ABSTRACT

This study focuses on supplier selection and evaluation based on the characteristic of spare part in the cigarette industry. Spare part is one of the MRO materials that its existence becomes one of the important factors in the supply chain. Spare part has large varieties so spare part management is needed in order to ease the controlling and managing process. Each of them has different characteristic, not all spare part can be treated equally, therefore a framework is developed in order to classify the spare part based on their characteristic and focus.

Classification has been pointed as a necessary step to deploy an efficient selection and performance evaluation process. Determining which supplier will be included in the supply chain referred to spare part's characteristic.

Spare part can be differed by its characteristic which are impact of shortages, price, demand fluctuation and demand frequency. There are 7 type of spare part and each of them has different ranking and weight supplier's criterions. Quality, consistency, flexibility, price, relationship and service are considered as the main criteria that characterize suppliers.

Keyword: supply chain, supplier selection, supplier evaluation, spare part characteristic, cigarette industry