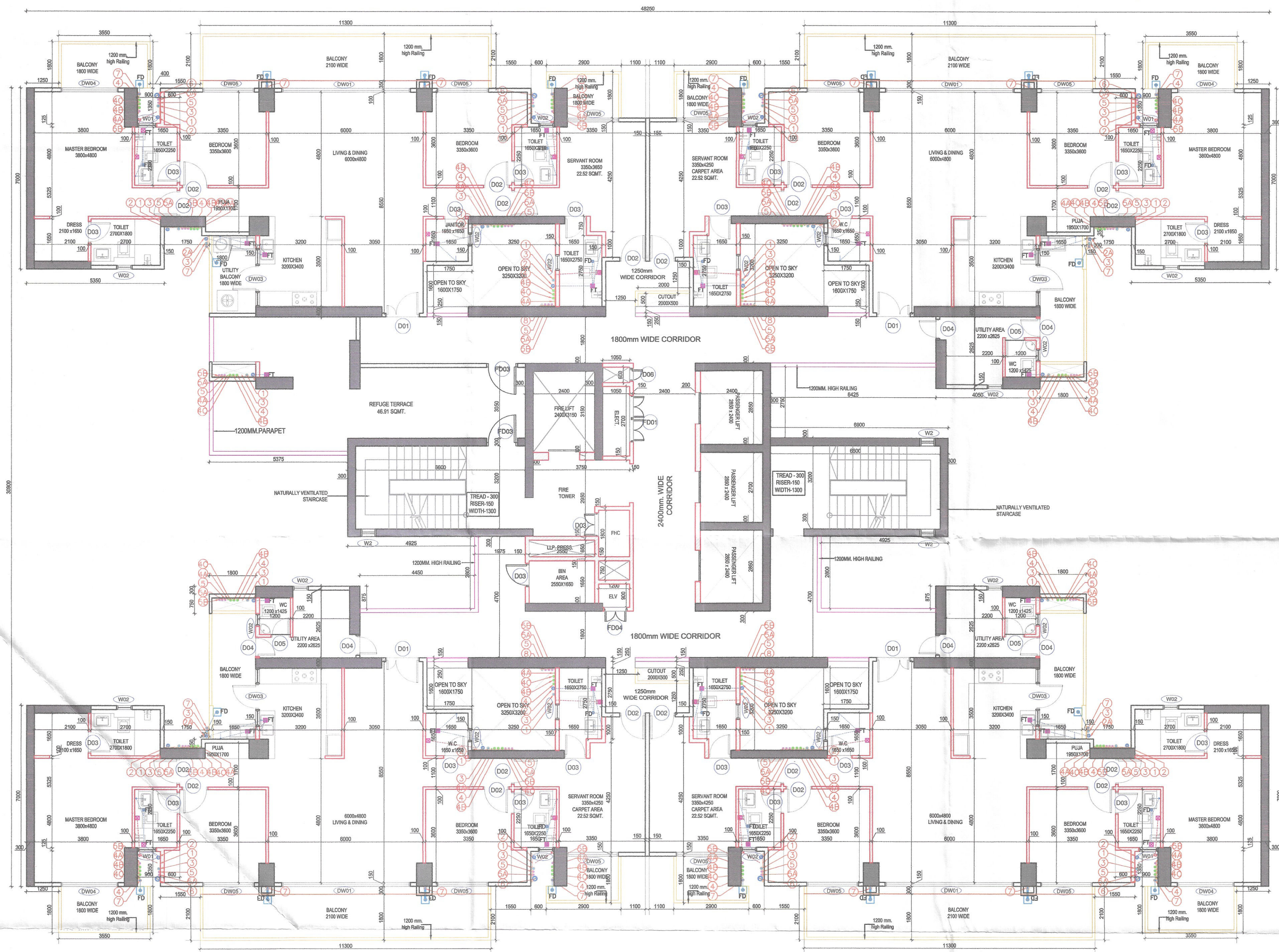


Checked and found ok for Public Health
(Internal) Service only subject to comments in
in forwarding letter No. 252394 DU 24/11/23

