

## Microfacies and Diagenetic Study of Rembang Limestone, Central Java, Indonesia

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**Abstract :** Research area is located in Pasedan District, Rembang Regency, Central Java Province. This research is being held for the purpose of microfacies and diagenetic study of carbonate rocks. The study area is dominated by deformed carbonate rocks, folded and faulted. The research method is petrographic analysis with red alizarin staining to differentiate mineral types. Microfacies types and diagenetic processes can be known from petrographic analysis of rock texture, rock structure, type of grain, and fossils. Carbonate rocks in the study area can be divided into 4 types of microfacies: Reef Microfacies (SMF 7), Shallow Water Microfacies (SMF 9), and Textural Inversion Microfacies (SMF 10). Diagenetic processes that take place in carbonate rocks are microbial micritization, compaction, neomorphism, cementation, and dissolution.

**Keywords :** diagenetic, limestone, microfacies, Rembang

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