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Experimental Study on Addition of Polypropylene Fiber & Crumb Rubber in Bituminous Concrete Mix

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Abstract: Bitumen is used in road pavement as the binder of aggregate in a great extent all around the world. Fibres and waste materials like plastics, rubber tyres can be used to improve the mechanical properties of bituminous mixture in road pavements are known as bituminous mix modifier². Use of this innovative technology not only strengthens the road construction but also increases the road life as well as help to improve the environment. In this present study, an attempt has been made to use polypropylene fiber and crumb rubber to enhance with flexible pavement quality. The main objective of this paper consists of evaluating the advantages of using modified bituminous mixtures in laboratory which are compared with the conventional bituminous mix.

Keywords : bituminous mix modifier; polypropylene fiber crumb rubber; flexible pavement.

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