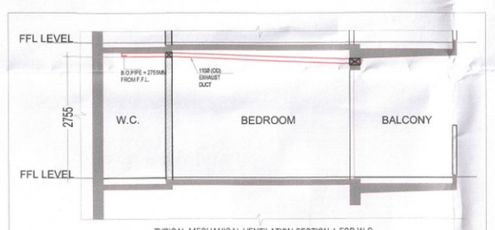
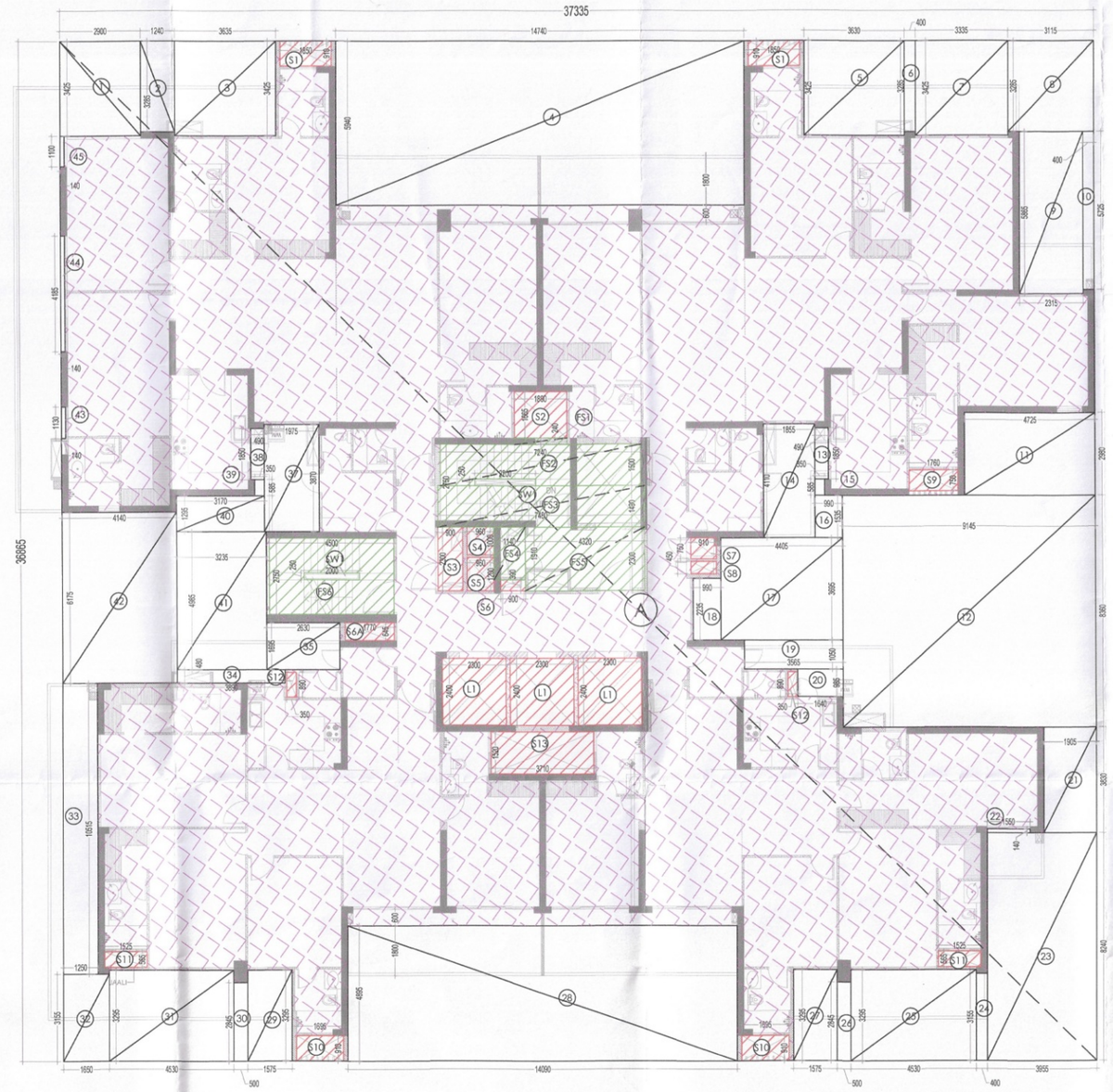


TYPICAL MECHANICAL VENTILATION SECTION 1 FOR W.C.

