

# **Limestone Potential in Cikatomas Region and Its Role Towards Development of Southern Part of West Java, Indonesia**

**Ildrem Syafri, Murni Sulastri, Oeke Sobarin, Yunita Rossa and Puspa Khaerani (Indonesia)**

**Key words:** Engineering survey; Limestone, Potential, Cikatomas

## **SUMMARY**

Geological condition of Cikatomas and surrounding area, Cikatomas District, Tasikmalaya Regency, West Java Province has interesting geological conditions to learn. Cikatomas region has variety types of limestone lithology. Related to this geological potential, this research is conducted to find out deeply about the characteristics of limestone in Cikatomas. The result of this research could become a reference of natural potential development. In the next future, this potential will be used by the surrounding community to increase the development of Southern Part of West Java region.

Research method used in this study is divided into three parts including: studio method, field survey, and laboratory analysis. The studio method is performed through the analysis of limestone types in the study area and the determination of the limestone potential. The field survey is performed by geological mapping and taking limestone samples at several locations in the study area. Laboratory analysis is done by the petrography analysis of limestone samples to determine the characteristics of the limestone type microscopically. The approach of quantitative and qualitative is performed through data analytical.

Cikatomas region is dominated by the type of clastic limestone and calcareous sandstones lithology. Based on geological condition, this can be explained by the depositional environment of Cikatomas region in the past, which can be determined as deep-sea depositional environment, experienced with lifting up process and forming of reef-limestones lithology. Based on petrographic analysis, microscopically limestone in Cikatomas region has incision color of brownish-white, there are fragments of skeletal consisting of foraminifera, fragments of non-skeletal consisting of carbonate minerals, quartz, void, and matrix of carbonate minerals. Based on the classification (Dunham, 1962) this limestone is classified in Foraminifera Wackestone group. Through the result of

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petrographic approach, the clastic limestone potential in this region can be exploited by local people as a building material and construction.

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