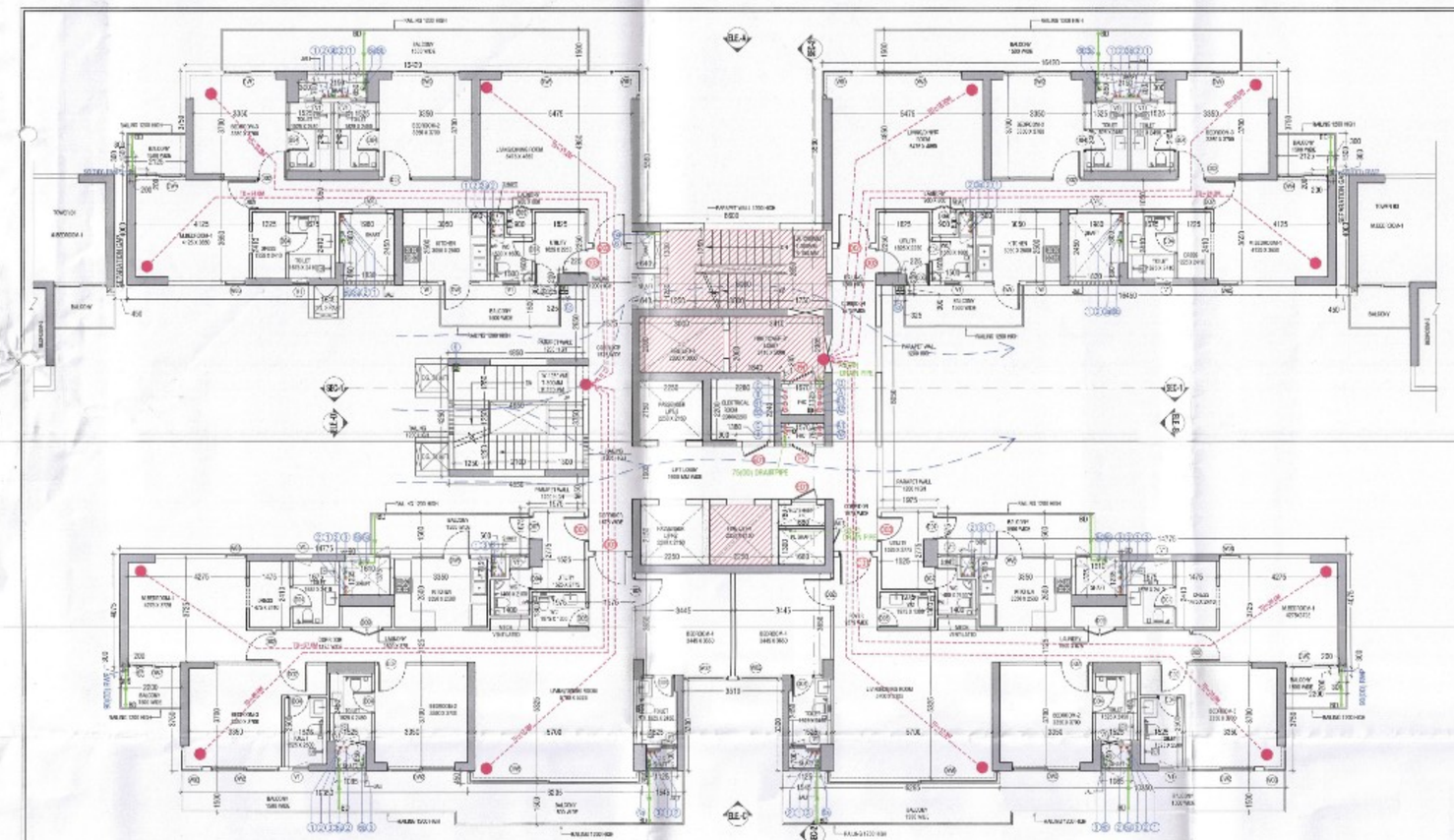