TYPICAL MECHANICAL VENTIALTION CALCULATION FOR W.C.

S.No.	Location	Area (Sq.ft.)	Height (Ft.)	Volume (Cu.ft.)	Design CFM CFM	SELECTED EXHAUST FAN	FAN SIZE LXBXH (mm)	EXHAUST DUCT SIZE DIAMETER (mm)
1	TYPICAL MECHANICAL VENTIALTION FOR W.C.							
1.1	W.C.	41	10.2	420	84	1# 100 cfm cassette Inline fan	270X270X171	110 (OD)
1.2	W.C.	51	10.2	519	104	1# 100 cfm cassette Inline fan	270X270X171	110 (OD)



TOWER - A
TYPICAL LVL LAYOUT AREA DIAGRAM
(LEVEL - 3rd to 18th & 20th to 26th)

LEGEND:-

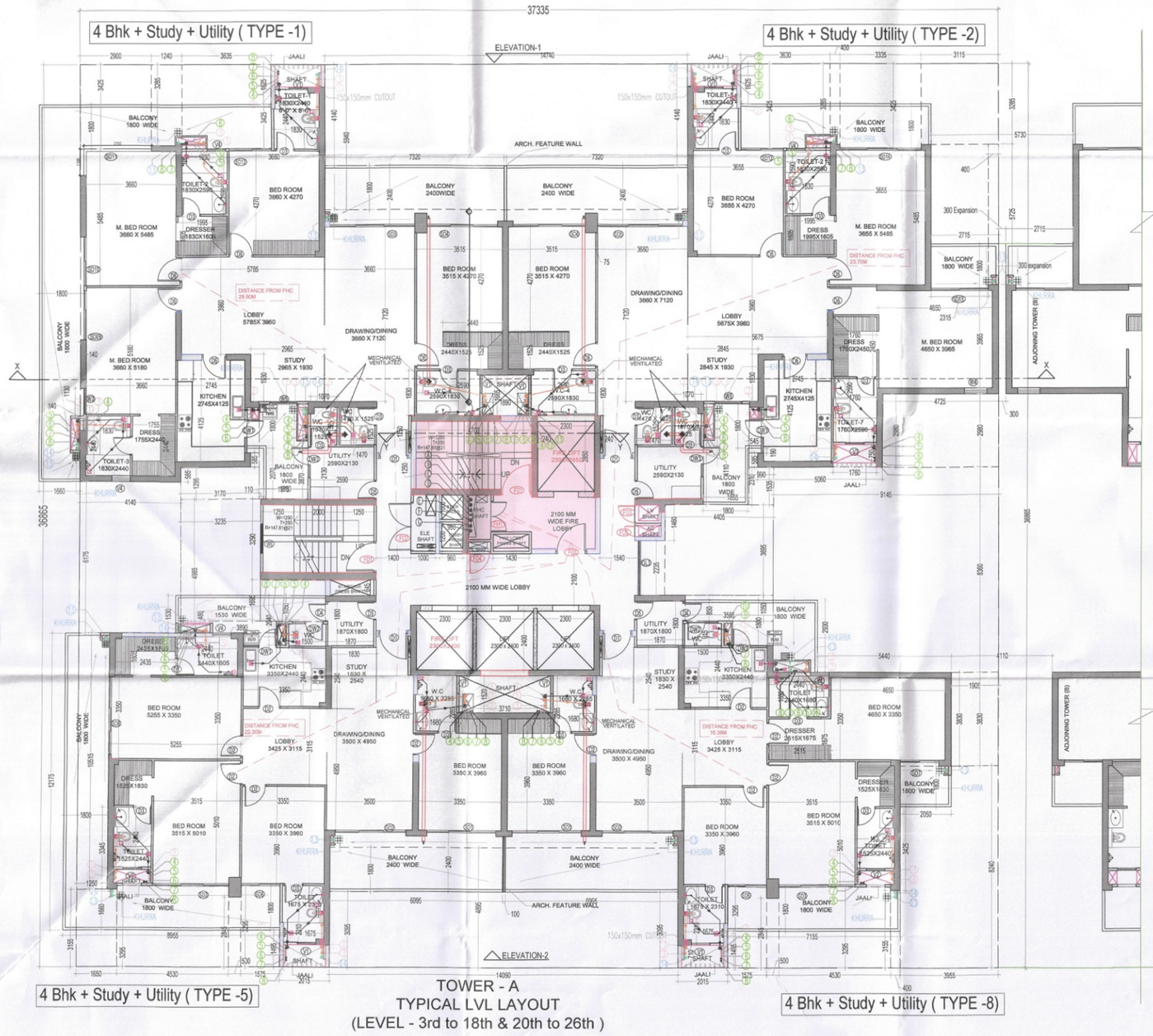
- AREA FAR
- AREA NON FAR
- SERVICE SHAFT (CUTOUT)
- 2 HRS. FIRE RATED FULL HEIGHT WALL
- CARPET AREA

