FIRST FLOOR AREA CALCULATION

GROSS – A								
1	2	X	1.400	X	1.800	=	5.040	SQM
2	1	X	12.600	X	0.800	=	10.080	SQM
3	1	X	13.000	X	12.600	=	163.800	SQM
4	1	X	12.600	X	0.800	=	10.080	SQM
5	1	X	1.400	X	1.800	=	2.520	SQM
5a	1	X	37.185	X	12.600	=	468.531	SQM
6	1	X	52.990	X	14.000	=	741.860	SQM
7	1	X	1.400	X	15.000	=	21.000	SQM
8	1	X	14.200	X	1.500	=	23.300	SQM
9	1	X	14.400	X	13.805	=	198.912	SQM
10	1	X	8.190	X	10.800	=	80.997	SQM
11	1	X	39.200	X	14.950	=	586.040	SQM
13	1	X	18.300	X	8.500	=	155.366	SQM
15	1	X	1.400	X	1.000	=	1.400	SQM
16	27	X	1.000	X	1.400	=	48.600	SQM
17	1	X	5.500	X	0.910	=	4.585	SQM
17a	2	X	2.795	X	1.000	=	5.590	SQM
18	1	X	1.400	X	1.000	=	1.400	SQM
19	2	X	1.368	X	1.200	=	3.348	SQM
20	1	X	1.400	X	2.595	=	3.633	SQM
21	5.5	X	1.000	X	2.600	=	13.000	SQM
					TOTAL	=	2618.226	SQM

DEDUCTION AREA								
GROSS –B								
a1	1	X	0.995	X	0.800	=	0.796	SQM
a2	1	X	0.600	X	0.800	=	0.480	SQM
a3	27	X	1.400	X	0.800	=	30.240	SQM
a3a	1	X	1.000	X	0.800	=	0.800	SQM
a3b	1	X	1.200	X	0.800	=	0.960	SQM
a3c	1	X	1.000	X	0.800	=	0.800	SQM
a4	1	X	1.000	X	0.800	=	0.800	SQM
a5	1	X	0.800	X	0.800	=	0.640	SQM
a6	1	X	1.200	X	0.800	=	0.960	SQM
a8	1	X	9.390	X	4.400	=	38.564	SQM
a9	1	X	0.800	X	3.990	=	2.394	SQM
a10	1	X	0.400	X	4.200	=	1.680	SQM
a11	1	X	0.750	X	1.200	=	0.900	SQM
a12	1	X	18.100	X	20.380	=	305.928	SQM
a13	1	X	11.495	X	7.085	=	81.442	SQM
a13a	1	X	3.100	X	2.150	=	6.665	SQM
a14	6	X	0.800	X	2.200	=	8.800	SQM
a15	1	X	0.800	X	1.395	=	1.116	SQM
a16	1	X	1.000	X	0.800	=	0.800	SQM
a17	1	X	1.200	X	0.800	=	0.960	SQM
a18	2	X	1.000	X	2.300	=	4.600	SQM
a18a	0.5	X	(1.015+1.200)	X	0.190	=	0.210	SQM
a18b	0.5	X	(1.215+2.210)	X	0.995	=	1.704	SQM
a18c	0.5	X	(1.215+2.210)	X	0.995	=	1.704	SQM
a18d	0.5	X	(1.010+1.200)	X	0.190	=	0.210	SQM
a19	2	X		X	0.400	=	0.800	SQM
a20	2	X		X	0.810	=	1.620	SQM
a21	1	X		X	1.175	=	2.350	SQM
a22	2	X		X	2.300	=	11.500	SQM
a23	0.5	X	(1.580+.900)	X	1.200	=	1.494	SQM
a24	1	X	(1.580+.900)	X	0.900	=	2.364	SQM
a25	1	X	0.900	X	0.300	=	0.180	SQM
a27	0.5	X	(12.500+10.800)	X	0.900	=	10.373	SQM
a28	0.5	X	(12.500+10.800)	X	0.960	=	10.973	SQM
a29	1	X	12.500	X	1.500	=	18.750	SQM
a30	1	X	0.600	X	0.300	=	0.180	SQM
a31	1	X	0.900	X	0.300	=	0.270	SQM
a38	0.5	X	(0.900+1.580)	X	1.200	=	1.488	SQM
a40	1	X	1.800	X	1.000	=	1.800	SQM
a41	1	X	4.800	X	1.300	=	6.318	SQM
a42	1	X	4.980	X	3.450	=	17.112	SQM
a42a	1	X	1.300	X	4.650	=	6.045	SQM
a43	1	X	5.810	X	0.400	=	2.324	SQM
a44	1	X	6.160	X	5.890	=	36.282	SQM
a45	1	X	6.580	X	0.850	=	5.151	SQM
a46	1	X	4.800	X	5.000	=	24.350	SQM
a47	1	X	4.300	X	1.500	=	6.458	SQM
a47a	1	X	0.250	X	0.900	=	0.225	SQM
					TOTAL	=	682.558	SQM
TOTAL FAR AREA OF 1ST FLOOR FLOOR AREA			* GROSS – A	-	GROSS – B	=	GROSS – B1	- GROSS – B2
			* 2618.226		682.558	+	1.016	- 1.030
			* 1935.633	SQM				
NON FAR AREA (ADDITION)								
GROSS –C								
a41	1	X	4.980	X	1.300	=	6.318	SQM
a42	1	X	4.980	X	3.450	=	17.112	SQM
a42a	1	X	1.300	X	4.650	=	6.045	SQM
a43	1	X	5.810	X	0.400	=	2.324	SQM
a44	1	X	6.160	X	5.890	=	36.282	SQM
a45	1	X	6.080	X	0.850	=	5.151	SQM
a46	1	X	4.800	X	5.000	=	24.350	SQM
a47	1	X	4.300	X	1.500	=	6.458	SQM
a47a	1	X	0.250	X	0.900	=	0.225	SQM
					TOTAL	=	104.165	SQM

