DEVELOPING A MODEL OF REVERSE LOGISTICS WITH GOAL PROGRAMMING APPROACH FOR THE PRODUCT OF ORIGINAL EQUIPMENT MANUFACTURERS (OEMs)

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ABSTRACT

The use of retailer outlet is the best option is to reduce the cost of collection and promotion used to provide the desired product. The main objective of this study was to develop an integrated model of reverse logistics of collection stages with service retailer outlets, processes disassembly to maximum profit gained by using Goal Programming to complete the three previous major study, namely: Kanchan and Chowdhurry (2012), Vadde et al (2011) and Mutha and Pokharel (2009). This study conducted an analysis of some of the decisions relating to trade off management system to maximize revenue from the collection of unused product reverse logistics services through Recovery Service Providers (RSP).

Given this research, expected benefits to be gained for the inventory manager is developing a demand forecasting of the products used in the future, where consumers are more and more will provide the potential for collection of raw materials. Numerical experiments performed to determine the characteristics and behavior of the proposed model. The results showed that the Goal Programming Model that includes four key priorities of manufacturing firms can be applied to products OEMSs in reverse logistics systems, where the retailer as a provider of collection services. Sensitivity analysis provides a variety of possible scenarios to consider in optimizing the processing cost for remanufactured components and reusable as-is generated.

Keywords: reverse logistics, recovery service providers, disassembly, collection, sort-test, processing, output, outcome, goal programming
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