LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW* KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel)	: Joint Decision on Inte	grated Supllier S	Selection and Stoc	ck Control of Invento	ry System
Nama/Jumlah Penulis	: Widowati , Sutrisno, I	R. Heru Tjahjana	/ 3 orang		
Status Pengusul	: penulis ke- 1				
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	b. Nomor ISSN	: 2	2050-7399 (Online	e), 2051-3771 (Print)	
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Semarang, April 2020 Reviewer 1

22,78

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21,6

22,18

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Judul Jurnal Ilmiah (Artikel)	:	Joint Decisi	ion on Integrated	Supllie	Selection	and Stock Contr	ol of Inventory S	ystem
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and Discussion (IMRaD), Conclusion, Acknowledgement dan didukung dengan referensi yang sesuai.

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Lingkup bahasan dari artikel ini adalah bidang matematika terapan, khususnya pada bidang pemodelan matematika. Dalam artikel ini dibahas dengan baik tentang bagaimana menyelesaikan permasalahan penentuan strategi optimal pemilihan pemasok yang terintegrasi dengan kontrol stok multiproduk dari sistem persediaan yang mempertimbangkan diskon pembelian. Model matematika diselesaikan menggunakan metode pemrograman kuadrat integer campuran dengan piecewise fungsi objektif. Relevansi hasil terkait dengan kebijakan volume produk optimal yang dibeli terhadap pemilihan pemasok dan tingkat persediaan / stok.

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<u>Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinil dengan aspek aplikasi yang penting</u> Sumber gagasan penulis untuk artikel ini sangat banyak, komprehensif dan update, yang lebih sepuluh tahun terakhir hanya 2 paper dari 28 sumber yang dirujuk. Metodologinya baik dan tertulis terstruktur.

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Nama/Jumlah Penulis:Widowati , Sutrisno, R. Heru Tjahjana/ 3 orangStatus Pengusul:penulis ke- 1Identitas Jurnal Ilmiah:a. Nama Jurnal:International Journal of Supply Chain ManagementManagementb. Nomor ISSN:2050-7399 (Online), 2051-3771 (Print)c. Volume, nomor, bulan tahun:Vol 6, No 4 (2017)d. Penerbit:ExcelingTech Publisherse. DOI artikel (jika ada): https://doi.org/10.1016/j.proenv.2015.01.0 f. Alamat web jurnal: https://doi.org/10.1016/j.proenv.2015.01.0 g. Terindeks di Scopus:Scimagojr dan Scopus, SJR (2017) 0.206 Q3					
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Quantitative Estimate of CO₂ Emission Reduction from Reuse of Automobile Parts in Japan

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Abstract-In general, reusing automobile parts reduces not only the cost of replacing the failed parts but also the environmental load of manufacturing new parts. However, these effects have not yet been quantified. The present study focuses on determining the emitted CO₂ during production and quantitatively evaluating its reduction by the reuse of automobile parts. First, CO₂ emissions are calculated during the reused parts production process at the factory site. Thirty-nine automobiles from 27 models prepared in Japan are examined to measure the amount of CO₂ emitted in the production of new parts. Furthermore, the CO₂ emission reduction effect for different automobile models is estimated through multiple regression analysis. The CO₂ emissions are assumed to be the objective variable, whereas the explanatory variables are derived from the data provided in the automobile inspection certificates. The presented quantitative estimate of CO2 emission reduction owing to the exploitation of reused parts is expected to promote policies for further reducing CO₂ emissions and arouse public awareness regarding the benefits of recycling automobile parts.

Keywords— CO_2 emissions, reuse, life-cycle assessment, multiple regression analysis, automobile

1. Introduction

As world population increases, more natural resources are being consumed to satisfy customer demand, leading to more generated waste [1]. At present, approximately 3.5 million automobiles are discarded every year in Japan [2]. Therefore, when all of the discarded automobiles are simply scrapped, they result in about 3.5 million tons of annual waste, which corresponds to approximately 8% of the total volume of waste per year in Japan (45 million tons) [3]. From the viewpoint of environmental issues such as the depletion of natural resources and reduction of CO₂ emissions, closed-loop product supply chains are essential for achieving a sustainable society [4]. Approaches to implement a green supply chain include efforts to minimize the negative impact on the environment [5]. Promotion of the three Rs, i.e., "reduce, reuse, and recycle," is one of the approaches for realizing a sustainable society. Recycling and reusing involve the recovery of materials from the scrap of end-of-life products [6].