NON FAR AREA (DEDUCTION)								
GROSS –C1								
x1	1	X	1.880	X	3.040	=	5.654	SQM
x2	1	X	1.930	X	0.550	=	1.062	SQM
x3	1	X	0.200	X	2.300	=	0.460	SQM
					TOTAL	=	7.176	SQM
TOTAL NON FAR AREA OF 1ST FLOOR FLOOR AREA			= GROSS –C	-	GROSS –C1			
			= 104.165		7.176			
			= 96.989	SQM				
TOTAL BUILT- UP AREA OF 1ST FLOOR FLOOR AREA			= FAR AREA	+	NON FAR AREA			
			= 2092.642	+	96.989			

ADDITIONAL ARC AREA																	
ARC AREA GROSS - B1																	
a29	3.14	X	0.950	X	0.950	X	90	/	360	-	0.5	X	0.950	-	0.280	X	1.345	=	0.254	SQM
a29	3.14	X	0.950	X	0.950	X	90	/	360	-	0.5	X	0.950	-	0.280	X	1.345	=	0.254	SQM
a33	3.14	X	0.950	X	0.950	X	90	/	360	-	0.5	X	0.950	-	0.280	X	1.345	=	0.254	SQM
a35	3.14	X	0.950	X	0.950	X	90	/	360	-	0.5	X	0.950	-	0.280	X	1.345	=	0.254	SQM
																TOTAL	=	1.016	SQM

DEDUCTION ARC AREA																	
ARC AREA GROSS - B2																	
d1	3.14	X	1.400	X	1.400	X	61	/	360	-	0.5	X	1.400	-	0.180	X	1.385	=	0.209	SQM
d2	3.14	X	1.400	X	1.400	X	59	/	360	-	0.5	X	1.400	-	0.180	X	1.380	=	0.187	SQM
d3	3.14	X	1.400	X	1.400	X	74	/	360	-	0.5	X	1.400	-	0.280	X	1.675	=	0.327	SQM
d4	3.14	X	1.400	X	1.400	X	74	/	360	-	0.5	X	1.400	-	0.280	X	1.675	=	0.327	SQM
																TOTAL	=	1.036	SQM