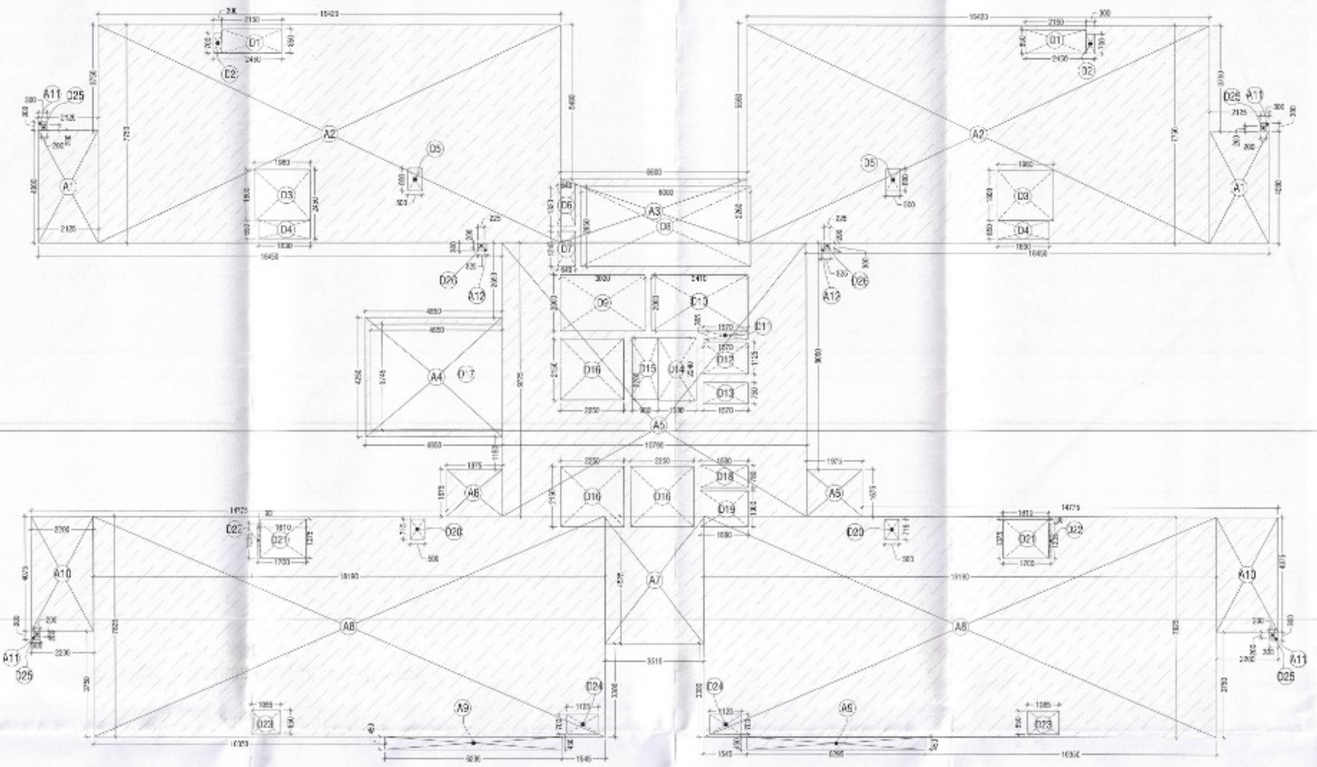


