.835	1	0.075
R4	3.815	1.250	1	4.769
R5	3.650	3.290	1	12.009
R6	3.815	2.210	1	8.431
<b>TOTAL (R)</b>				<b>29.822</b>
GROSS AREA at 18th/27th/36th FLOOR (FAR + NON FAR) =				541.013 + 49.924
GROSS AREA at 17th/26th/35th FLOOR (FAR + NON FAR) =				561.893 + 49.924
TOTAL GROSS AREA at 18th/27th/36th & 17th/26th/35th FLOOR (G)				1202.753
B = GROSS AREA (G)/12.5				96.220
C = B * 0.3				28.866
ADDITIONAL SPACE REQUIRED TO ACCOMMODATE WHEEL CHAIR				0.900
TOTAL REFUGE AREA REQUIRED				29.766
TOTAL REFUGE AREA PROVIDED = (R)				29.822



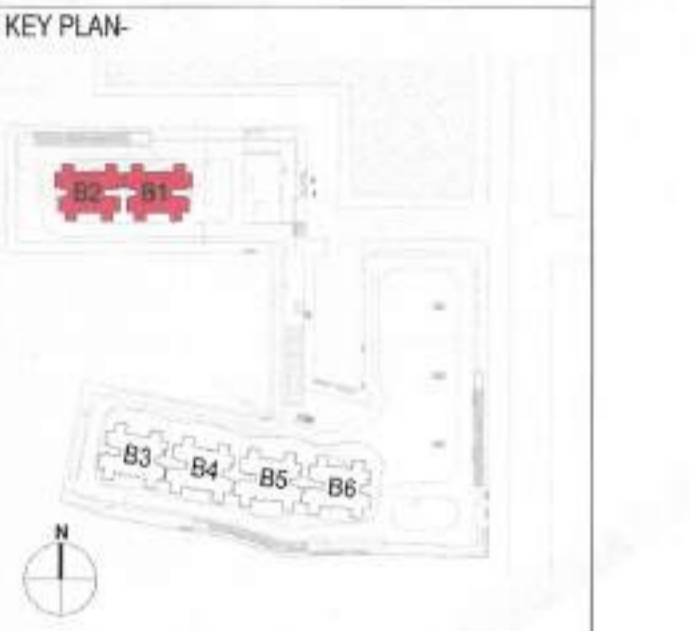
**REFUGE AREA DIAGRAM**

SUMMARY OF MECHANICAL VENTILATION										
Room	Area (sqm)	Effective HT (m)	Volume (CFM)	Air Change (Per Hour)	Calculated CFM	Installed CFM	Application	Max. Fan Capacity (CFM)	Type of Fan	Remarks
General Ventilation										
1 Toilet For Bedrooms 3 - Typical	32.54	9	473	10	76	100	Exhaust	1x100 CFM	Blow Fan	Normal Mode
2 Common Toilet For Bedrooms 1 - Typical	85.6	9	410	10	68	100	Exhaust	1x100 CFM	Blow Fan	Normal Mode

SAISONED TO BE READ WITH THIS OFFICE MEMO NO: 50032 DATED: 25/12/25

H. K. S.P. (H) Member Secretary B.P.A.C.  
S.P. (G) Member B.P.A.C.  
C.P. (H) Chairman B.P.A.C.  
D.T.P. (H) ATP (H)  
J.D. P.A. A.T.P.  
DINESH KUMAR PA (H) Member B.P.A.C.  
Checked and found ok for Public Health (Internal) Service only subject to comments in forwarding letter No. 371622 dt. 26/11/25  
Superintending Engineer (HQ) for Chief Engineer-I H.S.V.P., Panchkula

**NOTE:**  
1. BUILDING HAS AUTOMATIC SPRINKLER SYSTEM WHEREVER REQUIRED BY NBC.  
2. BUILDING WILL BE DESIGNED (STRUCTURES) AS PER RELEVANT IS CODES FOR EARTH QUAKE RESISTANCE.  
3. 100% POWER BACKUP MECHANICAL VENTILATED SHAFTS.



**OWNER:** MSM INDIA INFRASTRUCTURES PVT. LTD.  
**PROJECT:** PROPOSED BUILDING PLAN OF GROUP HOUSING POCKET-B AREA MEASURING 9.1521 ACRES, PART OF INDUSTRIAL PLOTTED COLONY OVER AN AREA MEASURING 139.79375 ACRES LICENSE NO.168 OF 2025 DATED 08.09.2025 IN THE REVENUE ESTATE OF VILLAGE 34S HARRA AND JHUND SARNA ABAD, IN SECTOR M9, M10 AND M11 GURUGRAM MANESAR URBAN COMPLEX  
**ARCHITECTS:** STUDIO SYMBIOSIS  
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1301, TOWER-E, SKYMARK ONE SECTOR 98, NOIDA, U.P. 201301, NOIDA  
TEL: +91 9105 420876  
E-MAIL: INFO@STUDIOSYMBIOSIS.COM WWW.STUDIO-SYMBIOSIS.COM  
**OWNER'S SEAL & SIGNATURE:** For MSM India Infrastructures Pvt. Ltd.  
**ARCHITECT'S SEAL & SIGNATURE:** AMIT GUPTA Architect  
DATE: SCALE: 1:100 DWG NO: FP-B1B2-RE-01  
DWG TITLE: REFUGE FLOOR PLAN TOWER B1 & B2