A 2005 legislation, which governs automobile recycling in Japan [7], has imposed fees on the purchasers of automobiles to attempt enforcing the recycling of end-of-life vehicles by using their parts or resources to repair other vehicles. The

International Journal of Supply Chain Management IJSCM, ISSN: 2050-7399 (Online), 2051-3771 (Print) Copyright © ExcelingTech Pub, UK (http://excelingtech.co.uk/)

Achieving Optimal Safety Inventory Levels for Oil Companies using the CONWIP Approach

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Abstract— Oil Companies are faced with many operational challenges as it relates to key process functions within their selected manufacturing strategy. These challenges include: high safety stock levels, long lead times, inefficient floor utilization and production planning in regards to bulk/pack raw material receipt, blending, and packaging. The goal of this research study is to address the challenge of high stock levels of lubricant products safety manufactured by oil companies, and to conduct a value stream map (VSM) exercise to frame near term and future state opportunities to optimize cost structures and operational excellence parameters. Based on the analysis of the current VSM for a specified oil company from a lean supply chain perspective, we apply the CONWIP (CONstant Work In Progress) approach to optimize the safety inventory levels, which successfully decreases the costs associated with both raw material and finished goods inventory. In particular, a 3.1 million dollar reduction in finished goods inventory and a 1.4 million dollar reduction in raw material inventory were achieved for a large oil company through implementation of the CONWIP approach. The results of this study indicate this pull-oriented production and inventory control system can certainly benefit additional oil manufacturing companies and help them achieve significant safety inventory cost savings.

Keywords - Inventory, CONWIP, Kanban, Oil Industry

1. Introduction

Manufacturing plants in different industries, all around the world strive to improve their manufacturing operations, to gain and maintain competitive advantages through product quality, waste and cost management and most importantly, being able to respond to changes in customer demand. Traditional production systems often experience excess inventory, higher WIP levels, and longer lead time from order to delivery time. Just-in-time production responds better to changing customer demands, because it ensures producing the right products at the right time and in the right quantity. To achieve this, engineers in different manufacturing facilities are trying to achieve a lean manufacturing system, which is a systematic method for eliminating waste. A lean manufacturing system is one that meets high throughput or service demands with a very low level of inventory.

Different approaches have been implemented in different manufacturing industries to control the lean manufacturing systems. This research will focus on the Kanban and CONWIP approaches, both of which have been studied and implemented separately and also in a hybrid way. The Kanban control uses the levels of buffer inventories in the system to regulate production. When a buffer reaches its preset maximum level, the upstream machine is told to stop producing that part type. The Kanban control ensures that parts are not made except in response to demand.

CONWIP stands for Constant Work-In-Process, and designates a control strategy that limits the total number of parts allowed into the system at the same time. Once the parts are released, they are processed as quickly as possible until they wind up in the last buffer as finished goods. The CONWIP system is different from Kanban in some ways, even though they are both identified as a "pull" system and respond to actual demand. But unlike Kanban, any part released to the system will move to finished goods, leaving all buffers in the system empty. New parts will not be released if the finished goods buffer is full.

