

Typical Floor
18th to 38th

Checked and found ok for Public Health
(Internal) Service only subject to comments in
in forwarding letter No 236338 Dated 14/11/2023

Signature
S.T.P (H) S.T.P (G) S.T.P (H)
Member Member Member
B.P.A.C. B.P.A.C. B.P.A.C.
Consultant Architect
Ram Arav Bassi
JD(HQ)

TO BE READ WITH THIS OFFICE
DATE: 11.01.2024
SIGNED: [Signature]

S.NO.	DOOR TAG	WIDTH	UNTEL	CUL	LOCATION	FIRE RATING
1	D1	1050	2350	0	BEDROOMS	
2	D2	900	2350	0	TOILETS	
3	D3	700	2350	0	STAFF TOILET	
4	D4	800	2350	0	STAFF ROOM	
5	D5	900	2350	0	KITCHEN	
6	SD1	5200	2350	0	DRAWING ROOM	
7	SD2	3785	2350	0	DRAWING ROOM	
8	SD3	3365	2350	0	FAMILY LOUNGE	
9	SD4	3075	2350	0	M.BEDROOM-1	
10	SD5	4000	2350	0	DRAWING ROOM	
11	SD6	3625/2135	2350	0	M.BEDROOM-2	
12	SD7	3180	2350	0	BEDROOM-02	
13	SD8	2340	2350	0	DINING AREA	
14	SD9	2200	2350	0	M.BEDROOM-1	
15	SD10	1075	2350	0	KITCHEN	
16	SD11	2850	2350	0	M.BEDROOM-1	
17	SD12	4970/1145	2350	0	M.BEDROOM-2	
18	SD13	2640/4410	2350	0	DINING	
19	SD14	1880	2350	0	LOUNGE	

S.NO.	WINDOW	WIDTH	UNTEL	CUL	LOCATION	FIRE RATING
1	W1	1200	2350	1100	STAFF ROOM	
2	W2	2350	2350	900	STAIRCASE	
3	W3	1360	2350	1100	KITCHEN	
4	W4	900	2350	900	BEDROOM	
5	V1	600	2350	1100	TOILETS	
6	V2	750	2350	1100	TOILET	

S.NO.	DOOR TAG	WIDTH	UNTEL	CUL	LOCATION	FIRE RATING
1	FD1	1500	2350	0	MAIN DOOR	1 HRS
2	FD2	1000	2350	0	STAFF ENTRY	2 HRS
3	FD3	1250	2350	0	LIFT & STAIRCASE LOBBY	2 HRS
4	FD4	1250	2350	0	LIFT & STAIRCASE LOBBY	2 HRS
5	FD5	930	2350	1100	M.V. SHAFT	2 HRS
6	FD6	1435	2350	1100	SHAFT	2 HRS
7	FD7	660	2350	1100	LV SHAFT	2 HRS
8	FD8	1145	2350	1100	FHC SHAFT	2 HRS

- NOTES:-
1. VRF system is being provided.
 2. Full DCS power back up is being provided.
 3. Toilets are mechanical ventilated.
 4. All lifts shall have 100% power back-up.
 5. All electrical installations shall be as per provision of nbc.
 6. Fire-fighting/safety provisions will be as per relevant nbc provisions.
 7. Basement area shall have mechanical ventilation as per relevant code.
 8. All toilets are ventilated as per hyarano building code 2017.
 9. Building has automatic sprinkler system wherever required by nbc.
 10. Building will be designed (structures) as per relevant I.A. codes for earthquake resistance.
 11. Solar panels of required capacity shall be provided on roof top as per narehata/zoning norms.
 12. All handicap ramps with railing.
 13. All lifts have 1 hour fire rated entrance door.
 14. All fire-fighting installations shall be as per provision of nbc.
 15. The rainwater harvesting system shall be provided as per central ground water authority norms.

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STRUCTURAL CONSULTANT:
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PERCEPTIVE IDEAS CONSULTING ENGINEERS PVT. LTD.

MEP:
PARADISE CONSULTANTS
PLOT NO. 129, POCKET-2, BASEMENT
JASOLA VIHAR, NEW DELHI-110025
Ph: 011-46132800, 41000419
E-mail: mep@paradiseconsultants.com

ARCHITECTS:
ARCOP
Arcop Associates Pvt. Ltd.
High 360, Sec-32, Gurgaon-122001
Ph: 26240550, 26242169

PROJECT TITLE:
PROPOSED BUILDING PLANS OF GROUP
HOUSING COLONY OVER AN AREA
MEASURING 4.5875 ACRES (LICENCE NO.75 OF
2022 DATED 15.04.2022) FALLING IN THE
REVENUE ESTATE OF VILLAGE, GWAL PAHARI,
SECTOR-2, GWAL PAHARI, GURUGRAM BEING
DEVELOPED BY KVELL INFRASTRUCTURE LLP.

