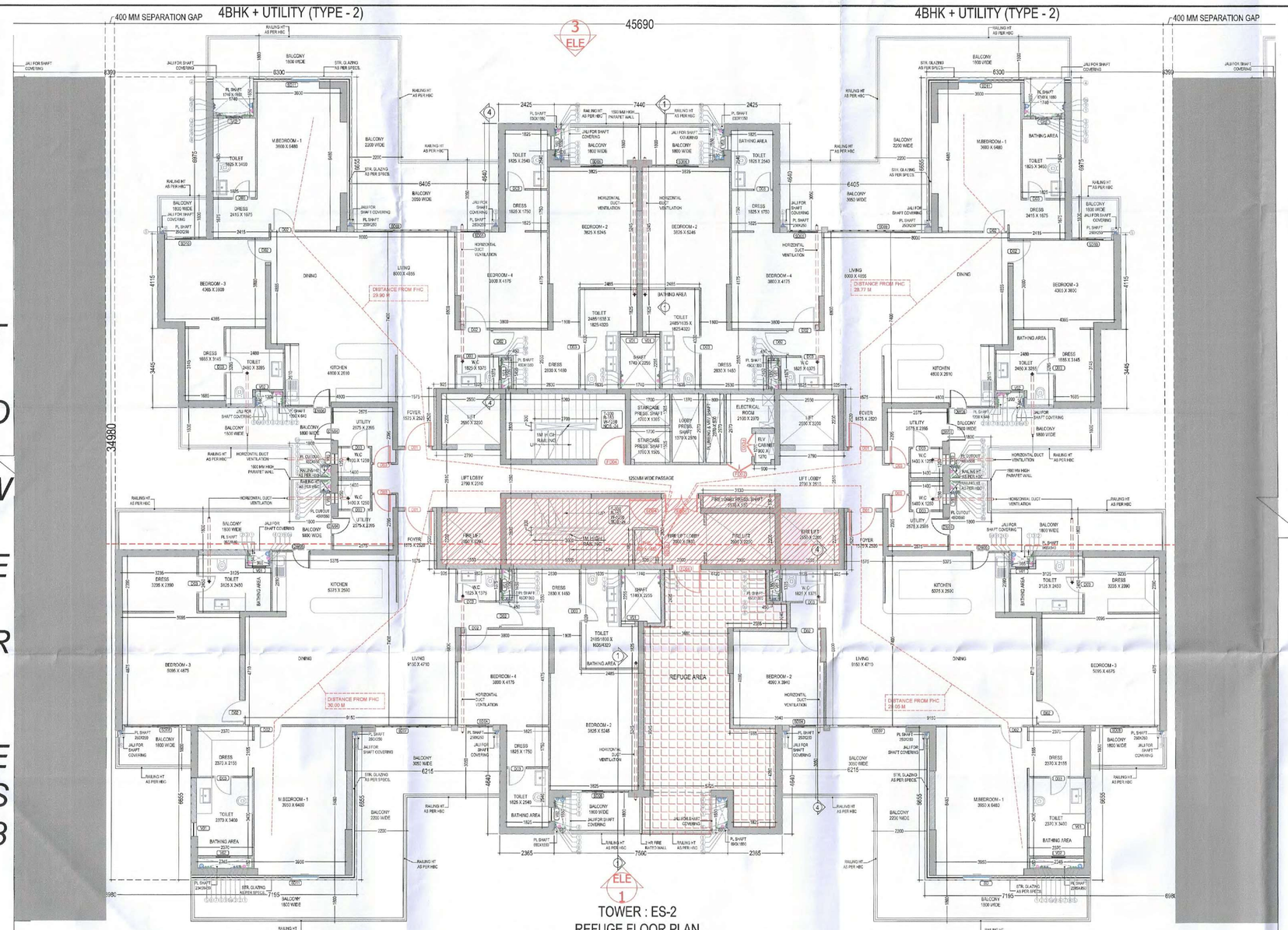