UPPER GROUND FLOOR PLAN POPULATION CALCULATION

SR.NO.	DETAIL	AREA	GLF	POPULATION	CODE REFERENCE
1.)	FITNESS CENTER,WELLNESS CENTER-1,2	519 SQM	4.6 SQM/PERSON	113 PERSONS	OCCUPANT LOAD FACTOR CONSIDERED AS PER TABLE 7.3.1.2 OF NFPA 101 'LIFE SAFETY CODE'
2.)	POOL	338 SQM	2.7 SQM/PERSON	125 PERSONS	OCCUPANT LOAD FACTOR CONSIDERED AS PER CLAUSE 4.18.1.3 SWIMMING POOL (VIEW LOAD OF NBC 2016 PART 8 PLUMBING SERVICES SECTION 1 WATER SUPPLY
3.)	POOL DECK AREA	268 SQM	1.4 SQM/PERSON	191 PERSONS	OCCUPANT LOAD FACTOR CONSIDERED AS PER TABLE 7.3.1.2 OF NFPA 101 'LIFE SAFETY CODE'
4.)	COMMON CORRIDOR & LOBBY,LIFT,STAIRCASE ETC.	862 SQM	6 SQM/PERSON	144 PERSONS	OCCUPANT LOAD FACTOR CONSIDERED AS PER TABLE 3 OF NBC 2016 PART 4 FIRE AND LIFE SAFETY
5.)	TOILET	139 SQM	9.3 SQM/PERSON	15 PERSONS	OCCUPANT LOAD FACTOR CONSIDERED AS PER TABLE 7.3.1.2 OF NFPA 101 'LIFE SAFETY CODE'
			TOTAL POPULATION	588 PERSONS	
	EXIT STAIRCASE WIDTH REQUIRED @ 10 MM PER PERSON			588x10=5880 MM =6000MM	
	NO. OF EXIT STAIRCASE PROVIDED			3 NOS	
	TOTAL STAIRCASE WIDTH PROVIDED			(2000X3) = 6000MM	

Sanitary Fixtures Calculations -As per area FIRST floor-FITNESS CENTER,WELLNESS CENTER-1,2 (Male population HALF & Female population Half)

	FAR area(Sqm)	Overall Occupant Load (OOL)		No. Of Person	No.Of Occupant Load @30% OF OOL	Overall population @60% OF OOL	Population		Sanitary Fixtures (Table - 10 - NBC 2016)				
	1				2	3	4		5	6	7	8	9	10	11
		Load	Factor	No.					Male	Female	WC (M)	WC (F)	Washbasins (M)	Washbasins (F)	Urinals
FIRST FLOOR-FITNESS CENTER,WELLNESS CENTER-1,2	519.000	1 per 4.6 Sqm.	4.6	113	119	-	119		59	59	1	1	1	1	1
FIRST FLOOR-TOILET	54.000	1 per 9.3 Sqm.	9.3	6											
Required Toilet Fixtures of 1ST floor		PROVIDED													
WC (M)	1	1													
WC (F)	1	1													
Washbasins (M)	1	1													
Washbasins (F)	1	1													
Urinals	2	2													

PLUMBING VERTICAL PIPES SCHEDULES:-

1	SOIL SOIL PIPE
2	SOIL WASTE PIPE
2A	SOIL KITCHEN WASTE PIPE
3	SOIL VENT PIPE
4	DOMESTIC WATER SUPPLY BRANCH PIPE
5	FLUSHING WATER SUPPLY BRANCH PIPE
6	HOT WATER SUPPLY PIPE
7	HOT WATER RETURN PIPE
8	DOMESTIC WATER RISER TO OHT
9	FLUSHING WATER RISER TO OHT
RP	RAIN WATER PIPE FROM TERRACE
FT	FLOOR TRAP 100x100mm
FD	FLOOR DRAIN 100x50mm
	RAIN WATER KHAIRA SIZE 600X450 MM

