

ABSTRACT

The material demand for the sandstone industry in Indonesia is estimated to be quite high, such as the need for housing development and the development of other construction sectors. Stone sand mining business is one of the efforts to meet the needs of stone sand. Resource estimation is needed to determine the quantity of sandstone resources.

This research was conducted to classify and estimate the quantity of sandstone resources in CV. Putra Dozer Jaya in Mekarjaya Village, Padakembang District, Tasikmalaya Regency, West Java Province. The estimated number of sandstone resources is obtained by processing research data on topographic maps using AutoCAD Software.

Based on the results of resource estimation using the cross section method of the Rule of Gradual Change guidelines from A-A' to W-W', it was obtained 344968,422 m³. The result of the volume method with the Rule of Nearest Point guideline from A-A' to W-W' is 355609.8 m³. By calculating resources using these two methods, there must be differences in the resulting resources. The difference is due to the different estimates depicted. Differences occur in the calculation of resource estimates between the two methods, but it should be noted that the cross section method cannot describe the basin between other sections so that the results are more accurate. The difference in resource estimates helps to find out the smallest (pessimistic) value of the calculation of the resource volume of the two guidelines.

The result with the smallest value is obtained by using the Rule of Gradual Change Guideline, which is 344968,422 m³. The result of the calculation of the cross section method with the smallest value is obtained by the Rule of Gradual Change Guideline. This difference can occur because of the calculation of sandstone resources with the cross section method of calculation. Sandstone resources in the research area are categorized as measured mineral resources based on SNI 4726-2019.

Keywords: Resources, Estimation, Cross Section Method, SNI 4726-2019.