Several studies have researched the implementation of the Kanban and CONWIP systems in different manufacturing settings and have identified some of the advantages, including reduction in product flow time, reduction in Work-

The Environmental Perspectives of Apple Fruit Supply Chain Management in Chitral, Northern Pakistan

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Abstract- With increasing population the demand for fresh fruits is on the rise in Pakistan. Because of perishing nature and short shelf life, fruits require proper and effective supply chain management (SCM) for securing them to be wasted. Fruits of Chitral, Northern Area of Pakistan face supply chain (SC) issues and challenges. The main purpose is to conduct a detailed insight of the present apple fruit SCM system in Chitral for identifying the related environmental perspective of apple. That small subsistence farming should be view as a business. As compare to the producers' income with others intermediaries, (27% to 73%) it is significantly lower. Focus should be given that the distribution of the marketing margin across the players can be measured fairly. The anticipated research work is exploratory in nature using secondary data, undertakes a meticulous review of basic and up to date literature available and tried to explain the factors affect the supply chain of Apple Fruit sector in Chitral, Northern Area of Pakistan. Thus, the purpose of this study is to develop a research framework that improves understanding of SCM, stimulates, and facilitates researchers to theoretical and empirical undertake both investigation on the critical constructs of SCM, and the exploration of their impacts on supply chain performance. This is the first study to examine the environmental perspectives of apple fruit SCM in Chitral, northern Pakistan. This study could provide a lesson for many developing countries.

Keywords- Supply Chain (SC), Supply Chain Management (SCM), Constraint, Apple Fruit, Cold Chain, Pakistan

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1. Introduction

Apple is a sign of health and attractiveness. Apple has worldwide growing and consuming fruit. Apple is a highly nutritive fruit having necessary food elements such as carbohydrates 14.9% sugar 11%, fat 0.4%, protein 0.3%, and in a balanced condition vitamins A, B & C. After citrus and banana, it position third in consumption and is approximately available in every season [5].

Commercially worldwide, about 75 billion tonnes of Apples produced in 2012. Out of these 10% are traded internationally in their fresh state. In 2012, there was a quantity of 8.2 million tonnes with a net value of \$ 8 billion. China is the largest Apple producer, produced 37 million tonnes, followed by United States of America (USA) (4.1), Turkey (2.9), Poland (2.9), India (2.2), Italy (2.4) and France (1.9) [5].

1.1 World Fresh Apple Fruit Forecast

Apple fruit production in year 2017 worldwide are forecasted to go up 1.2 million metric tonnes to 77.6 million metric tonnes as Chile recovers and China continues its increasing trend. Global trade forecast up to 6.6 million tonnes as higher exports for Chile, China, and the US [31].

China's production is expected to go up about 900,000 tonnes to 43.5 million tonnes, due to cultivation of more trees and recovering from weather related losses. EU's production forecasted is to decrease faintly to 12.6 million tonnes as considerable weather-related losses in Central and East European especially in Poland.

The Impact of SCRM strategies on supply chain resilience: A quantitative study in the Moroccan manufacturing industry

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Abstract— Both Supply Chain Risk Management (SCRM) and Supply Chain Resilience (SCRES) are emerging topics in the field of SCM which require more empirical studies. Many authors have tried to explore the link between the main supply chain risk mitigation strategies and SCRES. Through a quantitative study conducted in the Moroccan manufacturing industry context, this paper aims to shed light on the impact of flexibility, redundancy and collaboration on SCRES. Data was gathered through a questionnaire and analyzed using exploratory then confirmatory factor analysis using PLS-SEM. Findings show that redundancy practices have no significant impact on SCRES. On the contrary, increased flexibility and improved collaboration are considered to be the key factors to enhance the resilience of industrial supply chains.

Keywords—Supply chain risk mitigation strategies, supply chain resilience, manufacturing industry, PLS-SEM.

1. Introduction

Evolving in changing and turbulent environments; modern complex and global supply chains; are becoming more vulnerable than any time. The members of those structures are facing an increasing number of risks originating from different sources and threatening the supply chain performance outcomes both in the short-term and in the long-term because of their unpredictability and the severity of their impact. Thus, the aim of modern supply chain risk management (SCRM) is to allow supply chains to anticipate threats; respond to them quickly and cost effectively and recover to an equilibrium state after being disturbed. This implies the development of the resilience capability. Although the topic of supply chain resilience (SCRES) has been widely studied recently, the majority of researches have focused on defining the concept, highlighting its importance, or identifying its main characteristics. Therefore, there is a poor understanding of antecedents and outcomes of SCRES

International Journal of Supply Chain Management IJSCM, ISSN: 2050-7399 (Online), 2051-3771 (Print) Copyright © ExcelingTech Pub, UK (http://excelingtech.co.uk/) [1]. Moreover; it has been argued that the SCRES literature lacks also theoretical justification for the established frameworks and models. In order to fill these gaps, we aim through this survey based study to explore the way SCRM strategies implemented by companies could enhance SCRES. Thus, after a brief summary of literature we will present our conceptual model and hypotheses, and then expose the methodology and the results of the research.