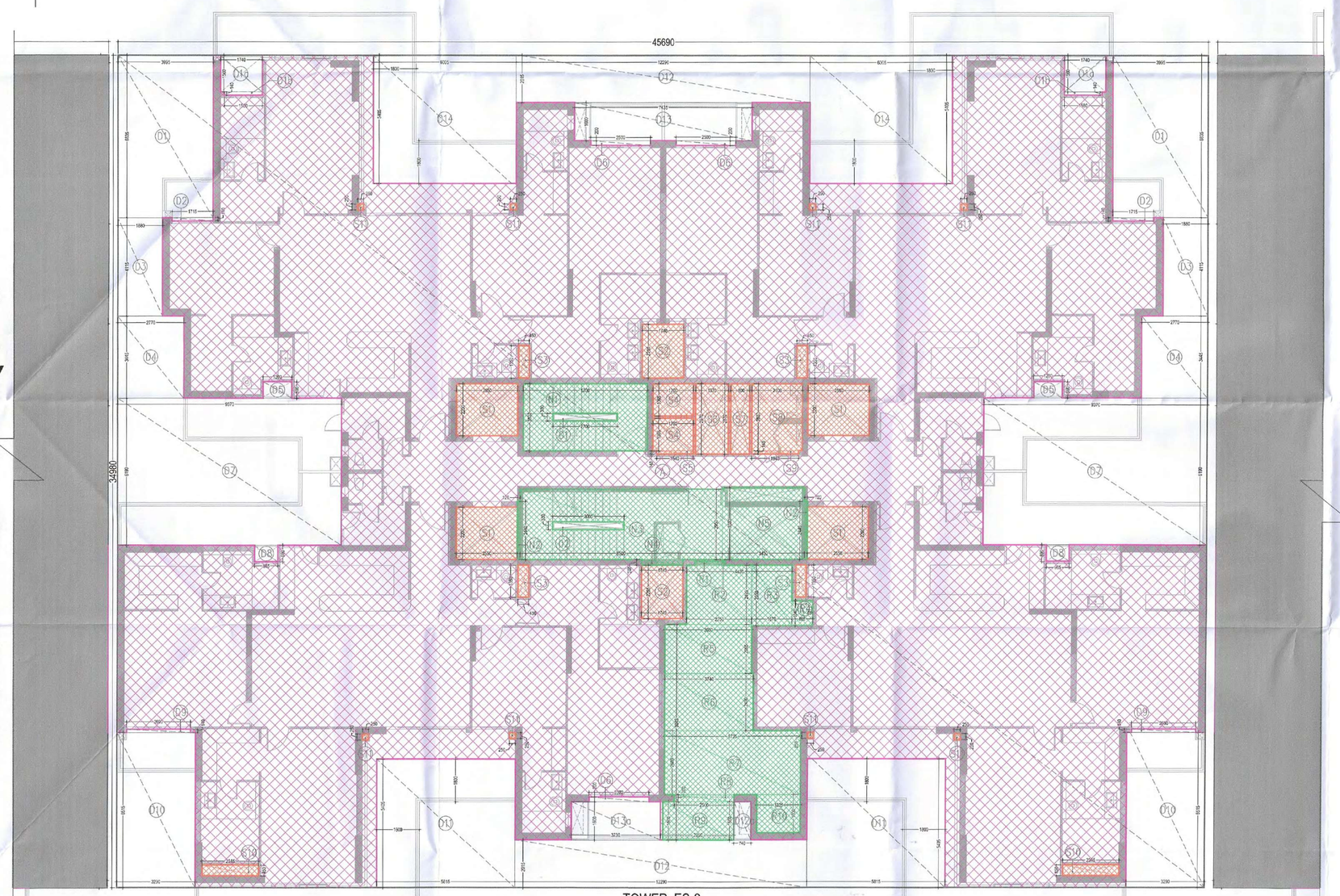