TOWER - B2_TYPICAL FLOOR (2ND, 4TH TO 8TH, 10TH, 12ND TO 18TH,20TH,21ST, 23RD,25TH TO 27TH & 29TH TO 33RD)



TOWER - B2_TYPICAL FLOOR (2ND, 4TH TO 8TH, 10TH, 12ND TO 18TH,20TH,21ST, 23RD,25TH TO 27TH & 29TH TO 33RD) AREA DIAGRAM

Checked and found ok for Public Health (Internal) Service only subject to comments in in forwarding letter No. 28545 Dtd. 29/8/25

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

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

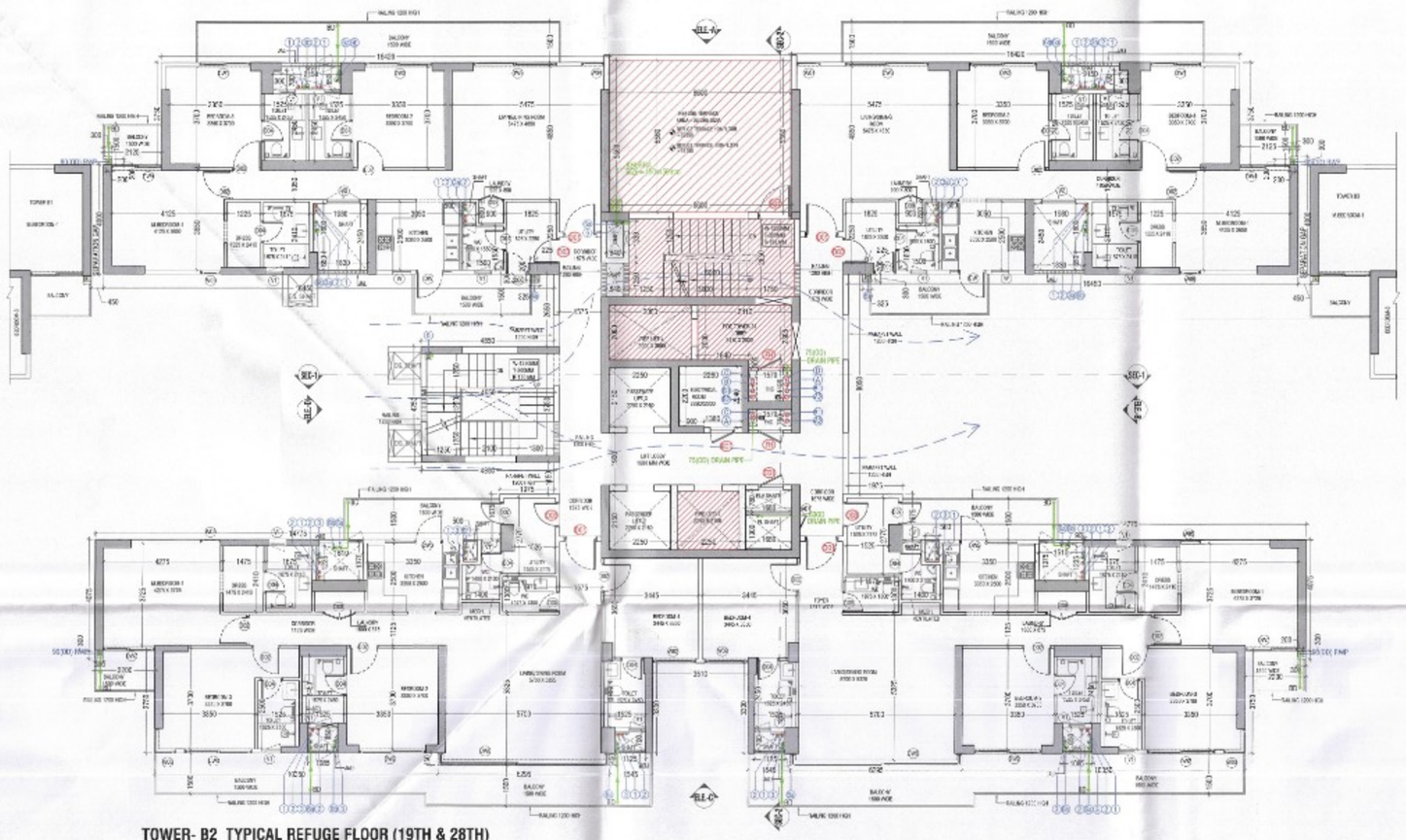
DTP(HQ) | ATP(HQ)

