ABSTRACT

The increasing number of vehicles in Indonesia now, require the addition or widening the road to compensate. The example is in the Ploso, Jombang, East Java. Ploso is a link between some of the area regions such as Mojokerto, Kediri, Babat, Nganjuk, Lamongan, Bojonegoro and others. The heavy vehicles often pass this area because it is the quickest way to the coast line. No wonder this area is very jammed due to the large volume of vehicles that exist, but are not supported by adequate road width, and then this area is separated by Brantas river, which makes the drivers have to pass a bridge to continue their journey.

In this case of study uses traffic counting survey to get the traffic volume data in around the Ploso bridge, because the survey showed DS > 0.75, then the flow of traffic in that area already crowded. Next step is the selection of the access road alignment with the multi-criteria analysis, which had previously been carried out surveys to people who are considered experts in this case to determine the weight of criteria. And then to get the best access road alignment we must accumulated the criteria and the weights. The best access road alignment will analyze with economic analysis to produce a decent alignment of access roads to be built. It also conducted an environmental impact assessment
which is expected to help the contractors in performing work Ploso new bridge construction along the access road.

**Keywords**: Feasibility Study, DS calculation, Economic Analysis, Environmental Impact Assessment, Roads Access, Ploso, Jombang.