

Self Sustainability Case Study



Project: Recycling of kitchen & Bathroom waste water for horticulture.

Wastewater Discharge of Kitchen + Washing Machine.

150 LPD /
Apartment.



Wastewater Discharge of Single Bathroom

100 LPD /
Apartment.



Total Wastewater Discharge: 250 LPD / Apartment.

For 3 Blocks:

250 LPD X 48 Apartments.
= 12,000 LPD (Liters Per Day)



Area under consideration for
horticulture:

2 Acres.



Current Water
Consumption:

50KLPD
(Kilo Liters Per Day)



Current Electricity Consumption:
45KW Per Day.



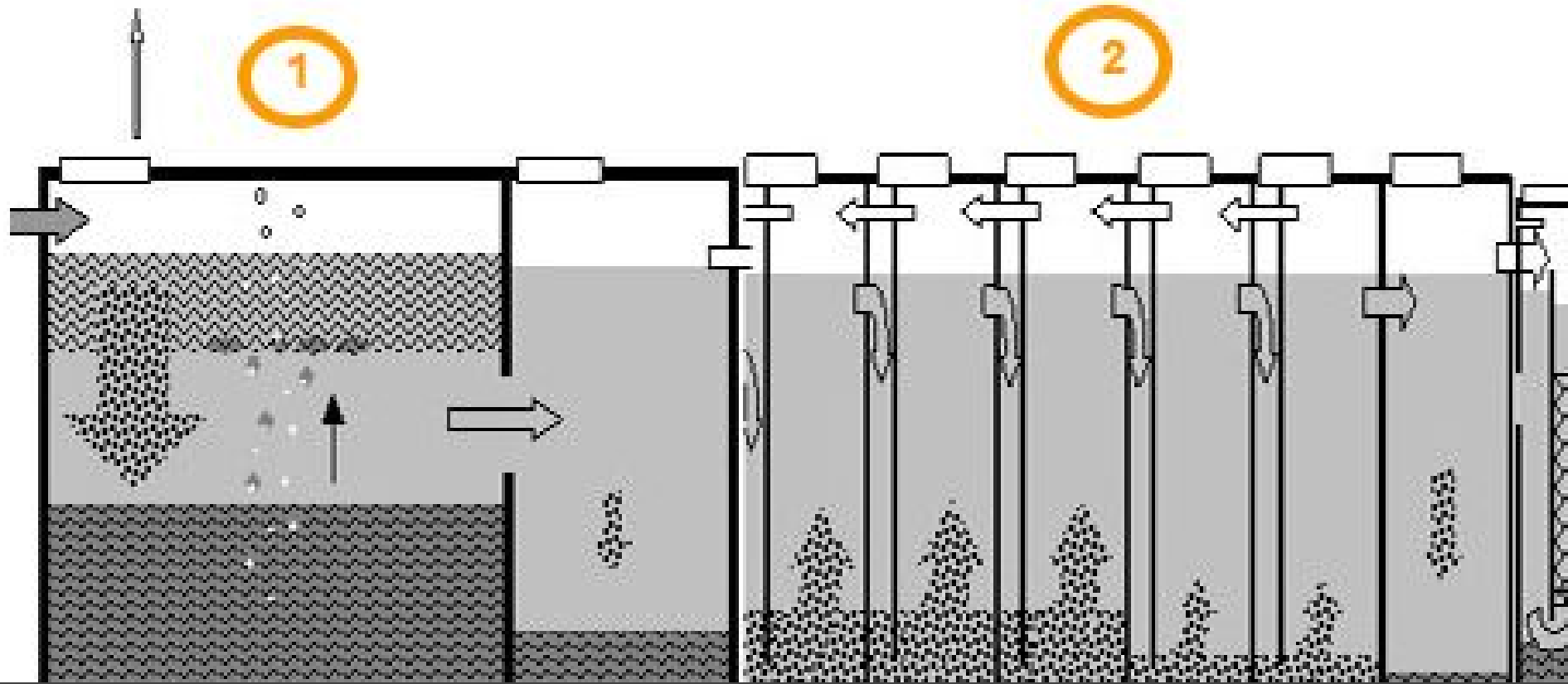
Concept

Each block = **16 Apartments.**
Discharge = **4000 LPD**





Grease trap would be installed @ each block to handle this sewage.