AD | PA | ATP

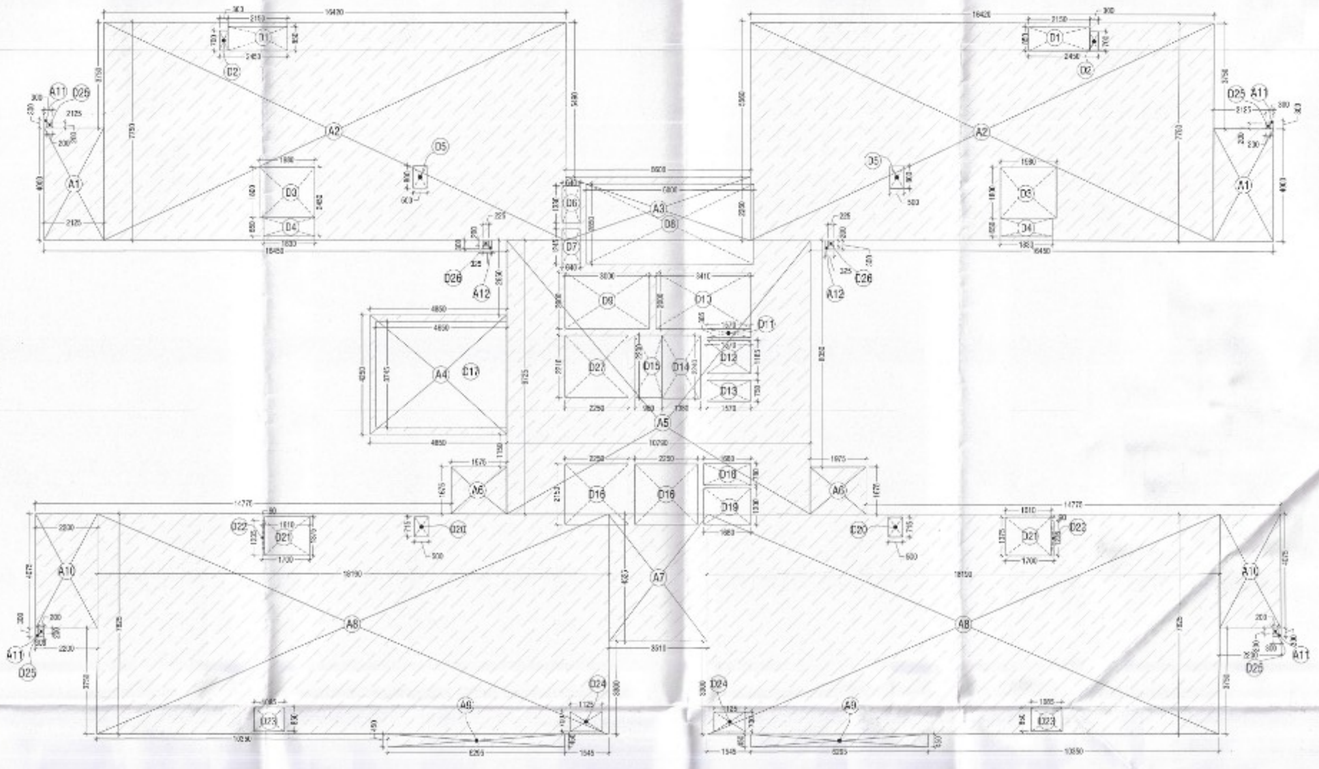
SANCTIONED TO BE READ WITH THIS OFFICE MEMO NO.: 3764/L DATED: 25/09/2025

JDT(HQ) Member BPAC

DINESH KUMAR PA(HQ)

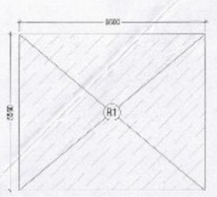


TOWER- B2_TYPICAL REFUGE FLOOR (19TH & 28TH)



