

ABSTRACT

Cement grouted bituminous macadam is made up of single sized aggregates with cement grout poured into it. Past researches suggest that some of the individual limitations of bituminous mix and cement concrete mix can be taken care by cement grouted bituminous mix. In the past, some researches has been done on laboratory performance and study of this mix, however no mix design approach has been suggested. Thus, in the present work a systematic approach has been developed for mix design of cement grouted bituminous macadam using volumetric, strength and other performance related parameters. Marshall tests have been conducted on air cured samples, samples with water conditioning and samples with repetitive loading.

Keywords: Bituminous mix, volumetric, mix design, Cement grouted bituminous macadam.