

ABSTRACT

Kabupaten Magetan has a sand stone, most of the non rocks of the minerals industry as well as construction that spread across several districts. Pay attention to the amount of resources, the quality and benefite, there are some of the non metallic minerals and rocks that can potentially do business or development. The location of the Research Resources of sand Stone in the village of Sayutan, Parang, Magetan, East Java province.

The purpose of the research to determine the classification of the Stone Sand resources on site research, knowing of the existence of that influence deposition estimation of sand Stone, analyzing the influence of slope against the direction of the Stone Sand resource calculation on site research, as well as analyse the influence of the distance of the incision against the results of the valuation of the resource.

The calculation of estimated resources in the village of Sayutan, Parang, Magetan, East Java using a comparison some incisions with a different distance. The distance used i.e. 125 m, 100 m, 75 m, 50 m, and 25 m. Discharging some distance the incision intended to find out the calculation with the optimal result i.e. a distance which is not too close together but the tonnage obtained everything possible. As for the results of the calculation of Tonnage Resource Sand Stone from a distance of 125 m, 100 m, 75 m, 50 m, and 25 m. Results from a distance of 125 m with incision incision direction North-South has a tonnage of 12,205,804 Tons, while the incision with a West-East direction had a tonnage of sebaesar tons of 4,602,334.3. Then at a distance of 100 m with a North-South direction of the incision has a tonnage of 13,430,854.6 tons, while the incision with a West-East direction had a tonnage of sebaesar tons of 12,526,484.4. At 75 m with a North-South direction of the incision has a tonnage of 14,401,842.4 tons, while the incision direction West-East has a tonnage of 13,488,331.5 tons. At a distance of 50 m with a North-South direction of the incision has a tonnage of 15,038,983.3 Tons, while the incision direction West-East has a tonnage of 14,569,796 tons. At a distance of 25 m with a North-South direction of the incision has a tonnage of 15,282,062.3 tons, while the incision direction West-East has a tonnage of 15,033,912.1 tons.

Estimation of Sand Stone Resource in the village of Sayutan, Parang, Magetan, East Java, with an optimum result there is at a distance of 25m incision of 6,702,658.9113 m³. The more tightly the distance the incision will then generated a greater volume of assessments.