ABSTRACT

PT. Pertamina owned facilities in an effort to distribute LPG in Surabaya area today still has limitations in meeting the demand. Growth conditions demand an increasingly large and varied geographical distribution potentially makes the design of the system currently implemented Over Capacity and stockout occurs. Stockout occurrence of over capacity and will reduce the effectiveness and efficiency of the distribution system of LPG 3kg. Based on these problems, it would require a step to redesigning the 3kg LPG distribution network for the Surabaya area. The purpose of this research is to determine the strategic decisions related to the distribution system that can be applied to accommodate the increase in demand by 2020. Decisions made in this study in the form of determination of total facilities (SPPBE) to be available, the decision of facility capacity (SPPBE), determining the location of the facility as well as the coverage area of each SPPBE. The method used in this research is to use the Allocation Model and Minimum-Cost Method. The end result of this research is the design of the distribution system in the city of Surabaya LPG 3kg Total Revenue generating maximum and minimum Total Cost Transportation.

Key word : Performance Distribution System, LPG 3 Kg, Demand Growth, Distribution System Design,
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