

**Stormwater Management Master Plan For Calicut City**

Cities are growing very fast and planning is important aspect of development, Stormwater management is an important factor to be considered in planning. Water is required for needed for day to day activities. Stormwater which is provided by nature is not properly utilized and managed. Many cities face problems due to flooding, water pollution, water shortage, which is due to lack of stormwater management. Stormwater management can provide asset to the city but it requires proper planning.in this I study about the methods in planning for stormwater management in city planning.

Calicut city was my study area. Calicut city faces water logging and flooding issues during heavy rain leads to traffic conjunction, solid waste deposit, over flow of drainages and the waste materials were taken to nearby waterbodies by the stormwater which effect the water quality and many other issues. According to my study, I analyzed the topographical features of the city, climatic condition, existing system management of stormwater and the issues faced by the people during the waterlogging.

Based on the study and analysis, city does not have proper system of management of stormwater and has poor solid waste management system. The people living in the city depend on public water supply to meet the daily needs and payed for it and the wells and water bodies in the city have poor quality of water. Based on the study on annual rainfall of the city, if the rainwater is properly utilized it can meet many needs of the city and it can improve the landscape of the city.

Based on my finding and analysis I proposed for an integrated stormwater management system which include Flood reduction which means minimizing peak stormwater discharges from urban catchments

Pollution minimization by preventing, collecting or managing pollution loads

Stormwater retention by harvest or reuse of rainwater and stormwater runoff within or near the urban catchment

Urban landscape improvement by functionally incorporating stormwater into urban streetscapes and green areas.

I also proposed strategies for household management of stormwater, utilization of stormwater for improving the urban landscape and to meet the needs of the city. Water bodies in the city is utilized to meet the storage of water and improve the quality of the water flowing into the water bodies. Proper stormwater management can improve overall quality of the city and the people.

***Keywords:*** *stormwater, management, flooding, water pollution.*