

120 M WIDE ROAD (LEVEL ± 00)

SITE PLAN LAYOUT

PLUMBING LEGEND :

S.No.	SYMBOL	DESCRIPTION
1.	M.H. ●	SEWER MANHOLE
2.	—●—	SEWER LINE
3.	M.H. ●	STORM WATER MANHOLE
4.	—●—	STORM WATER LINE
5.	□	DESILTING CHAMBER
6.	○	RECHARGE PIT
7.	—●—	FLUSHING WATER SUPPLY LINE
8.	—●—	MUNICIPAL WATER LINE FOR U.G. TANK FILLING
9.	—●—	DOMESTIC WATER SUPPLY LINE TO BUILDING
10.	—●—	SEWER BY PASS LINE
11.	—●—	IRRIGATION WATER LINE
12.	⊗	GARDEN HYDRANT
13.	R.L.	ROAD LEVEL
14.	I.L.	INVERT LEVEL
15.	C.L.	CONNECTION LEVEL

C) SOURCE OF WATER

a)	TUBE WEL/TANKER	LTRS.
b)	MUNICIPAL MAIN	3,94,256 LTRS.
c)	STP RECYCLED	4,60,092 LTRS.
d)	TOTAL DAILY WATER DEMAND	6,96,064 LTRS

S.NO.	BUILDING NAME	NO. OF FLOORS	UNITS/ BLOCK	PER UNIT POPULATION	TOTAL POPULATION	LPCD	TOTAL REQUIREMENT	DOMESTIC WATER	FLUSHING WATER	SEWERAGE FLOW (LITRES)	
1	Lowrise - 3BHK UNITS	(G+4)	470	6	2820	135	380700	253800	126900	80%	
2	Studio Apartments	(S+13)	702	2	1404	135	189540	126360	63180	164288	
3	Visitors @ 15% of Population				634	15	9504	6336	3168	8237	
4	Commercial - Area 1430 sqmt				240						
					1430 sqmt @ 6 sqmt / person						
					10% fixed population	24	45	1080	600	480	960
					90% floating population	216	15	3240	2160	1080	2808
5	Horticulture				3.68 Acre @ 25000 Ltrs/Acre			92000			
6	Waterbody & Swimming pool makeup water				on lumpsum			5000		5000	
7	Road washing				on lumpsum			15000			
					1172		5098	696064	389256	194808	511213

A) TOTAL DAILY WATER DEMAND

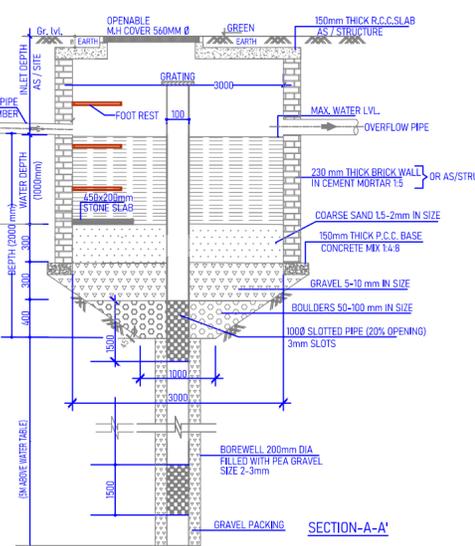
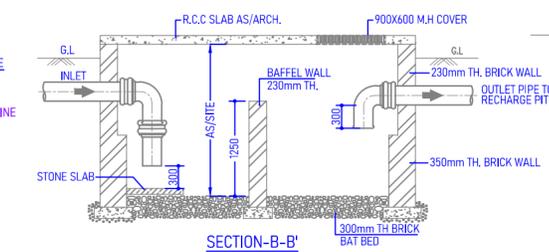
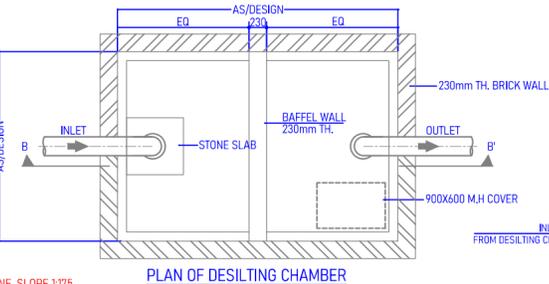
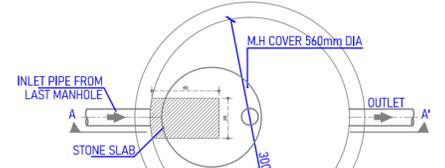
a)	TOTAL DOMESTIC & FLUSHING USE	
b)	TOTAL DOMESTIC	389256.00 LTRS.
c)	TOTAL FLUSHING	194808.00 LTRS.
	TOTAL	584064.00 LTRS.
d)	WATER BODIES/ SWIMMING POOL	5000.00 LTRS.
e)	HORTICULTURE/ ROAD WASHING	107000.00 LTRS.
	GRAND TOTAL	6,96,064.00 LTRS.