TOWER: ES-2
REFUGE FLOOR PLAN AREA DIAGRAM
(17TH & 25TH FLOOR)

TOWER ES1

DOOR & WINDOW SCHEDULE

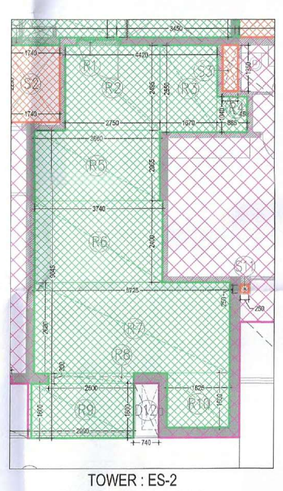
S.NO.	SYMBOL	SIZE		CILL LVL	LINTEL LVL	REMARKS
1	SD01	4105X2750	-	2750		UPVC/SD
2	SD02	1985X2750	-	2750		UPVC/SD
3	SD03	3515X2750	-	2750		UPVC/SD
4	SD04	1515X2750	-	2750		UPVC/SD
5	SD05	1700X2750	-	2750		UPVC/SD
6	SD06	2500X2750	-	2750		UPVC/SD
7	SD07	3340X2750	-	2750		UPVC/SD
8	SD08	2690X2750	-	2750		UPVC/SD
9	SD09	4230X2750	-	2750		UPVC/SD
10	SD10	1715X2750	-	2750		UPVC/SD
11	SD11	2350X2750	-	2750		UPVC/SD
12	GL01	1500X2750	-	2750		GLASS DOOR
13	GL02	1000X2750	-	2750		GLASS DOOR
14	GL03	2000X2750	-	2750		GLASS DOOR
15	FD01	1500X2430	-	2430		TWO HOUR FIRE RATED DOOR
16	FD01A	1500X2750	-	2750		TWO HOUR FIRE RATED DOOR
17	FD02	1200X2650	100	2750		TWO HOUR FIRE RATED DOOR
18	FD03	1000X2330	100	2430		TWO HOUR FIRE RATED DOOR
19	FD04	1250X2430	-	2430		TWO HOUR FIRE RATED DOOR
20	FD04A	1250X2750	-	2750		TWO HOUR FIRE RATED DOOR
21	FD05	900X2750	-	2750		TWO HOUR FIRE RATED DOOR
22	FD06	2000X2750	-	2750		TWO HOUR FIRE RATED DOOR
23	D01	1200X2750	-	2750		ONE HOUR FIRE RATED DOOR
24	D02	1000X2430	-	2430		WD/FLUSH DOOR
25	D03	800X2430	-	2430		WD/FLUSH DOOR
26	D04	800X2430	-	2430		ONE HOUR FIRE RATED DOOR
27	D04A	800X2750	-	2750		WD/FLUSH DOOR
28	D05	1000X2750	-	2750		WD/FLUSH DOOR
29	D05A	1050X2750	-	2750		WD/FLUSH DOOR
30	D06	1250X2750	-	2750		WD/FLUSH DOOR
31	D07	815X2250	-	2250		WD/FLUSH DOOR
31	V01	600X1200	1050	2250		UPVC
32	V02	600X1200	600	2250		UPVC
33	V03	500X1200	1050	2250		UPVC
34	DW01	800/1000 (1800)	O/1050	2750		UPVC/OP
35	DW02	800/1750 (2550)	O/1050	2750		UPVC/OP
36	DW03	800/815 (1615)	O/1050	2750		UPVC/OP
37	DW04	800/640 (1440)	O/1050	2750		UPVC/OP
38	DW05	800/850 (1650)	O/1050	2750		UPVC/OP
39	DW06	800/1185 (1985)	O/1050	2750		UPVC/OP
40	W01	815X1200	1050	2250		UPVC/OP
41	W02	1000X1200	1050	2250		UPVC/OP
42	W03	750X1200	1050	2250		UPVC/OP
REMARKS		WD/FD = WOODEN FLUSH DOOR				
		UPVC/SD = UPVC/ SUDING				
		UPVC/OP = UPVC/ OPENABLE				

FAR AREA OF TOWER- ES2
AT(17TH & 25TH FLOOR) REFUGE FLOOR LEVEL

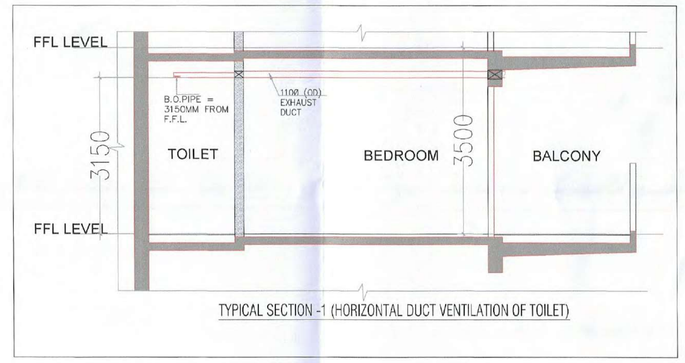
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N) in sq.m
A	45.690	34.98	1	1598.236
TOTAL (A)				**1598.236**
DEDUCTIONS				
D1	3.795	6.835	2	51.878
D2	1.515	0.140	2	0.424
D3	1.880	4.115	2	15.472
D4	2.770	3.445	2	19.085
D5	1.200	0.690	2	1.656
D6	6.080	1.800	1	10.944
D7	9.370	6.190	2	116.001
D8	0.965	0.690	2	1.332
D9	2.690	0.140	2	0.753
D10	3.140	6.515	2	40.914
D11	5.615	5.405	2	60.698
D12	12.690	2.015	2	51.141
D13	2.990	1.600	1	4.784
D14	6.080	0.200	1	1.216
D15	2.500	0.200	3	1.500
D16	5.805	5.405	2	62.752
TOTAL (D)				**440.550**
LIFT & SERVICES SHAFTS				
S1	2.550	2.200	4	22.440
S2	1.740	2.255	2	7.847
S3	0.450	1.350	4	2.430
S4	1.700	1.365	2	4.641
S5	1.540	0.140	1	0.216
S6	1.370	2.970	1	4.069
S7	0.800	2.970	1	2.376
S8	2.100	2.830	1	5.943
S9	1.940	0.140	1	0.272
S10	1.740	0.450	2	1.566
S11	1.580	0.140	2	0.442
S12	2.345	0.450	2	2.111
S13	0.250	0.250	8	0.500
S14	0.480	1.600	2	1.536
S15	0.540	1.600	2	1.728
TOTAL (S)				**58.116**
FIRE STAIRCASE & NON FAR AREA				
N1	5.200	2.830	1	14.716
N2	2.440	0.140	2	0.683
N3	8.500	2.950	1	25.075
N4	1.740	0.240	1	0.418
N5	3.450	3.020	1	10.419
TOTAL (N)				**51.311**
FIRE STAIRCASE WELL				
O1	3.000	0.330	1	0.990
O2	2.700	0.330	1	0.891
TOTAL (W)				**1.881**
TOTAL NON FAR AREA (NF) = (N - W)				**49.430**
TOTAL FAR AREA (F) = (A - D - S - N - R)				**995.682**
TOTAL COVERED AREA = (F + NF)				**1045.111**

