

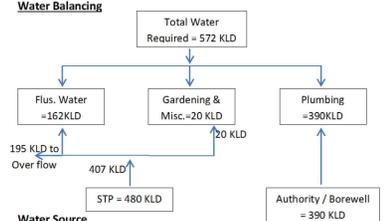
SITE PLAN

Water requirement

S.NO	PARTICULARS	POPULATION	WATER CRITERIA		COLD WATER DEMAND	FLUSHING WATER DEMAND
			CWS	FWS		
		Nos	LPCD	LPCD	LPD	LPD
A						
1	Unit - 91 Nos. @ 5 person (3 Bed room) Tower - A	455	105	45	47,775	20,475
2	Unit - 137 Nos. @ 5 person (3 Bed room) Tower B1	685	105	45	71,925	30,825
3	Unit - 137 Nos. @ 5 person (3 Bed room) Tower B2	685	105	45	71,925	30,825
4	Unit - 137 Nos. @ 4 person (2 Bed room) Tower C1	548	105	45	57,540	24,660
5	Unit - 137 Nos. @ 4 person (2 Bed room) Tower C2	548	105	45	57,540	24,660
6	Unit - 137 Nos. @ 4 person (2 Bed room) Tower D	548	105	45	57,540	24,660
7	For Community BUA = 1000 Sqm. Water Requirement for employees in Community Block @ 1 person/ 10 Sqm.	100	25		2000	2500
8	Shops - 18Nos. @ 4 person	72	20	25	1440	1800
9	Visitors	100	9	6	900	600
10	Gardening/Landscaping (@3 per sqmt)				0	20,000
11	Security & Maintenance Staff	50	20	25	1000	1250
12	Miscellaneous Uses (water features, back wash, mopping etc.)				20,000	0
TOTAL WATER REQUIREMENT					389,585	182,255

TOTAL DAILY WATER REQUIREMENT = 571,840 LITRES ~ 572 KLD

90% of Water flow to STP : 90% x 531,840 Liters = 478,656 Liters
 CAPACITY OF STP : 478,656 Liters ~ 480 KLD
 Treated water from STP (85%) : 85% x 478,656 Liters = 406,857.6 Liters ~ 407 KLD



Water Source
 Authority water may not be sufficed to fulfill the water requirement; hence the 5 nos (4 duty + 1 stand by) of bore wells of 10,000 LPH (10 hours fill time) shall be planned.

WATER STORAGE REQUIREMENT

S. No.	Item Description	Daily Requirement	Factor of storage	Total water Requirement (litres)
1.	Fresh Water Requirement from Bore well / Authority	390,000	1.5	585,000
2.	Treated Water From STP	407,000	1.0	407,000
3.	Fire Protection - Ground level (Tower A)	175,000	1	175,000
4.	Fire Protection - Roof Level (Tower A)	25,000	1	25,000
5.	Fire Protection - Roof Level (Tower B1&B2)	25,000	2	50,000
6.	Fire Protection - Roof Level (Tower C1&C2)	25,000	2	50,000
6.	Fire Protection - Roof Level (Tower D)	25,000	1	25,000
7.	Community Block - Roof Level	10,000	1	10,000
8.	Commercial Block - Roof Level	10,000	1	10,000
Total requirement				1,337,000

Water Storage

S.No.	Tank type	No of Partition	Tank Capacity per partition	Total Tank Capacity	Tank Location
1.	Fire Water	1	175,000	175,000	Underground
2.	Raw Water	2	110,000	220,000	Underground
4.	Treated Water	2	110,000	220,000	Underground
6.	Flushing Water	2	140,000	280,000	Underground, at STP
7.	Treated Water (Tower A)	1	25,000	25,000	Overhead
8.	Treated Water (Tower B1&B2)	2	25,000	50,000	Overhead
9.	Treated Water (Tower C1&C2)	2	25,000	50,000	Overhead
	Treated Water (Tower D)	1	25,000	25,000	Overhead
10.	Treated Water (Community)	1	3,000	3,000	Overhead
11.	Treated Water (Commercial)	1	3,000	3,000	Overhead
12.	Flushing Water (Tower A)	1	20,000	20,000	Overhead
13.	Flushing Water (Tower B1&B2)	2	20,000	40,000	Overhead
14.	Treated Water (Tower C1&C2)	2	20,000	40,000	Overhead
	Flushing Water (Tower D)	1	20,000	20,000	Overhead
15.	Flushing Water (Community)	1	2,000	2,000	Overhead
16.	Flushing Water (Commercial)	1	2,000	2,000	Overhead
17.	Fire Water (Tower A)	1	25,000	25,000	Overhead
18.	Fire Water (Tower B1&B2)	2	25,000	50,000	Overhead
19.	Fire Water (Tower C1&C2)	2	25,000	50,000	Overhead
	Fire Water (Tower D)	1	25,000	25,000	Overhead
20.	Fire water (Community)	1	10,000	10,000	Overhead
21.	Fire (Commercial) water	1	10,000	10,000	Overhead
				Total	1,345,000



WATER SUPPLY LAYOUT

PROJECT :-
 PROPOSED GROUP HOUSING AT PLOT No. GH-01C, SECTOR -16, G. NOIDA.

BUILDERS & PROMOTER :-
 M/s COSMOS INFRAESTATE PVT. LTD. ADD:- B150, SEC 63, NOIDA.

DRAWING TITLE :-
 WATER SUPPLY LAYOUT PLAN

ARCHITECTS :-
 Space Designers International Architects Pvt. Ltd.
 5 / 1306, VASUNDHARA, CHAZIABAD PH- 0124-425274. Mob: 9811070389, 9811382631 e-mail: spacedsi@gmail.com, www.spacedsi.com

Space Designers
 architects & planners

DRAWN BY :- SANJAY
CHECKED BY :- VISHAL
SCALE 1:350
DATED :-

ARCHITECT'S SIGN.
 OWNER'S SIGN
 DRG.NO. WS-01

Flushing and Fire Protection Consulting Services
 SYSTEM CONSULTANCY SERVICES
 P-1728/16, Block, Sector 16, Gurgaon
 Email: water@spacedsi.com