FAR AREA AT TYPICAL FLOOR LVL -TOWER - A
(All Distances are in Meter & Areas in Sqm)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.MT.) = NO.X LENGTH X WIDTH
ADDITIONS (A)				
A	1	37.335	36.865	1376.355
	TOTAL(A) =			1376.355
DEDUCTION (B)				
1	1	2.900	3.425	9.933
2	1	1.240	3.285	4.073
3	1	3.635	3.425	12.450
4	1	14.740	5.940	87.556
5	1	3.630	3.425	12.433
6	1	0.400	3.285	1.314
7	1	3.335	3.425	11.422
8	1	3.115	3.285	10.233
9	1	2.315	5.865	13.577
10	1	0.400	5.725	2.290
11	1	4.725	2.980	14.081
12	1	9.145	8.360	76.452
13	1	0.490	1.850	0.907
14	1	1.855	4.110	7.624
15	1	0.350	0.585	0.205
16	1	0.990	1.535	1.520
17	1	4.405	3.695	16.276
18	1	0.990	2.235	2.213
19	1	3.565	1.050	3.743
20	1	1.640	0.985	1.615
21	1	1.905	3.830	7.296
22	1	1.550	0.140	0.217
23	1	3.955	8.240	32.589
24	1	3.155	0.400	1.262
25	1	4.530	3.295	14.926
26	1	0.500	2.845	1.423
27	1	1.575	3.295	5.190
28	1	14.090	4.895	68.971
29	1	1.575	3.295	5.190
30	1	0.500	2.845	1.423
31	1	4.530	3.295	14.926
32	1	1.650	3.155	5.206
33	1	1.250	10.515	13.144
34	1	3.890	0.480	1.867
35	1	2.630	1.695	4.458
36	Not in use			
37	1	1.975	3.870	7.643
38	1	0.490	1.850	0.907
39	1	0.350	0.585	0.205
40	1	3.170	1.295	4.105
41	1	3.235	4.985	16.126
42	1	4.140	6.175	25.565
43	1	0.140	1.130	0.158
44	1	0.140	4.185	0.586
45	1	0.140	1.100	0.154
	TOTAL			523.451
SERVICE SHAFT & LIFT (C)				
L1	3	2.300	2.400	16.560
S1	2	1.850	0.910	3.367
S2	1	1.890	1.665	3.147
S3	1	0.900	2.300	2.070
S4	1	0.960	1.000	0.960
S5	1	0.960	1.200	1.152
S6	1	0.900	0.390	0.351
S6a	1	1.770	0.645	1.142
S7	1	0.910	0.750	0.683
S8	1	0.910	0.450	0.410
S9	1	1.760	0.750	1.320
S10	2	1.695	0.910	3.085
S11	2	1.525	0.565	1.723
S12	2	0.350	0.890	0.623
S13	1	3.710	1.520	5.639
TOTAL SERVICES AREA				42.231
NON FAR/ STAIRCASE (D)				
FS1	1	1.890	0.240	0.454
FS2	1	7.240	1.500	10.860
FS3	1	7.480	1.490	11.145
FS4	1	1.140	1.910	2.177
FS5	1	4.320	2.300	9.936
FS6	1	4.500	2.750	12.375
TOTAL NON FAR AREA				46.947
DEDUCTION (E)				
SW1	1	2.000	0.250	0.500
SW2	1	2.200	0.250	0.550
TOTAL=				1.050
TOTAL NON FAR AREA (F) = (D-E)				
46.947	-	1.050	=	45.897
TOTAL FAR AREA AT TYPICAL LVL. = ADDITION(A) - DEDUCTION (B+C+D)=				
1376.355	-	523.451	-	42.231
-	46.947	=	763.725	SQ.MT

