

STRENGTHENING OF FLEXIBLE PAVEMENT THROUGH BENKELMAN BEAM DEFLECTION (BBD) TECHNIQUE

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ABSTRACT

A distressed pavement requires maintenance. Maintenance measures constitute fresh investment on the existing roads. The maintenance expenditure can be reduced through proper planning, design, construction and quality control. If the causes of possible distresses are removed, or judiciously taken care of during design stage, the expenditure due to maintenance measures on in-service roads reduces. This paper analyzes the method of flexible pavement strengthening by BBD technique. The entire methodology and parameters involved in this technique are taken care of and lastly the design aspects of pavement strengthening are also put forth. This work is an attempt to study the BBD technique fully and then deduce the useful conclusions from the study and apply in field for strengthening of in-service pavements

KEYWORDS: Benkelman beam, Corrections, Deflection, Flexible pavements, Inservice Pavements