ABSTRACT

PT. Karya Kabel Taliarta is a manufacturing company which is engaged in the production process of low-voltage electric cables. So far, PT. Karya Kabel Taliarta has never made an efficiency measurement that compares and involves several suppliers at once. This raises the question whether this power cable company already has a supplier that works efficiently or not. herefore, to measure the level of efficiency between suppliers, this study used the Data Envelopment Analysis (DEA) method. DEA is a non-parametric methodology based on linear programming. Initially the DEA was developed for performance measurement, and now the DEA application has been used as a measurement in various scientific disciplines and various operational activities. In this research, there are 3 suppliers who are working with PT. Karya Kabel Taliarta in the period January 2019 - December 2019. Based on the analysis and data processing using the input-oriented DEA-CRS and VRS methods, it can be seen that each supplier is categorized as relatively efficient except for PD. SB. The supplier is considered relatively inefficient because it has an efficiency value 96,20%. The repair procedure for suppliers is carried out using the method of setting improvement targets and benchmarking analysis.

Keywords: *Efficiency, Data Envelopment Analysis, CRS, VRS, Input-Oriented, Low-Voltage Cables Manufacture*