

## **ABSTRACT**

*This final project discusses how to create mineral cluster data from the Ministry of Energy and Mineral Resources Ministry's statistical data using the K-Means algorithm. Research data can be grouped from object or research methods. The results of grouping research data can be done using research methods and research objects from time to time. The method we will use for data with problems and mineral resources. The essence of this method is the grouping of objects based on characteristics that are heard. The tools that we use in the application of data mining are Weka. The results of the study based on the results of a comprehensive analysis will produce poor, standard and good mineral quality cluster outputs in Indonesia.*

*Keywords: Geological Agency of the Ministry of Energy and Mineral Resources, Data Mining, Cluster, K-Means Algorithm, Mineral Quality*

