

## **ABSTRACT**

*The amount of investment in Karawang regency stimulate the growth of various medium local businesses. One of them is the CV. Cahaya Gemini. CV. Cahaya Gemini is a provider of transportation services and logistics to deliver products of various companies in the Karawang regency. During this CV. Cahaya Gemini still counting the cost of transportation by using conventional means. This resulted in the number of shipping costs incurred sizeable and quantity of the goods delivered are not spread evenly.*

*This study aims to determine how the application of transport models before and after using the method of Vogel Approximation Method on the CV. Cahaya Gemini. In addition, this study also aimed to determine the ratio between before and after the application of transport models using Vogel Approximation Method on the CV. Cahaya Gemini. This study uses Vogel Approximation Method. The tools used to process the data in this study is to use POM-QM software For Windows Version 4.*

*The results obtained are found optimal cost Rp. 129.705.290, -. Distribution activities will be optimized if the factory in Karawang allocate as much as 15.471 cartons to a warehouse in Jakarta, 31.750 cartons to a warehouse in Serang, and 37.850 cartons to a warehouse in Bekasi. As well, factory in Cikampek allocate 33.480 cartons to a warehouse in Singapore and 40.979 cartons to a warehouse in Jakarta.*

*The conclusion of this study is, there is a comparison of the components of the distribution of the allocation, distribution quantity and distribution costs before and after implementing transport models using the method of Vogel Approximation Method. Therefore, CV. Light Gemini can apply the method Vogel Approximation Method for managing transport costs and further research should use additional knowledge and theories from various sources to share knowledge and insights obtained in similar studies like this can be renewed.*

*Keywords: Transportation Model, Distribution Fee, Vogel Approximation Method.*