

Use of Steel Slag in the Road Construction

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Abstract: Roads make a crucial contribution to an economic development and growth and bring important social benefits. They are of vital importance in order to make the nation grow and develop. So, by keeping this in mind, Steel Slag Road came in construction, there is no blasting, drilling, or any crushing to obtain steel slag as it is material waste coming out of steel industry which is further processed and then converted in the form of aggregates material used for constructions.

The use of steel slag as a sustainable substitute for conventional building materials in the construction of roads is the subject of this study. The purpose of the study is to find the ideal mix design for maximum performance as well as to assess the viability of employing steel slag as an aggregate in road construction. To assess the performance of the asphalt mixtures containing steel slag and to quantify the physical and mechanical characteristics of the steel slag aggregate, the technique includes laboratory testing. The study's findings indicate that steel slag can be used as a partial replacement for conventional aggregates in road construction with good outcomes in terms of performance and financial gains.

So, in our project we have tried to use steel slag as replacement of aggregates by performing tests on it we are aiming that road construction may become more economical and road becomes more durable as compared to conventional road construction.

Keywords: Road construction, Steel slag, Aggregates, Bitumen, Experimental testing

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