B) SEWAGE FLOW

a)	DAILY REQUIREMENT	5,84,064 LPD
b)	RATE OF FLOW TO SEWER	Domestic@80% + Flushing@100%
c)	FLOW TO SEWER	5,11,213 LPD
d)	SEWAGE FLOW	511 KLD
e)	CAPACITY OF SEWAGE TREATMENT PLANT	510 KLD
f)	WATER AVAILABLE FOR RECYCLING (FLUSHING & GARDENING)	460 KLD

Under Ground water tank

Description	Tank capacity	No. of Tank	Comparatmen t Capacity	Water Depth	Required Area
Fire water tank (as / N.B.C-2016)	400 Cum.	2 Nos.	200 m ³	4 mtr.	100.00
Raw water tank	200 Cum.	2 Nos.	100 m ³	4 mtr.	50.00
Domestic water tank	200 Cum.	2 Nos.	100 m ³	4 mtr.	50.00
Total area required for Under Ground water tank	A				225 sqm.
Total area required for filtration plant room	B				175 sqm.
Total (A+B)					400 sqm.
Sewerage Treatment Plant	510 KLD		Area required for STP		425 sqm.



OWNER SIGN.

For IITL-Nimbus The Palm Village
 Authorized Signatory

ARCHITECT SIGN.

Praveen Kumar
 CA/2016/177228
 D-110, GAMMA-1 GREATER NOIDA
 Mob.No. 8010016019

RAIN WATER HARVESTING CALCULATION
 PLOT AREA = 47776.52 SQ.M, GROUND COVERAGE = 16779.46 SQ.M
 ROOF TOP AREA = GROUND COVERAGE = 15448 SQ.M
 PAVED AREA = TOTAL PLOT AREA-ROOF TOP AREA
 = 47776.52 - 15448 = 32328.52 SQ.M
 RUN OFF LOAD = ROOF TOP AREA = 32328.52 X 0.09 X 0.8
 = 2327.65 CUM/HR
 TAKING 15 MINUTES TIME, TOTAL VOLUME OF STORM WATER
 = 2327.65 / 4 CU.M=581.91 CUM
 VOLUME OF A SINGLE RECHARGE PIT
 = 4 X 4 X 3.1 = 49.6 CU.M
 HENCE NO. OF PITS REQUIRED = 581.91/49.6
 = 11.73 NO.S, PROPOSED PIT = 12 NO.S SAY

AUTHORITY SUBMISSION DRAWING

PROJECT: **THE PALM VILLAGE, AEROCITY**

OWNER: **M/s. IITL - NIMBUS**
 313-315, Vikasdeep Building, District Centre, Laxmi Nagar, Delhi-110092

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DRAWING TITLE: **SITE PLAN RAIN WATER HARVESTING**

SCALE: 1 : 700 @ A1
 DATE: 12/07/2023
 DRAWN BY: PANKAJ
 CHECKED BY: TARUN

DWG. NO. **ADC-TPV-PL-02**

