

ABSTRACT

The quantum of plastic waste in solid waste management is increasing due to increasing population, urbanization development activities and changes in the life style which leading wide spread on the land space. Thus, disposal of plastic waste become a serious problem globally due their non-biodegradability.

Different types of wastes usage are Hospital waste, Municipal waste and Plastic waste of this various materials. Plastic waste and municipal solid waste are of great concern. Plastic waste consisting of carry bags, cups and teramoles can be used as a coating over aggregate and this coated stone can be used in the road construction. Once plastic waste separated from municipal solid waste the organic matter can be converted into manure and used. This project will conduct a study on recycling plastic waste and blending it with bitumen to lay roads. These wastes mix with bitumen need to be construction of the plastic roads 4.5% 5% and 5.5% of plastic is used with the mixed bitumen to perform the test. The plastic waste should be in the 40 to 60 microns. The main object of paper is to analyze and study how the waste plastic will be effectively utilized in construction of flexible pavements as a binder material for replacing the content of bitumen and in detailed process and there is variation in strength of bitumen by adding plastic which increases strength of bitumen.

Keywords: Plastic waste, Modified Bitumen, Bitumen, aggregates.