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Subject :-> Environmental management

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Teacher :-> Engr M Hasnain

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Question => 1

Aswer = 1

Summary

The pros and Cons of waste material

Introduction

A residents of universty town have launched a complain of on waste of their area. universty Town is majorly residential area. also have some chemicle factory, have some resturants and some dispenecery. and I am the Inspecter to inspect this Problem and generate a report in which we will classify the waste effect of waste and wast treatment of wast for this area

Main Body

we are inspected a problem of university Town in which a residents launched a complaint on waste of their area. The university Town is majority residential area have some some chemicle factorys, resturants and dispensary.

we know that all living thing are create waste from houses is the main waste is domestic waste and plastic bags effect of waste:-

First the waste effect our health and aft also affected on socio economic condition.

Also affect on climate and produce foul smell

3rd we will think for its treatment-

1) waste prevention and minimsation
2) Reuse
3) Recycle
4) composting
5) land filling

↳ Collection of waste material

Conclusion :->

we are suggested that the dust bin are situate / construct in every street that the people use it to the all the waste are throw in it
Also creat seperate bin for seperated waste. E - waste

↳ Resuse => Re use are Repair the electronic equipment
↳ Donate => Donat the electronic equipment to non profit organization
↳ Recycle => Take back programe of electronic goods
↳ Dispose => secure in canal fill

Table of Content

- Summary
- Introduction => waste = Area
- main body => discused the Problem
- Conclusion => Taking a decision from observation

Q = 2
A = 2

Give Data

population of the area = 8000
each generating of solid waste = 0.12 kg/day
houses = 500
Each generating 50 kg/day
generation of waste from dispensary
= 2 tons/m.. $\frac{2 \times 1000}{30} = 66.66$ kg/day

solution

Assume the waste generation from restaurant 4 tons/month

$= \frac{4 \times 1000}{30} = 133.3$

Now assume the density = 125 kg/m³

$\text{volume} = \frac{\text{mass}}{\text{density}}$ — ①

Now for to Total mass

waste of population 8000 * 0.12 kg day = 960
wass of house = 500 × 50 = 25000 kg/day

waste of restuvate = 133.3

waste of dispensor = 66.66

Total mass of waste

M = P + H + D + R

910 + 25000 + 66.66 + 133.3

mass = 26159.96

Now put in (1)

$$\text{volum} = \frac{\text{mass}}{\text{density}} = \frac{26159.96 \text{ kg/day}}{125 \text{ kg/m}^3}$$

volume = 209.27 m^3

Area for dumping

$$\text{Area} = \frac{\text{Vol}}{H}$$

$$\frac{209.27}{0.5} =$$

Area = 418 m^2