DOOR WINDOW SCHEDULE TYPICAL & REFUGE FLOOR

TYPE	WIDTH	HEIGHT	SILL LVL.	LINTEL LVL.	REMARKS
D1	1200	2400	± 00	2400	ENTRANCE (ONE HOUR FIRE RATED DOOR)
D1A	1200	2400	± 00	2400	ENTRANCE REFUGE FLOOR (TWO HOUR FIRE RATED DOOR)
D2	900	2250	± 00	2250	BEDROOMS/ KITCHEN ENTRY
D3	750	2250	± 00	2250	TOILETS
D4	750	2500	± 00	2500	UTILITY BALCONY DOOR
D5	750	2400	± 00	2400	UTILITY ENTRANCE (ONE HOUR FIRE RATED DOOR)
D5A	750	2400	± 00	2400	UTILITY ENTRANCE REFUGE LVL (TWO HOUR FIRE RATED DOOR)
D6	900	2250	± 00	2250	BED ROOM/ KITCHEN DOOR
D7	1250	2100	± 00	2100	FIRE RATED DOOR FIRE LOBBY STILT
SD1	2800	2450	± 00	2450	BEDROOM
SD2	2875	2450	± 00	2450	DRAWING ROOM
SD3	3090	2450	± 00	2450	BEDROOM
SD4	2890	2450	± 00	2450	BEDROOM
SD5	3460	2450	± 00	2450	DRAWING ROOM
SD6	1575	2450	± 00	2450	BEDROOM
SD7	1550	2450	± 00	2450	BEDROOM
SD8	3250	2450	± 00	2450	DRAWING ROOM
SD9	2000	2450	± 00	2450	BEDROOM
SD10	1985	2450	± 00	2450	BEDROOM
SD11	1100+2780	2450	± 00	2450	BEDROOM
SD12	2930	2450	± 00	2450	BEDROOM
SD13	1725	2450	± 00	2450	BEDROOM
SD14	3340	2450	± 00	2450	BEDROOM
SD15	3315	2450	± 00	2450	BEDROOM
FD1	1250	2100	± 00	2100	FIRE RATED DOOR FIRE LOBBY AND STAIRCASE
FD2	2000	2000	100	2100	FIRE RATED DOOR ELECTRICAL SHAFT
FD3	750	2000	100	2100	FIRE RATED DOOR L/V SHAFT
FD4	900	2000	100	2100	FIRE RATED DOOR PLUMBING SHAFT
FD5	450	2000	100	2100	FIRE RATED DOOR AC SHAFT
DW1	750/600	2450	0/1050	2450	KITCHEN
DW2	750/350	2450	0/1050	2450	WC
DW3	750/600	2450	0/1050	2450	UTILITY
V1	750	1700	+750	2450	TOILETS
V2	750	1400	+1050	2450	TOILETS
V3	600	1400	+1050	2450	TOILETS
V4	750	1200	+1250	2450	TOILETS
GL1	8205	4800	±00	4800	ENTRANCE LOBBY STILT FLOOR
GL2	8010	2400	±00	2400	ENTRANCE LOBBY STILT FLOOR
GL3	2235	1550	900	2450	LIFT LOBBY
W3	1055	1550	900	2450	BED ROOM
W4	900	1550	900	2450	BED ROOM
W5	1100	1550	900	2450	BED ROOM
W6	1200	1200	1200	--	STAIRCASE



TOWER - A
TYPICAL LVL LAYOUT
(LEVEL - 3rd to 18th & 20th to 26th)

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL STRUCTURAL, MEP DRAWINGS.
2. ANY DISCREPANCY BETWEEN THE VARIOUS DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT IMMEDIATELY.
3. THE DRAWING SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
4. THE FINISHED FLOOR LEVELS GIVEN IN THIS DRAWING ARE WITH RESPECT TO THE CENTRE LINE OF THE FRONT ROAD AT THE MIDDLE OF PLOT AS ± 0.00M.
5. PLEASE FOLLOW SERVICES DRAWING FOR ELECTRICAL AND SERVICES SHAFT DETAIL.
6. FOR STAIRCASE, LIFT LOBBY, TOILET, KITCHEN, RAILING AND BALCONY PLEASE FOLLOW DETAIL DRAWING.

S.T.P.(HQ) Member Secretary B.P.A.C. | S.T.P.(G) Member B.P.A.C. | C.T.P.(HF) Chairman B.P.A.C.

