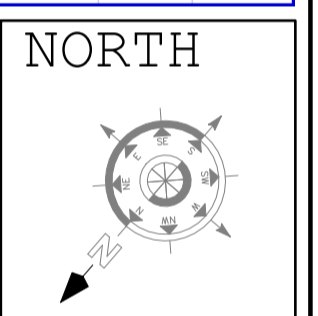


WATER REQUIREMENT CALCULATIONS																
S.No.	Description	Built up Area (Sq.M)	Horticulture Water Requirement (per Sq.M Area)	No. of Units / Seats	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)		Flow to Sewer			
							LPCD	LPD	LPCD	LPD	LPD	Domestic 80%	Flushing 100%	LPD		
1	Population (Sales Basement & Street Floors) (Shopping)	4052			3 SqM/person	1350										
2	Population (Upper Sales Floors) (Shopping)	3966			6 SqM/person	660										
3	Permanent Population (Shopping)				@ 25% of total population of Shopping	500	25	12500	20	10000	22500	10000	10000	20000		
4	Transient Population (Shopping)				@ 75% of total population of Shopping	1510	5	7550	10	15100	22650	6040	15100	21140		
5	Office Population	5065			10 SqM/person	510	25	12750	20	10200	22950	10200	10200	20400		
6	Floating Population (Office)				10% of above	51	5	255	10	510	765	204	510	714		
7	Banquet	940			1.4 SqM/person	680	25	17000	20	13600	30600	13600	13600	27200		
8	Restaurant	340			1.8 SqM/person	190	55	10450	15	2850	13300	8360	2850	11210		
9	Guest Rooms			57	2	114	120	13680	60	6840	20520	10944	6840	17784		
10	Service Apartments			72	2	144	90	12960	45	6480	19440	10368	6480	16848		
11	Maintenance Staff					100	25	2500	20	2000	4500	2000	2000	4000		
12	Filter Backwash							6500			6500		6500	6500		
13	AC Makeup Water									78000	78000					
Total											96,145	1,45,580	2,41,725	71,716	74,080	1,45,796

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION	
Description	Water Requirement (KLD)
Domestic Fresh Water Requirement	96
Recycle Water Requirement	146
Flow to Sewer	146
STP Capacity required	146
STP Capacity provided (by adding 20% as per MOEF)	175
Net water balance (to discharge into sewerage system)	0
UGT Capacity	
For Domestic Use (24 hrs storage)	100 KL
For Fire Fighting	200 KL
For Water Curtain	100 KL
Total UGT Capacity	400 KL



rev. no.	date	revision
..

project
PROPOSED LAYOUT PLAN OF COMMERCIAL PLOT No.-5 (T-5) AT INTERNATIONAL BUSINESS BAY-1 SUSHANT GOLF CITY HI-TECH TOWNSHIP SULTANPUR ROAD, LUCKNOW (U.P.).

title
LAYOUT PLAN

subtitle
EXTERNAL WATER SUPPLY SYSTEM

drawing released for
 APPROVAL SUBMISSION
 ADVANCE COPY CONSTRUCTION

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scale 1 : 210 designed by Badri Vishal

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LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.	---	RISING MAIN LINE (FROM T/W TO U.G.T.)
2.	---	MUNICIPAL WATER SUPPLY PIPE LINE
3.	⊙	PROPOSED TUBE WELL
4.	---	BASEMENT RETAINING WALL

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.	---	FIRE LINE
2.	YH	YARD HYDRANT 63 M.M. DIA. SINGLE HEADED HYDRANT VALVE WITH 2 NOS. 15 M LONG, 63 M.M. DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE
3.	---	4 WAY FIRE BRIGADE INLET CONNECTION
4.	---	2 WAY FIRE BRIGADE DRAWOUT CONNECTION
5.	---	BUTTERFLY VALVE
6.	---	NONRETURN VALVE (CHECK VALVE)
7.	---	ISOLATING VALVE WITH MASONRY CHAMBER