

## ABSTRACT

Business Process Reengineering (BPR) concept is applied to redesign the transportation process of an auto parts, car company. The research was conducted as a case study using Business Process Reengineering (BPR) in order to return the transmission package from the Thai plants to the Indian supplier.

To redesign the return process of the package data including the images of the new packages, general information of returning operation, total amount of the products and packages from the Indian supplier, current total of logistic cost and labor cost, the storage area of the warehouse and total lead time of returnable process are required. Data were collected by documentary reviews, observation, and interviews.

The results of this project is aligned with the business process reengineering (BPR) idea and can be applied to process of implement is returnable module effectively. After following step by step involved in the business process reengineering (BPR) to understand and measure the existing process the total cost and the lead time of all option are compared. The minimum cost of returning packages back to India is option 3 which combines the loading operation between Somrong and Banpho plant.