NOTE:-PLUMBING SYSTEM IS HYDROPNEUMATIC SYSTEM

DOOR SCHEDULE

MAS ENTATES - CLUB

Tag	Width (MM)	Height (MM)	Sill (MM)	Lintel (MM)	DOOR TYPE	OPENING TYPE	LOCATION
SCHEDULE OF DOOR FRAMES							
D1	1800	2400	0	2400	SCHEDULE OF NON FIRE RATED DOORS	SINGLE LEAF DOOR	
D2	1200	2400	0	2400	WOODEN FLUSH DOOR	SINGLE LEAF DOOR	
D2A	1200	2400	0	2400	WOODEN FLUSH DOOR	SINGLE LEAF DOOR	
D3	1800	2400	0	2400	WOODEN FLUSH DOOR	DOUBLE LEAF DOOR	
D3A	2000	2400	0	2400	WOODEN FLUSH DOOR	DOUBLE LEAF DOOR	
D4	2000	2400	0	2400	WOODEN FLUSH DOOR	DOUBLE LEAF DOOR	
D5	900	2400	0	2400	WOODEN FLUSH DOOR	SINGLE LEAF DOOR	
SCHEDULE OF FIRE RATED DOOR							
FD1	2000	2400	0	2400	METAL DOOR WITH VISION PANEL (MIN. 2HR. FIRE RATING)	DOUBLE SHUTTER, OPENABLE OUTSIDE	
FD1A	2000	2400	0	2400	METAL DOOR WITH VISION PANEL (MIN. 2HR. FIRE RATING)	SINGLE LEAF DOOR	
SCHEDULE OF GLASS DOOR							
GD1	2000	4800	0	4800	DOUBLE SHUTTER, OPENABLE INSIDE	GLASS DOOR AS SPEC	
GD2	2000/3000	4800	0	4800	DOUBLE SHUTTER, OPENABLE INSIDE	GLASS DOOR AS SPEC	
GD2A	2000/3000	4800	0	4800	SINGLE SHUTTER, OPENABLE INSIDE (MIN. 2HR. FIRE RATING	GLASS DOOR AS SPEC	
GD3	3000/4800	4800	0	4800	DOUBLE SHUTTER, OPENABLE	GLASS DOOR AS SPEC	
SCHEDULE OF GLASS DOORS							
GD4	900	2700	100	2400	SINGLE SHUTTER, OPENABLE INSIDE (MIN. 2HR. FIRE RATING	GLASS DOOR AS SPEC	FHC DOOR
SCHEDULE OF FLUSH DOORS							
SD	ASPLAN	4800	0	4800	SCHEDULE OF GLAZING		
SCHEDULE OF GLAZING							
GL	ASPLAN	4800	0	4800	EXTERIOR GLAZING		
GL1	ASPLAN	4800	0	4800	EXTERIOR GLAZING		swimming pool deck area
SCHEDULE OF OPENINGS							
LD1	900	2400	0	2400	INTERIOR GLAZING	ASVENDOR	
LD2	900	2400	0	2400	INTERIOR GLAZING	ASVENDOR	

FIRST FLOOR PLAN (CLUB) LVL +7050

FIRST FLOOR AREA CALCULATION

SANCTIONED TO BE READ WITH THIS OFFICE MEMO NO.: DATED :

Note :-

1. BUILDING HAS AUTOMATIC SPRINKLER SYSTEM WHEREVER REQUIRED BY NBC.
2. BUILDING WILL BE DESIGNED (STRUCTURES) AS PER RELEVENT IS CODES FOR EARTH QUAKE RESISTANCE.
3. ALL TOILET & KITCHEN HAVE PERMANENT VENTILATION /EXHAUST
4. CLUB IS ARTIFICIALLY LIGHTED MECHANICALLY VENTILATED & CENTRALLY AIRCONDITIONED WITH 100% POWER BACKUP.

Project

PROPOSED BUILDING PLAN OF GROUP HOUSING COLONY FOR PHASE 3 AREA MEASURING 8.19375 ACRES PART OF TOTAL LICENSED LAND MEASURING 34.175 ACRES(LICENCE NO. 16 OF 2008 DATED 31.01.2008, LICENCE NO. 28 OF 2008 DATED 17.02.2008, LICENCE NO. 44 OF 2011 DATED 13.05.2011) IN SECTOR-59 GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY BTVS BUILDWELL PVT LTD. AND OTHERS IN COLLABORATION WITH BASE EXPORTS PVT LTD. AND BUZZ HOTELS PVT. LTD.

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DTP(HQ) | ATP(HQ) | JD. | ATP

Director (Building Plans) (HQ) | FSO, (HQ) Member BPAC

OWNER'S SEAL & SIGNATURE

DINESH KUMAR PA(HQ)

BIP HOLDER SEAL & SIGNATURE

ARCHITECT'S SEAL & SIGNATURE

REENA SHARMA B/ARCH/1999/52 CA/2017/7247

JUL.- 2026 | Scale : 1:100

Drawing Title:-
1ST FLOOR PLAN & AREA CALCULATION (CLUB)

Drawing No:-
C-02

03-20072026