COMPARATIVE ANALYSIS METHOD OF USING THE ERECTION GIRDER LAUNCHER AND TEMPORARY BRIDGE GIRDER IN TERM OF EXPENSES AND TIME KALI SURABAYA MOJOKERTO BRIDGE

Student : Dwi Dian Pratama
NRP : 3111.105.043
Lecture : Tri Joko Wahyu Adi, ST.MT.PhD

ABSTRACT

Along with the rapid population growth, it must be balanced with adequate transortaiton facilities in order to move from the origin to the destination faster. This paper focuses on one of the toll road Surabaya – Mojokerto that cross kali Surabaya.

Plan for bridge construction in surabaya, located in the mlirip(mojokerto) and mlirip rowo(sidoarjo) is planned to span along ±137m. Surabaya river bridge consist of three spans that consist of two aburment and two pier. Distance between A1 and p1 42.92 m, the distance between p2 and A2 42.94 m with the main structure of reinforced concrete beams and PCI girder. With the number of girders span a that had 12 pieces

Planning the construction of the bridge three is a plan of implementation method of construction (erection) for girder used, method of implementation of the construction (eration )such that the temporary bridge method and method launcher.

The calculation of the cost and time of several alternatives the most optimal result obtained for erection and launcher bridge girder work time surabaya and kali surabaya bridge is Rp.996.000.000,00 and it needs 48 days.

Keyword :: Launcher Girder, Temporary Bridge,cost and Time