TOWER-B2_TYPICAL REFUGE FLOOR (19TH & 28TH) AREA DIAGRAM

TYPICAL FLOOR FAR AREA CALCULATIONS(T-B2)				
S. No.	WIDTH	LENGHT	NOS.	AREA IN SQMT
ADDITIONS (A)				
A1	2.125	4.000	2	17.000
A2	16.420	7.750	2	254.510
A3	6.600	2.260	1	14.916
A4	4.850	4.250	1	20.613
A5	10.790	9.725	1	104.933
A6	1.975	1.675	2	6.616
A7	3.510	4.525	1	15.883
A8	18.190	7.825	2	284.674
A9	6.295	0.450	2	5.666
A10	2.200	4.075	2	17.930
A11	0.300	0.300	4	0.360
A12	0.325	0.300	2	0.195
TOTAL ADDITION (A)			=	743.294
DEDUCTIONS (D)				
D1	2.150	0.850	2	3.655
D2	0.300	0.700	2	0.420
D3	1.980	1.800	2	7.128
D4	1.830	0.650	2	2.379
D5	0.500	0.800	2	0.800
D6	0.640	1.330	1	0.851
D7	0.640	1.245	1	0.797
D8	6.000	2.850	1	17.100
D9	3.000	2.000	1	6.000
D10	3.410	2.000	1	6.820
D11	1.570	0.305	1	0.479
D12	1.570	1.125	1	1.766
D13	1.570	0.750	1	1.178
D14	1.380	2.240	1	3.091
D15	0.900	2.200	1	1.980
D16	2.250	2.150	3	14.513
D17	4.650	3.745	1	17.414
D18	1.680	0.780	1	1.310
D19	1.680	1.300	1	2.184
D20	0.500	0.715	2	0.715
D21	1.610	1.375	2	4.428
D22	0.090	1.235	2	0.222
D23	1.085	0.850	2	1.845
D24	1.125	0.700	2	1.575
D25	0.200	0.200	4	0.160
D26	0.225	0.200	2	0.090
TOTAL DEDUCTIONS (D)				98.899
TOTAL TYPICAL FLOOR FAR AREA (A-D) =			=	644.395



REFUGE_19TH & 28TH AREA DIAGRAM

REFUGE AREA CALCULATION
GROSS AREA OF TWO CONSECUTIVE FLOORS = 743.294 +743.294 = 1486.588 SQM
NO OF OCCUPANTS ON two FLOOR = 1486.588/12.5 = 118.927 SAY 119 PERSONS
REFUGE AREA REQUIRED = 119 X 0.3 = 35.7 SQM
ADDITIONALLY FOR WHEELCHAIR SPACE = 0.9 SQM
TOTAL REFUGE AREA REQUIRED = 35.7 + 0.9 = 36.6 SQM
REFUGE AREA PROVIDED = 36.696 SQM

19TH &28TH LEVEL REFUGE AREA CALCULATIONS(T-B2)				
S. No.	WIDTH	LENGHT	NOS.	AREA IN SQMT
ADDITIONS (A)				
R1	6.600	5.560	1	36.696
TOTAL ADDITION (A)			=	36.696