ARCHITECTS SIGNATURE
Asha, Architect
Registration No. CA2007140332

CLIENT'S SIGNATURE
KVELL INFRASTRUCTURE LLP
Auth. Sign./Designated Partner

DRAWING TITLE
REFUGE FLOOR PLAN
WITH AREA

Job No. Drawing No.
RISHIKA Checked GP-AR-RF-16
Date 20-10-2023 Scale Revisions
1:100

NOTES:
REFER DRAWING NO. GP-AR-201 FOR ELEVATIONS
REFER DRAWING NO. GP-AR-301 FOR SECTIONS

S.NO.	LENGTH	WIDTH	NOS.	AREA (SQ M)
ADDITIONS				
A	48.365	23.035	1	1114.088
TOTAL ADDITIONS				1114.088
SUBTRACTIONS				
1	2.200	2.900	4	22.000
2	2.850	4.955	2	28.244
3	2.475	0.325	2	1.609
4	1.250	0.490	1	0.613
5	2.000	3.380	1	6.760
6	1.400	0.040	1	0.054
7	11.930	2.150	1	25.650
8	0.675	1.145	1	0.773
9	0.930	1.145	1	1.065
10	1.435	1.145	1	1.643
11	0.445	0.950	2	1.226
12	1.625	1.145	1	1.174
13	0.355	1.145	1	0.406
14	0.415	0.390	2	0.324
15	1.565	5.550	1	8.686
16	1.565	5.515	1	8.631
17	3.490	4.740	1	16.543
18	3.490	4.720	1	16.473
19	3.180	0.325	1	1.034
20	0.800	0.250	1	0.200
21	0.910	0.250	1	0.228
22	1.220	0.350	1	0.427
23	1.425	1.145	1	1.643
24	8.705	2.900	1	25.245
25	0.640	1.970	1	1.261
26	8.265	1.800	1	14.877
27	1.575	0.170	1	0.268
28	1.800	5.975	1	10.755
29	1.800	3.365	1	6.057
30	0.940	9.980	1	9.381
31	1.800	5.060	1	9.108
32	8.995	1.550	1	13.942
33	5.000	1.550	1	7.750
34	8.980	5.280	1	47.414
35	13.050	1.800	1	23.490
36	1.215	1.145	1	1.391
37	3.100	1.800	1	5.580
38	13.050	1.800	1	23.490
39	10.180	5.285	1	53.601
40	8.995	1.550	1	13.942
41	3.655	0.250	1	0.914
42	2.135	8.275	1	17.667
43	1.800	1.180	1	14.724
44	3.935	1.800	1	7.083
45	1.800	4.855	1	8.685
46	18.815	2.950	1	55.504
47	3.700	0.250	1	0.925
48	1.505	0.250	1	0.376
49	0.910	0.300	1	0.273
50	0.800	0.255	1	0.204
51	3.040	0.130	1	0.395
TOTAL SUBTRACTIONS				519.748
TOTAL FAR ON REFUGE FLOOR				594.320

S.NO.	LENGTH (L)	WIDTH (W)	NOS.	AREA (SQ M)
ADDITIONS				
2	2.850	4.955	2	28.244
3	2.475	0.325	2	1.609
4	1.250	0.490	1	0.613
TOTAL ADDITION OF STAIRCASE NON FAR AREA				30.465
TOTAL FAR ON REFUGE FLOOR				594.320
TOTAL STAIRCASE NON FAR AREA				30.465
TOTAL REFUGE TERRACE AREA				30.176
TOTAL REFUGE FLOOR BUA AREA				649.721

S.NO.	LENGTH (L)	WIDTH (W)	NOS.	AREA (SQ M)
1	1.865	1.000	2	3.730
2	1.415	4.235	2	11.985
3	0.550	2.050	2	2.255
4	0.920	2.350	2	4.324
5	5.860	1.345	1	7.882
TOTAL REFUGE TERRACE CARPET AREA				30.176

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18TH, 28TH & 38TH FLOOR REFUGE AREA:
REFUGE AREA CALCULATION
GROSS FLOOR AREA OF 2 CONSECUTIVE FLOORS = $2 \times 614.37 = 1228.74$ Sq.Mts.
OCCUPANT LOAD = $1228.74 / 12.5 = 98.299 \approx 98$ PERSONS
REFUGE AREA REQUIRED = $(98.299 \times 0.3) + 0.9 = 29.48$ Sq.Mts.
TOTAL REFUGE AREA REQUIRED = $(29.48 \times 3 \text{ FLOORS})$ SQ.M.
 $= 88.44$ SQ.M.
PROPOSED REFUGE AREA = $(30.176 \times 3 \text{ FLOORS})$ SQ.M.
 $= 90.528$ SQ.M.

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REFUGE FLOOR PLAN (18th (+60150 LVL) 28th (+91150 LVL), 38th (+121250 LVL) FLOOR)
SCALE: 1:100

REFUGE FLOOR AREA DIAGRAM (18th (+60150 LVL) 28th (+91150 LVL), 38th (+121250 LVL) FLOOR)
SCALE: 1:100