Utilization Of Waste Rubber Tyres In Flexible Pavements.

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ABSTRACT

Tyre is one of man's most useful inventions. But if the increasing numbers of vehicles and their regular mantainence has increased the waste tyre number to a huge quantity occupying scarce land resources. Scrap tires represent one of several special wastes that are difficult for municipalities to handle. Whole tires are difficult to landfill because they tend to float to the surface. Stockpiles of scrap tires are located in many communities, resulting in public health, environmental, and aesthetic problems.. Therefore a study is undertaken to evaluate total quantity of waste tyres generation in Hubli-Dharwad region and attempt is made to use them road pavements. The investigations involve literature survey, survey, lab study and analysis.

The results revealed that the CBR value at 10% is 1.54 which is the highest and also close to the control CBR without SR 1.63.Therfore it is concluded that the addition of SR has the characteristics of increased strength values, and also solves the problem associated with disposal of waste rubber tyres to some extent.

It is observed that Marshall Stability value increases with rubber content upto 4% and thereafter decreases. Therefore CRT can be safely used upto 4% of weight of Bitumen in flexible pavements. Such an attempt will solve the problem of disposal at the same time suggests the utilization of waste rubber tyres.