

# A Green Integrated Inventory Model for a Three-Tier Supply Chain of an Agricultural Product

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## ABSTRACT

Green supply chain management coordinates environment issues into the supply chain business. It has been popular to both academicians and practitioners. Smooth supply of processed agricultural products is essential for human beings and pets. In some models, excess raw materials, byproducts and defected products are kept neglected in producing and marketing finished products. Here, we have presented a three-tier green supply chain model for an agricultural product where byproducts are used for some purposes. Solution procedure of the model is derived. We have demonstrated the model using two numerical example problems.

### Key words:

Agricultural product, green supply chain, integrated inventory, lot size, supply chain, byproduct

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## INTRODUCTION

Controlling of environmental pollution is a burning issue in the universe. Usually, a green supply chain (SC) uses the mechanism to reduce environmental pollution during its functioning. So, the topic has got the attention of researchers worldwide. We are also interested of modeling a green supply chain problem with coordinated inventory policy. Current competitive market imposes companies to integrate with their upstream and downstream players for establishing an improved SC to minimize the management cost.

They all supply finished products to customers with reasonable prices (e.g., Gunasekaran et al. 2008; Ben-Daya and Al-Nassar 2008; Moncayo-Martínez and Zhang 2013; Islam and Hoque 2014a; Hellion et al. 2015; Islam and Hoque 2018). Modeling on integrated cost minimization using joint economic lot sizing (JELS) policy has received

# An Integrated Inventory Model For Three Tier Supply Chain

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