

# **Laboratory evaluation of local asphalt concrete mix design procedures.**

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Abstract

This research aims at laboratory evaluation of local asphalt concrete mix design procedures for their application to high quality roads, and to minimize permanent deformation in asphalt layers. Two available mix design procedures i.e. Marshall Mix Design and Hveem Mix Design were used to design the mixes. The design mixtures were further subjected to dynamic and static testing. Split tensile strength, resilient modulus and static creep tests were conducted on specimen prepared by both mix design procedures. Field cores from slow lane and fast lane of the selected road sections were tested for resilient modulus, static creep, Marshall stability and Hveem stability. Test results showed that Hveem mix design, seems to be a potential mix design method which can find application for Kingdom roads, since it can identify mixes with high-rutting susceptibility.