World Academy of Science, Engineering and Technology
International Journal of Economics and Management Engineering
Vol:11, No:11, 2017

Inventory Management to Minimize Storage Costs and Improve Delivery Time in a Pharmaceutical Industry

Authors : Israel Becerril Rosales, Manuel González De La Rosa, Gerardo Villa Sánchez

Abstract : In this work, the effects that produce not having a good inventory management is analyzed, in addition of the way that how it affects the storage costs. The research began conducting the historical analysis about stored products, its storage capacity, and distribution. The results were not optimal, since in all its raw materials (RM) have overstocking, the warehouse capacity is only used by 61%, does not have a specific place for each of its RM, causing that the delivery times increases and makes difficult a cyclical inventory. These shortcomings allowed to view and select as design alternatives the inventory ABC, so that depending on the consumption of each RM would be redistributed by using economic amount requested. Also, the Delphi method to ensure the practical applicability of the proposed tool was used, taking in account comments and suggestions of the involved experts, as well as the compliance of NOM-059-SSA1-2015 good manufacturing practices of drug. With the actions implemented, the utilization rate drops of 61% to 32% capacity, it shows that the warehouse was not designed properly due to there is not an industrial engineering area.

Keywords : lead time, improve delivery, storage costs, inventory management
Conference Title : ICEM 2017 : International Conference on Engineering Management
Conference Location : Havana, Cuba
Conference Dates : November 23-24, 2017

Open Science Index, Economics and Management Engineering Vol:11, No:11, 2017 publications.waset.org/abstracts/76051/pdf