

## **An Approach for Determining and Reducing Vehicle Turnaround Time for Outbound Logistics by Using Critical Path Method**

**Authors :** Prajakta M. Wazat, D. N. Raut

**Abstract :** The study consists of a fast moving consumer goods (FMCG) beverage company wherein a portion of the supply chain which deals with outbound logistics is taken for improvement in order to reduce its logistics cost by using critical path method (CPM) method. Logistics is a major portion of the supply chain where customers are not willing to pay as it adds cost to product without adding value. In this study, it is necessary to ensure that products are delivered to clients at the right time while preserving high-quality standards from the beginning to the end of the supply chain. CPM is a logical sequencing method where in the most efficient route is achieved by arranging the series of events. CPM enables to identify a critical factor in order to minimize the delays and interruption by providing a feasible solution.

**Keywords :** FMCG, supply chain, outbound logistics, vehicle turnaround time, critical path method, cost reduction

**Conference Title :** ICIEOM 2019 : International Conference on Industrial Engineering and Operations Management

**Conference Location :** Bangkok, Thailand

**Conference Dates :** January 17-18, 2019