



STATIC ANALYSIS OF CURVED CABLE STAYED BRIDGE AS PER IRC

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ABSTRACT

The Innovative bridge design discussed here is a curved cable stayed bridge as per Indian Road Congress (IRC). This work is highlighting a close technical concept between aesthetic choices and structural performance which is to justify the initial conceptual analysis. The superstructure of the bridge consists of a multi-cell concrete box girder. The single pylon of the bridge is a hollow rectangular section. The single pylon is made of high strength of concrete to provide strength and stiffness in a pylon. A linear static structural analysis will be carried out using some commercial code, including relevant parameters calculation to check as per IRC Standards.

KEY WORDS: Cable-Stayed bridge, Curved Span, Curved deck bridge, Static Analysis, Indian Road Congress (IRC).