

ABSTRACT

The location of the study is mining of limestone situated in PT Semen Indonesia (Persero) Tbk in Temandang, Pongpongan, District Merakurak, and Sumber Arum, District Kerek, Tuban, East Java.

Geographically mining site located at coordinates $06^{\circ}51'49,2''$ LS - $06^{\circ}53'43,8''$ LS and $111^{\circ}53'5,4''$ BT - $111^{\circ}55'41,4''$ BT. The mining Temandang quarry use open pit methods, where the mining method will leave some basins caused by mining activities. The effort to control the negative impacts of this mining is by conducting reclamation towards the land after mining of limestone.

The purpose of this study is planning reclamation of the land after mining of limestone in PT. Semen Indonesia (Persero) Tbk to run properly.

The surface area of pit Temandang is $129,900 \text{ m}^2$. Material on topsoil (top soil) provided is 32.475 m^3 . The topsoil needed for reclamation activities on area with 12.99 hectares is 4.655 m^3 . Because there is only little topsoil provided, then we have chosen the arrangement system of top soil that require only little topsoil provided, those are the system of pot/planting hole, with the number of pot 1.667 for every 1 hectares with the dimension of pot $60 \times 60 \times 60 \text{ cm}$. With a planting space of $2 \text{ m} \times 3 \text{ m}$ and the vegetation used for reforestation activities are hardwood tree or teak and mahogany. The time needed for making holes with an area of 12.99 hectares is 18 days with human labor, and the overall time required for filling activities and pot hole planting by human labor is 31 days.