

ABSTRAK

Kajian Konstruksi Mine Road Dari Area Penambangan ke ROM pile pada Tambang Bijih Besi PT. Sitasa Energi, Desa Pulau Layang Kecamatan Batang Mesumai Kabupaten Merangin Provinsi Jambi.
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Indonesia is a rich country in natural resources extractive minerals, one of them is iron ore. Iron ore is one source of minerals commodities. The spread of iron ore almost evenly along the island of Sumatra, there are so many projects of iron ore mining, one of them is PT. Sitasa Energi, located in Pulau Layang Village, district of Batang Mesumai, Merangin, Jambi. This companies used the open pit mining methods.

In the process of mining work in PT. Sitasa Energi, the mine road construction is an important thing that must be considered to support the smooth production. Some things to consider in the construction of the mine road is the road geometry, drainage of water runoff, Underfoot conditions, as well as safety aspects. Some things in the construction of the mine road is not match the standards. It is seen from some of the issues arising in connection with road geometry, drainage, and safety of the haul roads.

From the analysis of the data making up to do, then obtained a minimum width of haul road for two straight lanes is 8,75 m. While on the street corner having a minimum width of 11,62 m. Height difference at the top and bend curvature is 1,11 m, and the maximum slope that can be bypassed by dump truck is 17,34%. Cross slope is authorized in 18 cm, if more higher from this, it will dangerous for vehicle, but if it is too flat will cause a lot of permeation of water into the road surface.

For drainage, then it need channel with height 17,6 cm, the slope of wall are 75° , bottom of channel is $1,43^\circ$, width in the bottom channel is 27,2 cm, and the width in top channel is 36,3 cm.