

PERFORMANCE EVALUATION OF E-WASTE IN FLEXIBLE PAVEMENT – AN EXPERIMENTAL APPROACH

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ABSTRACT

The objective of this study is to investigate the effect of e- waste and fly ash, as a filler replacement, on the strength parameters of bituminous concrete road. It is observed that there is definite increase in Marshall stability and flow value with increase in percentage of e-waste by replacing up to 10 percent aggregates. The use of fly ash as filler cannot increase the strength but helps to attain it nearly equal to that of control mix.

Here in an attempt is made to use the waste products like flyash and e-waste in flexible road construction which affect the environment and are difficult to process.

The study concludes that e-waste and fly ash could be used as filler material in bituminous mixes.

KEY WORDS: E-waste, Fly ash, Flexible pavement.