

Author's Accepted Manuscript

Closed-Loop Supply Chain Configuration for New and Reconditioned Products: An Integrated Optimization Model

Jighyasu Gaur, Mehdi Amini, A.K. Rao



PII: S0305-0483(16)00014-1
DOI: <http://dx.doi.org/10.1016/j.omega.2015.11.008>
Reference: OME1646

To appear in: *Omega*

Received date: 19 December 2014
Revised date: 27 November 2015
Accepted date: 30 November 2015

Cite this article as: Jighyasu Gaur, Mehdi Amini and A.K. Rao, Closed-Loop Supply Chain Configuration for New and Reconditioned Products: An Integrated Optimization Model, *Omega*, <http://dx.doi.org/10.1016/j.omega.2015.11.008>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

Article Title Page

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An Integrated Optimization Model

Author Details

1. Jighyasu Gaur, Ph.D.
Department of Operations and IT
ICFAI Business School (IBS) Hyderabad
ICFAI Foundation for Higher Education (IFHE) University
Shankerpally Road, Hyderabad, A.P. 501203, India
jgaur.ibs@gmail.com; 91-9010722557
2. Mehdi Amini, Ph. D.
Department of Marketing and Supply Chain Management
Fogelman College of Business & Economics
The University of Memphis
Memphis, TN 38139, USA
mamini@memphis.edu; 901/678-2479
3. A. K. Rao, Ph.D.
Department of Operations and IT
ICFAI Business School (IBS) Hyderabad
ICFAI Foundation for Higher Education (IFHE) University
Shankerpally Road, Hyderabad, A.P. 501203, India
raoarza@yahoo.com; 91-9866015561

Abstract

Closed-Loop Supply Chain Management (CLSCM) is considered as a strategic response to the call for corporate sustainability while further expanding the scope of value creation to include product reconstruction. The Closed-Loop Supply Chain (CLSC) performance is directly related to the CLSC network design. The CLSC network design, with long-term and strategic connotations, involves selection of an integrated network of partner organizations to be engaged on one hand in the forward supply chain processes relevant to families of existing and new products and also involved in reverse supply chain activities relevant to reconstruction of the returned products. At the tactical level, Closed-Loop Supply Chain Configuration (CLSCC) attempts to address issues pertinent to launch of a new product and its reconstruction. The CLSC

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