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ABSTRACT

A car wash or auto wash is facility used to clean the cars outsides and sometimes inside of vehicles. That the service stations wastewater in now a days has to contribute a vital role in water pollution. At the point where the urban areas locate more service stations than as compared to rural areas. Urban areas mainly categorized into cities, towns, conurbation or suburbs. The wastewater supply from service station flows directly into domestic wastewater, where the wastewater quality rises every day. Therefore a specialized type of treatment is required for each service station in order to minimize pollution or contamination from the service station.

1. INTRODUCTION

With the modern convenience of auto mobile car washes, It may be difficult to remember that the industry was not always so high tech. Through other commercial car washes came before it the first semi-automatic car wash, in united states, made its debut in 1946 & from there the industry has grown in both size & sophistication.

The start of history of carwash dated back into 1914. People used manpower to push or move the cars through stages of process. Eventually manual car wash operation peaked at 32 drive through facilities in united states. Prior to this time, The evolution of car washing wash just at the beginning & that the automatic car washing was born. The semi-automatic car wash was active for the first time in Detroit, Michigan using automatic pulley system & manual brushing.

Today, however, this car washing system plays a significant role in water pollution. Number of registered & non-registered service station are located in the city of Kolhapur, but the treatment of wastewater is not carried out properly, which affects the water quality. Thus water pollution management processes are necessary.

2. METHODOLOGY

Among this review, we will consider the content in the service station wastewater. For the following methods, the experimental setup is needed to calculate the proportion of wastewater content:-

1. pH
2. Turbidity
3. Biological oxygen demand
4. Chemical oxygen demand
5. Total suspended solids
6. Total dissolve solids
7. Oil and grease proportion

The proportion of these various methods must be defined by the Indian Standard, since these tests assess the water quality.

In the area of Kolhapur city we have 5 wards in which we have to take sample of these 5wards so that each ward includes one major service station for vehicle. At which 1L sample is collected from these 5wards. After that the sample is tested in the environmental laboratory and then after getting the results of sample testing conclude the proportion of content and from the given results we can prepare the treatment or management process which is to be needed.



(These are the 5 different service stations from Kolhapur city region)

3. DISCUSSION

The 5 wards or regions in Kolhapur city shows the clear difference with respect to the amount of water consumed per vehicle & the water lost to evaporation & carry out by car wash type. The discussion begins with comparison of water consumption & the content which are in the service station wastewater regional comparison & then difference between each region is also examined. A discussion of water saving obtained by those car washes, which install reclaim system, follows along with the potential for additional water conservation and financial benefits.

4. CONCLUSION

This review highlighted the amount of content or parameters in service station wastewater that it requires a specialized type of treatment process at each and every service station. Hence from the study it is clear that the service station is also major water pollution, as the management of this issue is needed.