



Construction and Demolition Waste as a Road Construction Material for flexible pavements

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Abstract

This research is focuses on evaluating the physical properties and durability characteristics of both demolition and process waste for flexible pavement construction. The initial results showed that there is a possibility to replace aggregate base course using crushed concrete material of demolition waste Possibility to replace soil using construction and demolition waste as a stabilization agent are to be studied.

This study included extensive laboratory and field testing. California bearing ratio (CBR), moisture susceptibility and abrasion evaluations tests are conducted. Effects of repeated load over the constructed pavement are evaluated using Non-destructive testing (falling weight deflectometer) on accelerated pavement testing facility.