

ABSTRACT

Waste plastic materials such as cups, polythene bags, is increasing day by day leading to the serious environmental hazards as the plastic is non-biodegradable. Thus, this waste needs to be removed from the environment or utilized effectively. It has been seen that the waste plastic materials can improve the desired properties of bituminous mix for repairs and construction of bituminous pavements. The molten plastic can be used to coat the aggregates and also as a partial replacement of bitumen in the bituminous mix. The mix polymer coated aggregate and modified bitumen have shown higher strength. Use of this mix for road construction helps to use plastic waste effectively. Now a day's waste plastic is used in bituminous road construction. This technology is not a new concept but rather not practiced widely. We are using plastic about 5%, 7%, 9% and 10% in bitumen mix design. Also 5% to 20% of waste aggregate used in bitumen mix design.