TOWER B DOOR WINDOW SCHEDULE					
NAME	WIDTH	HEIGHT	SILL	LINTEL	LOCATION
ED1	800	2250	150	2400	ELE. ROOM / E.V. SHAFT 2 HR FIRE RATING
FH	500	2250	150	2400	FHC
FD1	1200	2400	0	2400	STAIRCASE 2 HR FIRE RATING
FD2	1600	2400	0	2400	FIRE CONTROL ROOM STILT
FD3	1200	2400	0	2400	ELECTRICAL METER ROOM-STILT
AD1	800	2250	150	2400	PL SHAFT
DD1	1200	2400	0	2400	UNIT ENTRY / TERRACE 1 HR FIRE RATING
DD1A	1200	2100	0	2100	TERRACE
DD2	1800	2400	0	2400	ROOM
DD3	900	2400	0	2400	UTILITY ROOM ENTRY 1 HR. FIRE RATING
DD4	800	2400	0	2400	TOILET
DD5	750	2400	0	2400	TOILET
DD6	1800	2400	0	2400	UTILITY BALCONY
DD7	1875	2400	0	2400	UTILITY BALCONY
DD8	1200	2400	0	2400	HANDICAPPED TOILET
DD9	900*750	2400	0	2400	LAUNDRY
DD10	1575	2400	0	2400	STILT CORRIDOR
DW	1060*1060	2400/1300	0/1060	2400	KITCHEN TO BALCONY
DW1	1860	2400	0	2400	BEDROOM TO BALCONY
DW2	2450	2400	0	2400	BEDROOM TO BALCONY
DW3	3060	2400	0	2400	LIVING ROOM TO BALCONY
DW4	1825	2400	0	2400	BEDROOM TO BALCONY
DW5	1600*1100	2400/1300	0/1100	2400	KITCHEN TO BALCONY
DW6	5200/6295	2400	0/1050	2400	LIVING ROOM TO BALCONY
DW7	1900	2400	0	2400	BEDROOM TO BALCONY
W	850	1350	1050	2400	KITCHEN TO BALCONY
WD1	900*1075	2400	0	2400	LIVING ROOM TO BALCONY
WD2	1500	2400	0	2400	BEDROOM
WD3	600/775	2400	0	2400	BEDROOM
WD4	870	2400	0	2400	LIVING ROOM
WD5	750	2400	0	2400	BEDROOM
V1	600	1200	1200	2400	TOILET
V2	1200	1200	1200	2400	TOILET
GL1	1820*4940	3000/4900	0	3000/4900	ENTRANCE LOBBY STILT
GL2	380/3050	4900	0	4900	WAITING LOUNGE STILT
GL3	1190	3700	1200	4900	WAITING LOUNGE STILT
GL4	1540	3700	1200	4900	CORRIDOR STILT
GL5	2230	3700	1200	4900	CORRIDOR STILT

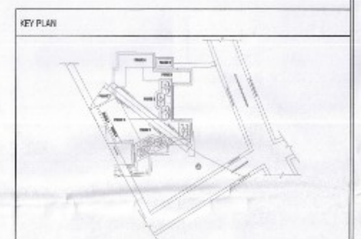
REFUGE 19 TH &28TH FLOOR FAR AREA CALCULATIONS(T-B2)				
S. No.	WIDTH	LENGHT	NOS.	AREA IN SQMT
ADDITIONS (A)				
A1	2.125	4.000	2	17.000
A2	16.420	7.750	2	254.510
A3	6.600	2.260	1	14.916
A4	4.850	4.250	1	20.613
A5	10.790	9.725	1	104.933
A6	1.975	1.675	2	6.616
A7	3.510	4.525	1	15.883
A8	18.190	7.825	2	284.674
A9	6.295	0.450	2	5.666
A10	2.200	4.075	2	17.930
A11	0.300	0.300	4	0.360
A12	0.325	0.300	2	0.195
TOTAL ADDITION (A)			=	743.294
DEDUCTIONS (D)				
D1	2.150	0.850	2	3.655
D2	0.300	0.700	2	0.420
D3	1.980	1.800	2	7.128
D4	1.830	0.650	2	2.379
D5	0.500	0.800	2	0.800
D6	0.640	1.330	1	0.851
D7	0.640	1.245	1	0.797
D8	6.000	2.850	1	17.100
D9	3.000	2.000	1	6.000
D10	3.410	2.000	1	6.820
D11	1.570	0.305	1	0.479
D12	1.570	1.125	1	1.766
D13	1.570	0.750	1	1.178
D14	1.380	2.240	1	3.091
D15	0.900	2.200	1	1.980
D16	2.250	2.150	3	14.513
D17	4.650	3.745	1	17.414
D18	1.680	0.780	1	1.310
D19	1.680	1.300	1	2.184
D20	0.500	0.715	2	0.715
D21	1.610	1.375	2	4.428
D22	0.090	1.235	2	0.222
D23	1.085	0.850	2	1.845
D24	1.125	0.700	2	1.575
D25	0.200	0.200	4	0.160
D26	0.225	0.200	2	0.090
TOTAL DEDUCTIONS (D)				98.899
TOTAL REFUGE 19TH & 28TH FLOOR FAR AREA (A-D) =			=	644.395

