

## ABSTRACT

CV Adya Utama (ADU) is a contractor firm in mining sector which operates in Desa Dompok, Kecamatan Kemalang, Kabupaten Klaten. Mining method which is applied by CV. ADU is surface mining. The excavation and transportation use mechanic tools. Target plan for sand production is 172.800 m<sup>3</sup>/year and target plan for stone production is 42.867 m<sup>3</sup>/year the project have 3 production years. The activity of sand and stone mining will cause change the mine territorial morphology, the area is a hill for the beginning with an elevation of 510-570 mdpl will change to pits area with an elevation of 500-570 mdpl for the front of mining activity.

According to PERMEN ESDM No. 7 Tahun 2014, it's declared that the ex-mined land reclamation will be in mutual accord. And on PP Klaten No 11 Tahun 2011 Tentang Rencana Tata Ruang Wilayah, the allotment of region order for Kecamatan Pemalang is horticultura plantation area and foods agriculture. In the same law which is Permen ESDM No. 7 tahun 2014, states the success of structuring ex-mined land could be considered in 3 things; Structuring land surface, Distributing top soil zone, controlling erosion and Water management.

According to the calculation, the rate of erosion dangerousness will be known before the execution done and get score of  $71.270 \frac{ton}{ha}/year$  and after land structuring the score will decrease to  $3.239 \frac{ton}{ha}/year$  with assumption that the mined land have been terasering which produce lasing field, drainage and plantation pit which will be planted variety of plants and covered on good soil.