

ABSTRACT

Sand and stone is one of the mining commodities that are needed, the rapid development of physical facilities and infrastructure causes a lot of demand to meet the needs of raw materials of development. Mount Merapi becomes the source of sand and rock carrier during eruption, Mount Merapi will release material in the form of sand and stone that can be utilized.

Based on the exploration result, it can be said that the potential of sand and stone in the study area is quite a prospect to be carried out by the company. Location IUP Exploration CV. Asmara Sena is 4.96 Ha and potentially sand and stone with market target as sand, split stone or base course. Exploration in the area is expected to know and figure out the amount of sandstone resources that are potential for mining businesses.

The exploration was conducted to find out the initial picture of sediment form with measurement using image analysis and cross section to find out the condition of sand and stone deposits in the research area in the form of designated resources with a total of 34 incisions and divided into 11 research blocks, with intercept spacing searched using estimation error, to find out the total estimation, using the mean area formula. Measurement of the deposition of mineral deposits by measuring potential river widths. From the estimation of resources using the cross section method obtained the volume of resources of $1.534.343 m^3$