LEGEND FOR PLUMBING:-	
1	100Ø SOIL & VENT PIPE
1a	100Ø SOIL & VENT PIPE
1b	200Ø SOIL & VENT PIPE
2	100Ø WASTE & VENT PIPE
2a	100Ø WASTE & VENT PIPE
2b	200Ø WASTE & VENT PIPE
3	75Ø ANTI-SYPHONAGE PIPE
3a	100Ø ANTI-SYPHONAGE PIPE
3b	150Ø ANTI-SYPHONAGE PIPE
4	DOMESTIC WATER SUPPLY MAIN PIPE
4a	DOMESTIC WATER SUPPLY BRANCH PIPE
5	FLUSHING WATER SUPPLY MAIN PIPE
5a	FLUSHING WATER SUPPLY BRANCH PIPE
6	75Ø RAIN WATER PIPE
6a	100Ø RAIN WATER PIPE
6b	150Ø RAIN WATER PIPE
6c	200Ø RAIN WATER PIPE
7	DOMESTIC WATER TANK FILLING PIPE
8	FLUSHING WATER TANK FILLING PIPE

FIRE FIGHTING LEGEND -	
(A)	150Ø FIRE PIPE FOR LOW RISE
(B)	150Ø FIRE PIPE FOR MID RISE
(B)	150Ø FIRE PIPE FOR HIGH RISE
(D)	150Ø SPRINKLER PIPE FOR LOW RISE
(E)	150Ø SPRINKLER PIPE FOR MID RISE
(F)	150Ø SPRINKLER PIPE FOR HIGH RISE
(C)	100Ø SPRINKLER DRAIN PIPE
(G)	150Ø FIRE PIPE FROM FIRE CHT TO BASEMENT
	FIRE HOSE CABINET

NOTE
EACH FIRE HOSE CABINET SHALL CONSIST OF
1 NO. - 65 SINGLE headed HYDRANT VALVE (63mm)
2 Nos. - FRW HOSES 63mm 15M LONG WITH ACCESSORIES.
1 No - SHORT BRANCH PIPE
1 No - FIRST AID HOSE REEL DRUM
1 No - ABC TYPE FIRE EXT. (6.0KG)
1 No - CO2 TYPE FIRE EXT. (4.5KG)

KEY PLAN



PRINCIPAL ARCHITECT

ACPL

ISO 9001:2015 Architecture Interior Planning

ACPL Design Ltd

N

CLIENT

EMAAR INDIA LTD.

PROJECT

PROPOSED RESIDENTIAL COLONY (UNDER NILP POLICY DATED 11.05.2022)(ON THE ADDITIONAL AREA MEASURING 1.4625 ACRES (LICENCE NO. 75 OF 2005 DATED 22.05.2025) ADJOINING TO ALREADY LICENSE GRANTED AREA MEASURING 24.4375 ACRES (LICENCE NO. 19 OF 2025 DATED 7.6.01.2025)(HERBY NAMING TOTAL AREA MEASURING 25.90 ACRES, SECTOR-86, GURUGRAM BEING DEVELOPED BY EMAAR INDIA LTD.

OWNER/AUTH SIGNATURE

ARCHITECT'S SIGNATURE

SUKHJEET SHANGARI ARCHITECT CA/97/21741

DRAWING TITLE: ROOF B2_TYPICAL (2ND, 4TH TO 8TH, 10TH, 12 TO 18TH,20TH,21ST,23RD, 25TH TO 27TH & 29TH TO 33RD) REFUGE (19TH & 28TH) FLOOR PLAN & AREA DIAGRAM

DRAWING NO.: A-16

SCALE: 1:100