ABSTRACT

High quality service is key to win the competition between companies, especially for the service companies. Therefore company should give something better (added value) from their competitor. This will be easier if supported by more effective and efficient company activities. One solution is by the proper supplier selection for the spare part needs of companies. Because there are many kinds of spare part with different characteristics, ideally it will need different kinds of supplier too.

This Research have a purpose to grouping the spare part and identifying the ideal supplier to be used, begin with look for correlation weight between spare part characteristics with supplier selection criteria that we already generate before. This correlation is similar with HOQ Relationship. Then from the correlation result we will know the criteria weight for supplier selection in every class. From the result we can see which supplier is the best supplier for a spare part with the specification in every class already made that we need.

According to the research result, known that generally the priority criteria for supplier selection is product quality, then there are some combination criteria which are 3 main criteria in those 16 class. From the research result also known there are some classes that have the same number priority of supplier selection criteria, even until the weight value in every criteria, therefore we got 12 class which have number priority of supplier selection criteria that are exactly different, even though there are some classes which have the same number priority of supplier selection criteria.

Keyword: Spare parts classification, Supplier selection, HOQ Relationship.