

**WATER REQUIREMENT CALCULATIONS**

S.No.	Description	Built-up Area (Sq.M)	Horticulture Water Requirement per Sq.M Area	No. of Units / Population	Unit Population	Total Population	Domestic Fresh Water Requirement (A)	LPD	Recycle Water Requirement (B)	LPD	Total Water Requirement (A+B)	LPD	Flow to Sewer	
1	Apartments			2816	4.5	12672	90	1140480	45	570240	1710720	912384	513216	1425600
2	Club					1270	45	57150	0	57150	45720	0	45720	
3	Floating Population					630	5	3150	10	6300	9450	2520	5670	8190
4	Staff					630	25	15750	20	12600	28350	12600	11340	23940
5	Commercial (L/S)							15000	0	15000	12000	0	12000	
6	Filter Backwash							40000		40000			40000	
7	Makeup Water for Swimming Pool							15000		15000			15000	
8	Horticulture	28976.9	7					209138.3		209138.3				
	<b>Total</b>							<b>12,86,530</b>		<b>7,98,278</b>	<b>20,84,808</b>	<b>9,85,224</b>	<b>5,70,226</b>	<b>15,55,450</b>

**SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION**

S.No.	Description	Water Requirement (KLD)
1	Domestic Fresh Water Requirement	1,287
2	Recycle Water Requirement	798
3	Flow to Sewer	1,555
	<b>STP Capacity required</b>	<b>798</b>
	<b>STP Capacity rounded off</b>	<b>2 modules of 400 KLD each</b>
4	Net sewage balance (to discharge into sewerage system)	757
	<b>UGT Capacity</b>	<b>900 KL</b>
	For Domestic Use	900 KL
	For Fire Fighting (as per Fire NCC)	200 KL
	For Water Curtain (as per NBC)	100 KL
	<b>Total UGT Capacity</b>	<b>1200 KL</b>



**LEGEND :**

S.No.	SYMBOL	DESCRIPTION
1.		RISING MAIN LINE (FROM TOWER TO UG)
2.		MUNICIPAL WATER SUPPLY PIPE LINE
3.		RECYCLED WATER SUPPLY LINE FOR FLOORS
4.		RECYCLED WATER SUPPLY LINE FOR HORTICULTURE
5.		DOMESTIC WATER SUPPLY LINE
6.		PROPOSED TUBE WELL
7.		GARDEN HYDRANT
8.		BASEMENT RETAINING WALL

**LEGEND :**

S.No.	SYMBOL	DESCRIPTION
1.		FIRE LINE
2.		YARD HYDRANT
3.		63 MM DIA. SINGLE HEADED HYDRANT VALVE WITH 2 ROS. 15 M. LONG, 63 MM DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE
4.		4 WAY FIRE BRIGADE INLET CONNECTION
5.		2 WAY FIRE BRIGADE DRAWOFF CONNECTION
6.		BUTTERFLY VALVE
7.		NON RETURN VALVE (CHECK VALVE)
8.		ISOLATING VALVE WITH MASONRY CHAMBER

**PROJECT INFORMATION**

Project: **PROPOSED GROUP HOUSING FOR RG LUXURY AT, PLOT NO. GH 07A SECTOR 18B, GREATER NODA WEST GAUTRAMBUH NAGAR (GP)**

Title: **LAYOUT PLAN**

Sub-title: **EXTERNAL WATER SUPPLY SYSTEM**

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Dwg. no.: **RG / 10837 / ES - 03**

Scale: **1 : 770**

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