2. Theoretical background

1.1. Supply chain risks

The expression SCR is used to refer to a negative deviation from the expected value of performance measures which results in undesirable impacts for the firm [2]. From all works that tried to classify the risk sources (e.g. [3]-[4]), the multi-level classification of [5] has received more attention. In this classification, the supply chain risk sources are presented in three main levels which are environmental risk sources, network-related risk sources and organizational risk sources. Several risk drivers are discussed in the literature; the major are the focus on efficiency (rather than effectiveness), the trend to globalization of the supply chains, to focused factories and to outsourcing, the lean management practices, etc. (e.g. [5]-[6]-[7]). The SCR could have a severe impact on supply chain performance indicators; it could lead to financial consequences, reputation damage and health and safety concerns [5].

1.2. Supply chain risk management

Since a long time, companies have widely deployed risk analysis techniques to refine their decision making process. However, the real challenge lies in extending this activity to all partners involved in the supply chains. As the vulnerability of the latters increases during last decades, supply chain risk management (SCRM) has received a growing interest from the community of researchers [8]. This activity leads the members of the

Supply-Chain Management Capabilities Practices in Industrial Organization in Republic of Yemen

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Abstract-Supply chain management play major role in performing manufacturing tasks inside and strength collaboration among suppliers and customers. In this paper, the main aims is to examine the level of Supply Chain Management Capabilities (SCMC) practicing in manufacturing in Yemen. To achieve this objective, geographical clustered sample was employed, Thirty nine manufacturing were surveyed in five governorates, top and middle managers were asked to answer the questionnaire. To measure the level of SCMC practice, descriptive and standard deviation employed. The findings show high level of SCMC practice in Yemen's manufacturing is high and supported with consistency in deviation scores.

Keywords- Supply chain management Capabilities, Inbound Transportation, Material Warehousing, Inventory Control- Inbound, Production Support, Packaging, Finished Goods Warehousing, Inventory Control- Outputs, Outbound Transportation, Spanning Capabilities, Purchasing, Customer Order Processing, Strategy Development,, Manufacturing, Yemen, Field Study.

1. Introduction

To ensure continuous competitiveness, organizations must acknowledge the importance of supply chain practices that not only enhance their own performances, but also it can create values through the way of making optimal customer satisfaction and helping to improve the overall performance of a business significantly [1].

International Journal of Supply Chain Management IJSCM, ISSN: 2050-7399 (Online), 2051-3771 (Print) Copyright©ExcelingTech Pub,UK (http://excelingtech.co.uk/) Ref. [2] Justified that supply chain management (SCM) is a complex serving to be an important determinant of the success or failure of any manufacturing enterprise.

Organizations seek for competitive capabilities that make them exceed customers' expectations and improve both the market and financial performance [3]-[4]. Despite the significant role played by certain supply chain activities (e.g. transportation and warehousing) in cost containment, supply chain management (SCM) was an aspect long overlooked as a potential area for achieving sustainable competitive advantage [4]. Study's aim is to test the supply chain management capabilities-SCMC practices in manufacturing companies in Yemen empirically, as these manufacturing companies are seeking to secure the competitive position and organizational performance improvement.

However, there is a role shift of SCM from an emphasis on passive cost control, to a proactive role in shaping managers to having recognize that building effective supply chains opens doors of opportunities to generate sustainable competitive advantage [5]-[6]. The positive impact of SCM is through these qualitiesevident product availability, efficient order to delivery cycle time, reasonable costs, and good customer service. The advantages are sustainable because success necessitates the merging of diverse and sometimes conflicting groups within the organization and between organizations towards achieving common goals.