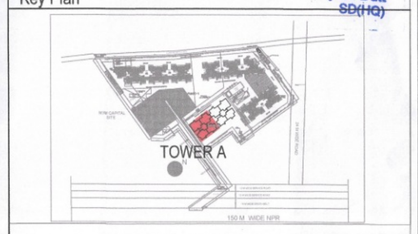
BTP(HQ) | ATP(HQ)

SANCTIONED
TO BE READ WITH THIS OFFICE MEMO NO.: 3474
DATED: 27/1/25

DDJ(T) MEMBER BPAC

AD | PA | ATP Rajesh Dutt SD(HQ)

Key Plan



LEGEND FOR PLUMBING:-

1	110 OD SWR PVC SOIL & VENT PIPE
2	110 OD SWR PVC WASTE & VENT PIPE
3	90 OD SWR PVC ANTI-SUPERNUAL PIPE
4	DOMESTIC WATER SUPPLY DN. 32MM PIPE 27th TO 20th FLOOR
5	DOMESTIC WATER SUPPLY DN. 25MM PIPE 27th TO 19th FLOOR
6	DOMESTIC WATER SUPPLY DN. 20MM PIPE 13th TO GROUND FLOOR
7	FLUSHING WATER SUPPLY DN. 25MM PIPE 27th TO 19th FLOOR
8	FLUSHING WATER SUPPLY DN. 20MM PIPE 13th TO 1st FLOOR
9	DOMESTIC WATER SUPPLY DN. 20MM PIPE 27th TO 20th FLOOR FOR SERVANT TOILET
10	DOMESTIC WATER SUPPLY DN. 20MM PIPE 27th TO 1st FLOOR FOR SERVANT TOILET
11	30# DOMESTIC WATER SUPPLY RISER TO GAST. FILLING
12	30# FLUSHING WATER SUPPLY RISER TO GAST. FILLING
	110 OD uPVC RAIN WATER PIPE (FOR BALCONY)
	110 OD uPVC RAIN WATER PIPE (FOR TERRACE)
*	CUTOUT 150x150 IN SLAB
	FLOOR DRAIN (110x63)
	FLOOR TRAP (110x110)

LEGEND:-

1	150# M.S. FIRE SPRINKLER PIPE (ZONE-1) STILT FLOOR TO 13th FLOOR
2	150# M.S. FIRE SPRINKLER PIPE (ZONE-2) 14th FLOOR TO 28th FLOOR
3	150# M.S. FIRE SPRINKLER PIPE (ZONE-3) 29th FLOOR TO TERRACE FLOOR
4	50# M.S. FIRE SPRINKLER DRAIN PIPE
5	100# M.S. FIRE MAKE-UP LINE
6	100# M.S. FIRE HYDRANT PIPE (LOW ZONE) STILT FLOOR TO 13th FLOOR
7	100# M.S. FIRE HYDRANT PIPE (HIGH ZONE) 14th TO TERRACE FLOOR

Checked and found ok for Public Health (Internal) Service only subject to comments in in forwarding letter No. 1056 dt 3/01/25

Superintending Engineer (HQ) for Chief Engineer-I HSVP, Panchkula

Owner:
Union Buildmart Pvt.Ldt, Vibrant infratech Pvt. Ltd, Targe Buildcon Pvt in Collaboration with Union Buildmart Pvt. Ltd

Architect:
GIAN P. MATHUR AND ASSOCIATES (P) LTD.
C - 55, East Of Kailash, New Delhi-110065
T : 011-46595589 / F 011-46595512
E : info@gpmindia.com / W : www.gpmindia.com

Project Title:
PROPOSED BUILDING PLAN OF PHASE - 2 GROUP HOUSING COLONY (MIX LAND USE RESIDENTIAL 99.5% AND 0.5% COMMERCIAL) ON THE AREA MEASURING 10.225 ACRES **(LICENCE NO. 229 OF 2023 DATED 02-11-2023) IN** SECTOR -113, GURUGRAM

Status: SUBMISSION DRAWING

Sheet Title: RESIDENTIAL TOWER - A
TYPICAL LVL (LEVEL - 3rd to 18th & 20th to 26th) FLOOR LVL LAYOUT & AREA DETAILS

Owner's Sign: For Union Buildmart Private Limited — Authorized Signatory

Architect's Sign: GIAN P. MATHUR ARCHITECT B. Arch., M.C.A., L.L.A. CA (0)/5769

SCALE: 1: 100

DWG. No. SD/AR/M3M-113A/T-A-104