

ABSTRACT

The population in India is increased day by day so that it leads to increase the utilization of plastic bottles which are non-biodegradable in nature. We are using this non-biodegradable material and make it into useful material. In this project, we are using municipal waste (plastic bottle) for bitumen road construction. Bitumen has been used for various purposes including road making.

Municipal waste such as plastic bottles is cut into 4 to 5mm and mixed in aggregates in various percentages. The durability of the roads laid out with shredded plastic waste is much more compared with roads with the ordinary mix. The use of the innovative technology is not only strengthened the road construction but also increased the road life as well as will help to improve the environment and also creating a source of income.