ABSTRACT

This project investigates each production process in Silapat Quarry which produces Aggregate rocks for construction industry. The operation problems occur from an inappropriate mining plan which leads to other problems, that is, more use of accessories, waste time for operation and increase of production cost.

Tools of Continual Improvement are used to determine the problems in the quarry and analyze the root causes. First of all, I start with studying the existing process, collecting the data and finding the problems of each process. Next, I analyze and develop to accomplish the quarry's objective. The study of the project includes interviewing the relevant persons from top to bottom line, observing the operation, collecting the data and analyzing the improvement plan.

Improving the mining plan, enhancing knowledge of workers and setting the machinery maintenance planning are the methods that are chosen to solve the problem. It can enhance productivity by increasing output and decreasing the cost and time of production.