REFUGE AREA CALCULATION AT 17TH / 25TH FLOOR

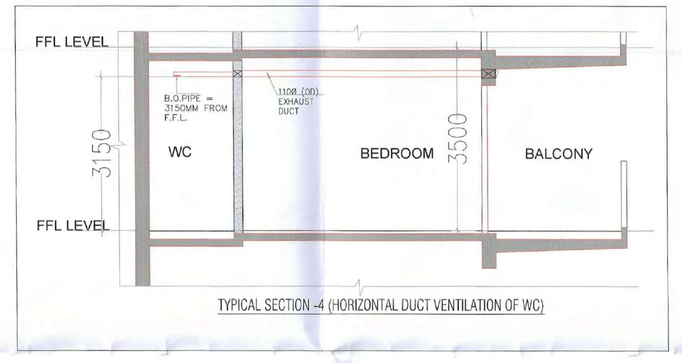
TAG	LENGTH (L) in Mts	WIDTH (W) in Mts	NO.S (N)	AREA (L x W x N) in sq.m
R1	1.250	0.165	1	0.206
R2	2.750	2.495	1	6.861
R3	1.670	2.550	1	4.259
R4	0.885	1.040	1	0.920
R5	3.660	2.065	1	7.558
R6	3.740	2.400	1	8.976
R7	5.725	2.680	1	15.343
R8	2.500	0.300	1	0.750
R9	2.990	1.600	1	4.784
R10	1.825	1.600	1	2.920
TOTAL (R)				**52.577**
GROSS AREA at 17th/25th FLOOR (FAR + NON FAR)				1045.111
GROSS AREA at 18th/24th FLOOR (FAR + NON FAR)				1097.321
TOTAL GROSS AREA at 19th/29th & 20th/28th FLOOR (G)				**2142.432**
B = GROSS AREA (G) / 12.5				171.395
C = B * 0.3				51.418
ADDITIONAL SPACE REQUIRED TO ACCOMMODATE WHEEL CHAIR				0.900
TOTAL REFUGE AREA REQUIRED				**52.318**
TOTAL REFUGE AREA PROVIDED = (R)				**52.577**
GRAND TOTAL NON FAR AREA= (NF+R)				**102.007**



TOWER : ES-2
REFUGE AREA DIAGRAM



TYPICAL SECTION -1 (HORIZONTAL DUCT VENTILATION OF TOILET)



TYPICAL SECTION -4 (HORIZONTAL DUCT VENTILATION OF WC)

LEGEND

- FAR AREA
- NON FAR AREA
- SERVICE AREA
- SHAFT AREA UNDER DEDUCTION
- FIRE TENDER PATH
- TOWER LINE

LEGEND:- PLUMBING

1	I	100Ø SOIL PIPE
2	A	100Ø WASTE PIPE
3	A	75Ø VENT PIPE
4	A	150Ø RAIN WATER PIPE FROM TERRACE
5	A	100Ø RAIN WATER PIPE FROM BALCONY
6	A	DOMESTIC WATER DOWN TAKE TOP 3-FLOOR HYDRO SUPPLY
7	A	DOMESTIC WATER DOWN TAKE (LEFT 25TH FLOOR TO 15TH FLOOR)
8	A	DOMESTIC WATER DOWN TAKE (LEFT 14 FLOOR TO GROUND/STILT FLOOR)
9	A	FLUSHING WATER DOWN TAKE (TOP 28TH FLOOR TO 16TH FLOOR)
10	A	FLUSHING WATER DOWN TAKE (LEFT 15TH FLOOR TO GROUND/STILT FLOOR)
11	A	DOMESTIC WATER RISER PIPE
12	A	FLUSHING WATER RISER PIPE

