

**MODIFICATION OF STEEL RAIL BRIDGE
STRUCTURE
PORONG RIVER – SIDOARJO, EAST JAVA
WITH ARC SYSTEM**

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Porong River railway bridge is the bridge that connecting the flow of train with one lane train or one train. Bridge is skipped by the oil and car passenger cars and locomotives. This bridge is the main route linking between Sidoarjo – Pasuruan regency and otherwise.

To improve train travel then with SPT data in porong, Water elevation data, profile data streams, and data files, from the data I could take on the task of modifying the initial end of the bridge frame of steel rods into the bow frame.

Planning the bridge structure is designed it for train that pass through the bridge , that type of passenger train or locomotive. Based on The Book of Indonesia Railway Technical Standards, For Structural Steel Bridge loading scheme is set up in such a way.

For the structure using steel framing, mounting profile WF profiles, wind profiles using profile elbow tie. Laying here using roll-joints, to the structure of the bridge is no abutment, using steel piling. In planning this steel bridge structures, structural systems analyzed using the SAP 2000 with the three-dimensional model, and after learning styles in which case it should be checked for structural stability.

Keyword : Bows Frame Steel Bridge