ABSTRACT

Andrew Balango (B1031511RB4001), Supplier Selection Application Using Weighted Product Method in PT Binarthama Kharisma

Construction resources include the business of supplying materials, equipment, technology, and construction labor. Calculation of the reliability of the supply chain must be supported by accurate data on the amount of the deposit, deposit quality, location and transportation to the project, time of arrival and transit area. Nowadays many companies do the selection or selection from their suppliers. Supplier selection is the stage of the industry purchasing process that is usually done by reviewing proposals and selecting suppliers. The buying company will consider many of the attributes of the supplier and their relative importance. PT Binarthama Kharisma is one of the companies engaged in construction. There are several obstacles that must be addressed in the company including Adm. Logistics have difficulty applying several desired criteria in choosing the right and reliable supplier for the construction process. Some attributes and methods used are still not in accordance with company needs. Then there is no mobile application for construction supplier selection used at PT Binarthama Kharisma. The purpose of this study is to build a construction supplier selection application using the mobile-based Weighted Product method at PT Binarthama Kharisma. The results showed that Adm. Logistics are made easy in choosing the best construction supplier from the ranking sequence produced. Some of the criteria used in the Weighted Product method are very suitable to the needs of the company. The mobile application for construction supplier selection was successfully built using Android programming at PT Binarthama Kharisma.

Keywords: Decision Support System, Android Application, Supplier Selection, Weighted Product Method, PT Binarthama Kharisma