- PIPE SUPPORT
- W.C CISTERN
- HEALTH FAUCET
- GEYSER
- BUTTERFLY VALVE
- PIPE DROP
- FLOOR TRAP
- FLOOR DRAIN
- FLOOR TRAP CUTOUT 150X150MM
- WC CUTOUT 150X150MM
- HOT WATER SUPPLY PIPE
- KHURRA SIZE 450X450
- SUNKEN FOR TOILET 100MM
- SUNKEN FOR BALCONY 75 MM

LEGEND:-

1. COLUMN / STRUCTURAL WALL
2. NON STRUCTURAL WALL

SUMMARY OF MECHANICAL VENTILATION

S.N	Floor	Area SFT	Effective HT FT	Volume CFT	Air Change Per Hour	Calculated CFM	Installed CFM	Application	Nos. of Fan & Fan Capacity CFM	Type of Fan	Remark	Static Pressure (mm) Indicative	No. of Point	Kw of Each Point	Phase	Total Kw in Normal Mode	Total Kw Extra in Fire Mode	Local Source of Power	Location of Local Source	Supply to Local Source
A	**GENERAL VENTILATION**																			
	TYPICAL FLOOR																			
1	Toilet for Living & Dining	27	9.0	243	10	41	100	Exhaust	100 CFM	Inline Fan	Normal Mode	8	1	0.15	1PH	0.15	0.00	MCB	Near Fan	By Others
2	Toilet for Bedroom-2	93	9.0	837	10	140	150	Exhaust	150 CFM	Inline Fan	Normal Mode	8	1	0.20	1PH	0.20	0.00	MCB	Near Fan	By Others

This is a "PROVISIONAL BUILDING PLAN" approved only for the purpose of inviting Objections from the general public

S.T.P.(HQ) Member Secretary B.P.A.C. | S.T.P.(D) Member B.P.A.C. | C.T.P.(HR) Chairman B.P.A.C.

DTP(HQ) | ATP(HQ) | "SO, (HQ) Memb... BPAC

AD | PA | ATP

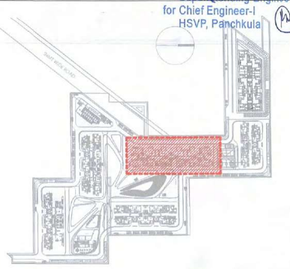
TO BE READ WITH THIS OFFICE MEMO NO.:- 13350 DATED:- 21/09/26

Rajesh Dutt SD(HQ)

Checked and found ok for Public Health (Internal) Service only subject to comments in forwarding letter No. 53877 Dt. 20/9/26

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

KEY PLAN



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.
4. RAILING HEIGHT AS PER NBC.

PHASE - 1 ALREADY SANCTIONED VIDE DATED: 25.01.2023 AND MEMO NO.- 2350

PROJECT:

PROPOSED BUILDING PLANS OF PHASE-03 & REVISED BUILDING PLANS OF PHASE-02, & BASEMENTS FALLING UNDER PHASE-02 & 03 PART OF GROUP HOUSING COLONY (MIX-LAND USE 99% RESIDENTIAL COMPONENT & 1% COMMERCIAL COMPONENT) UNDER TOD POLICY OVER AN AREA MEASURING 15.99375 ACRES (LICENSE NO. 213 OF 2022 DATED: 27.12.2022) IN THE REVENUE ESTATE OF VILLAGE CHAUMA, SECTOR-111, GURUGRAM, MANESAR

URBAN COMPLEX BEING DEVELOPED BY M/S METRO EDUCATION & WELFARE PVT. LTD.

OWNER

METRO EDUCATION AND WELFARE PVT. LTD

ARCHITECTS

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OWNER'S SEAL & SIGNATURE

Metro Education & Welfare Pvt. Ltd.
Authorised Signatory

ARCHITECT'S SEAL & SIGNATURE

AMIT GUPTA
Architect
CA/2004/33143

DATE:-	SCALE :-	DRAWING NO:-
MAR 2026	1:100	CRN111-PH2-STS-ES2-RFU-DR-AR-0107

DRAWING TITLE:-
TOWER : ES-2
17TH & 25TH REFUGE FLOOR PLAN & AREA DIAGRAM