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



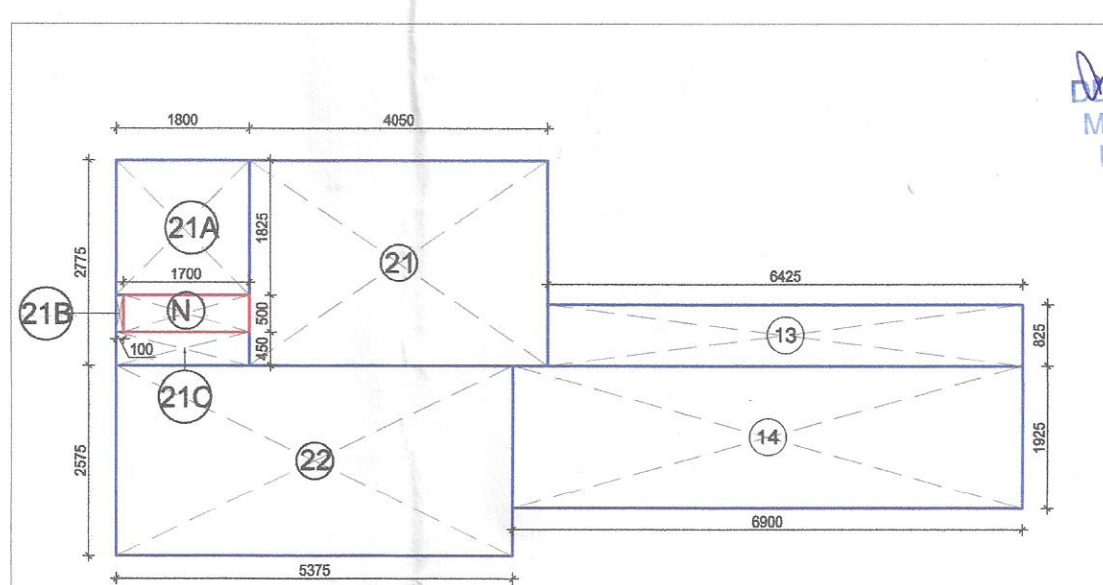
1 TOWER-05 REFUGE 15TH & 24TH & 33RD
Scale: 1:100

2 TOWER-08 REFUGE 15TH & 24TH
Scale: 1:100

REFUGE FLOOR LEVELS

15TH FLOOR LEVEL - +61.75 MT.
24TH FLOOR LEVEL - +91.45 MT.
33RDTH FLOOR LEVEL - +121.15 MT.

REFUGE AREA CALCULATION tower 5 & 8							
NON FAR AREA							
13	1	RECTANGLE	L x B	6.425	0.825	5.301	
14	1	RECTANGLE	L x B	6.900	1.925	13.283	
21	1	RECTANGLE	L x B	4.050	2.775	11.239	
21A	1	RECTANGLE	L x B	1.800	1.825	3.285	
21B	1	RECTANGLE	L x B	0.500	0.100	0.050	
21C	1	RECTANGLE	L x B	1.700	0.450	0.765	
22	1	RECTANGLE	L x B	5.375	2.575	13.841	
TOTAL NON FAR						47.763	
CUTOUT'S AREA							
N	1	RECTANGLE	L x B	1.700	0.500	0.850	
TOTAL NON FAR						0.850	
TOTAL REFUGE AREA = TOTAL NON FAR AREA- CUTOUT AREA						46.913	



REFUGE FLOOR AREA DIAGRAM

DOOR - WINDOW SCHEDULE- TOWER

INTERNAL DOORS

DOOR TAG	LEVEL (FROM FFL)				FIRE RATED (HRS.)
	WIDTH	HEIGHT	CILL	LINTEL	
D01	1300	2100	±00	2100	1HR
D02	1000	2100	±00	2100	
D03	900	2100	±00	2100	2HRS
D04	800	2100	±00	2100	1HR
D05	750	2100	±00	2100	
D06	500	2100	±00	2100	
FD01	1800	2100	±00	2100	2HRS
FD02	1500	2100	100	2100	2HRS
FD03	1200	2100	100	2100	2HRS
FD04	900	2100	±00	2100	2HRS

