

## **STUDY OF BASIC DESIGN OF A PRECAST SEGMENTAL BOX GIRDER BRIDGE**

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### **ABSTRACT**

Box girder bridges are being made into use at many places. Various studies have been performed so as to develop a more stable structure design by varying the shape of the bridge structure. This study is also aims at understanding the effect of changing the basic shape on the stability of the bridge. By varying the length of the over-hanging beam section and increasing the thickness of the joints, the variation in the stability has been studied. SAP 2000 software has been used to apply moving load and to study the deflections and stress contours.

**KEYWORDS:** Bridge, Box Girder Bridge, Design of Box Structure, Precast Bridge, SAP 2000