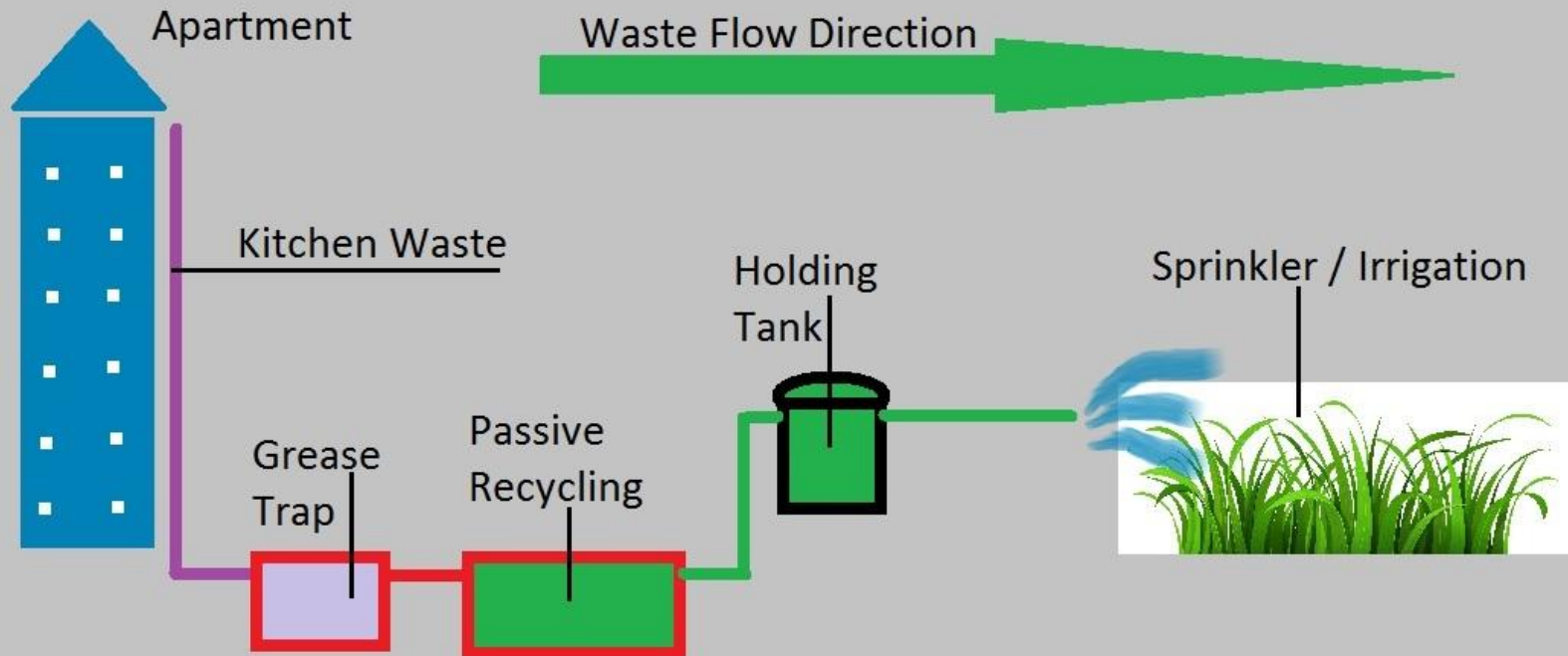
Post Grease Removal it would go to passive treatment to remove organic matter and impurities.

Which would be built
somewhere in the green
area.



Post Treatment this water would be utilised to irrigate the green area.





Savings

- 7,800,000 PA (7.8 Million Liters / 78 Lac Liters).
- 6,000 KW Electrical Units PA.

A person is sitting on a rocky cliff, looking out over a vast sea of clouds. The sun is setting on the horizon, creating a warm, golden glow. The sky is a mix of blue and orange. The clouds are white and fluffy, covering the entire landscape below. The person is wearing a dark jacket and shorts. The overall mood is contemplative and serene.

What Next???





RWA





Builder



RWA



Thank You