EXTERNAL DOORS

DW01	5000	2350	100	2450	
DW03	2250	2350	100	2450	
DW04	2200	2350	±00	2450	
DW05	2000	2350	±00	2450	

WINDOWS

W0	750	1300	1200	2450	
W01	600	1300	1200	2450	
W02	600	1350	150	1500	
W03	1950	1300	100	2450	

WALL LEGEND

- R.C.C LOAD BEARING WALL / COLUMN
- R.C.C NON LOAD BEARING WALL
- BLOCK WALL

Refuge area Calculation FOR TOWER - 5 & 8

S. No	Floor	Area in Sq. mt./ NOS.
1	GROSS area of 1 Floor	907.72 Sq. mtr.
2	GROSS area of 2 Floors (903.37 x 2)	1815.44 Sq. mtr.
3	Total GROSS area	1815.44 Sq. mtr.
4	Total Occupancy (1 person every 12.5 sq. m as per NBC 2016)	145.24 Nos.
5	Refuge area required Per Personas per NBC 2016 (144.54 x 0.3)	43.57 Sq. mtr.
6	Wheel Chair Space (0.9 sq. mtr. as per NBC 2016) 43.36+0.90	44.47 Sq. mtr.
7	Total Refuge area Required	44.47 Sq. mtr.
8	Total Refuge area Proposed	46.913 Sq. mtr.

Sign & Stamp

DTP (HQ) S.T.P (HQ) S.T.P (G) C.T.P (Hr.)
Member Secretary Member Chairman
B.P.A.C. B.P.A.C. B.P.A.C.

Consultant
Architect

DTP (HQ)

NOTE:- ALL TOILETS ARE MECHANICALLY
VENTILATED WITH 100% POWER BACKUP

SANCTIONED
TO BE READ WITH THIS OFFICE (Dinesh Kumar)
MEMO NO. FA(HQ)

SYMBOL	DESCRIPTION
①	110 OD SOIL AND VENT PIPE
②	110 OD WASTE AND VENT PIPE
③	110 OD KITCHEN WASTE AND VENT PIPE
④	75Ø ANTISYPHONAGE PIPE
⑤	DOMESTIC WATER SUPPLY DN. TAKE PIPE
⑥	DOMESTIC WATER SUPPLY DN. TAKE PIPE FOR TOP FIVE FLOORS (PRESSURE SUPPLY)
⑦	DOMESTIC WATER SUPPLY DN. TAKE PIPE
⑧	DOMESTIC WATER SUPPLY DN. TAKE PIPE
⑨	FLUSHING WATER SUPPLY DN. TAKE PIPE
⑩	FLUSHING WATER SUPPLY DN. TAKE PIPE
⑪	FLUSHING WATER SUPPLY DN. TAKE PIPE
⑫	160 OD uPVC TERRACE RAIN WATER PIPE
⑬	75Ø uPVC RAIN WATER PIPE (BALCONY)
⑭	DOMESTIC WATER SUPPLY RISER
⑮	FLUSHING WATER SUPPLY RISER
FD	FLOOR DRAIN
FT	FLOOR TRAP
LD	LEDGE WALL
CUTOUT	CUTOUT IN FLOOR

LEGEND

- SOIL WASTE PIPE
- WASTE WATER PIPE
- BALCONY DRAIN PIPE

REFUGE FLOOR LEVELS

15TH FLOOR LEVEL - +61.75 MT.
24TH FLOOR LEVEL - +91.45 MT.



DESIGN FORUM
INTERNATIONAL
ARCHITECTURE • URBAN DESIGN • TOWN PLANNING

K-47, KAILASH COLONY NEW DELHI-48
PHONE: 011 - 46556600 FAX : 46556601

PROJECT NAME & ADDRESS

PROPOSED GROUP HOUSING DEVELOPMENT AT
VILLAGE GADALI KALAN, SECTOR 37 D GURUGRAM
BEING DEVELOPED BY SIGNATURE GLOBAL BUSINESS
PARK PVT. LTD. AT SECTOR - 37 D, AREA - 16.65625
ACRE. LICENCE NO. -230 OF 2023 DATED 02/11/2023

CLIENT NAME & ADDRESS

SIGNATURE GLOBAL BUSINESS PARK PVT. LTD.
114, SECTOR-44, GURUGRAM HARYANA- 122002

ARCHITECT'S SIGN & STAMP

CLIENT'S SIGN & STAMP

MANISH KUMAR
CA/2008/42027

SIGNATURE GLOBAL BUSINESS PARK PVT. LTD.

DRAWING TITLE

TOWER-05 & 08
REFUGE LEVEL FLOOR PLAN

SCALE

1:100 ON A1

DATE

18.11.2023

DRAWING NO.

T5-03

NORTH