

ABSTRACT

This research was conducted to improve the operation of the parking area for vehicle export and reduce the cost of management fee via implementation of barcode system. Barcode is the one of automated identifications which is powerful technology and applied in various fields. Barcode system could help the organization improve the operation process, reduce manual process, human error and lead time. It can reduce cost of manpower in parking area. The operation will improve accuracy and efficiency.

In this paper, all relevant data such as the current ABC Company information and operation, historical data of cost, company volume and the problem in the operation were collected and analyzed for developing a new operation process to help improve the existing process. To implement the barcode system, ABC Company has to invest in the barcode equipment and software. Not only barcode investment but ABC Company modified the parking area by installing studs bar on the ground. The Net Present Value of the returns for this project shows that the investment is valuable to the organization.

After everything has finished and applied in the operation, the researcher has compared the current operation with the new operation about the process and cost. The results of implementation of the barcode system are not only to solve the existing issue, but also to improve the vehicle export operation process. This project eliminates non-value added activities and enhances the skill of manpower. The communication inside and outside company is easier, accurate and reliable. All concerned parties have responded quickly to deal with the urgent issues. Supply chain in organization is more efficient and effective than before executing this project. After the implementation of the barcode system, the company can reduce costs, gain competitive advantage and collaborate with its partners. These are all the benefits that are significant to the company after the implementation of the barcode system.