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SUPPLY CHAIN MANAGEMENT PRACTICES AND PERFORMANCE OF TEXTILE AND APPAREL FIRMS IN MALAYSIA

KUMARAN MUNIANDY

UNIVERSITI UTARA MALAYSIA

2017
SUPPLY CHAIN MANAGEMENT PRACTICES AND PERFORMANCE
OF TEXTILE AND APPAREL FIRMS IN MALAYSIA

BY:
KUMARAN MUNIANDY
(MATRIC: 815302)

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Universiti Utara Malaysia
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(Management)
PERAKUAN KERJA KERTAS PENYELIDIKAN
(Certification of Research Paper)

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by the research paper).

Nama Penyelia Pertama
(Name of 1st Supervisor) : PROF. DR. MOHD. KHAIRUDDIN BIN HASHIM

Tanda tangan
(Signature) :

Tarikh
(Date) : 13 JUN 2017
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ABSTRACT

Supply Chain Management (SCM) plays a significant role in determining the success of manufacturing companies. Despite the relevance and applicability of SCM to manufacturing firms, the review of the previous research reveals that there is limited research that attempted to investigate the effect of SCM practices on the performance of manufacturing companies, particularly among the textile and apparel companies in Malaysia. As a result, there is not only lack of information but also little knowledge concerning SCM practices and its effect on the performance of textile and apparel companies in the country. This study initiates an attempt to address this limitation by examining the relationship between SCM practices and the performance of textile and apparel firms in Malaysia. By using structured questionnaire, the data for the study was collected from 100 firms operating in the textile and apparel industry. The results of the analysis of the data indicate that SCM practices such as customer relationship, strategic supplier partnership, and strategic outsourcing adopted by the textiles firms are significantly associated to their performance.

Keywords: supply chain management practice, customer relationship, strategic supplier partnership, strategic outsourcing, and organizational performance.
ABSTRAK

Pengurusan rantaian bekalan memainkan peranan penting dalam menentukan kejayaan sesebuah syarikat pembuatan. Walaupun pengurusan rantaian relevan dan sesuai kepada firma-firma pembuatan, kajian kesusasteraan mendedahkan bahawa terdapat penyelidikan terhad yang mengkaji hubungan antara amalan pengurusan rantaian bekalan dengan prestasi firma perkilangan, terutamanya di syarikat tekstil dan pakaian di Malaysia. Oleh yang demikian terdapat bukan sahaja kekurangan maklumat tetapi juga pengetahuan yang sedikit mengenai amalan pengurusan rantaian bekalan dan hubungannya dengan prestasi syarikat tekstil dan pakaian di Negara ini. Kajian ini merupakan satu usaha untuk mengatasi had tersebut dengan mengkaji hubungan antara amalan pengurusan rantaian bekalan dengan prestasi syarikat tekstil dan pakaian di Malaysia. Dengan menggunakan soal selidik berstruktur, data untuk kajian ini telah dikumpulkan daripada 100 firma yang beroperasi dalam industry tekstil dan pakaian. Hasil analisis data menunjukkan bahawa amalan pengurusan rantaian bekalan seperti perhubungan pelanggan, perkongsian pembekal strategik, dan penyumberan luar strategik yang diguna pakai oleh syarikat tekstil dan pakaian mempunyai hubungkait yang signifikan berkaitan dengan prestasi syarikat mereka.

Kata Kunci: amalan pengurusan rantaian bekalan, perhubungan pelanggan, perkongsian strategic pembekal, penyumberan luar strategik, dan prestasi organisasi.
ACKNOWLEDGEMENT

Thank God for His grace, I am able to finish my study within the required time. This thesis owes its existence to the help, support and inspiration of several people. Firstly, I would like to express my sincere and deepest appreciation to Prof. Dr. Mohd. Khairuddin Bin Hashim for his guidance, knowledge and support during my research project. His support and inspiring suggestions have been precious for the development of this thesis. My deepest gratitude goes to my friend, Cik Siti Hanis Jamail for her unconditional support throughout my studies in Universiti Utara Malaysia. Special thanks to my friend Dr. Sami RM Mussalam for his invaluable support and guidance. I am also very grateful to all the people I have met along the way who have contributed to my research. In particular, my friends in Universiti Utara Malaysia as well as those who have been very helpful, supportive, and caring during the duration of the research project. To my respondents, my sincere appreciation for taking the time and the effort to participate in this research and without your participation, this research would not have been completed. Finally, I would like to thank everyone and express my apology for those I could not mention here. Thank you again for all your help.
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LIST OF ABBREVIATIONS

CR         Customer Relationship
DSAM       Direct Selling Association Malaysia
FMM        Federation of Malaysian Manufacturers
IBBM       Institute Bank-Bank Malaysia
MATRADE    Malaysian External Trade Development Corporation
MGMA       Malaysian Garment Manufacturers Association
MIDA       Malaysian Investment Development Authority
MKMA       Malaysian Knitting Manufacturers Association
MOF        Ministry of Finance
MTMA       Malaysian Textile Manufacturers Association
MQA        Malaysian Qualifications Agency
OP         Organizational Performance
ROA        Return on Assets
ROI        Return on Investments
SCM        Supply Chain Management
SCMP       Supply Chain Management Practices
SME CORP.  Small and Medium Enterprises Corporation
SPSS       Statistical Package for Social Science
SO         Strategic Outsourcing
SSM        Suruhanjaya Syarikat Malaysia
SSP        Strategic Supplier Partnership
CHAPTER ONE
INTRODUCTION

1.1 Introduction

The textile and apparel industry plays a significant role in the Malaysian economy. According to the Malaysian Investment Development Authority (MIDA), the textile and apparel industry is one of the main contributors to the manufacturing sector in Malaysia. The Department of Statistic Malaysia reported that in 2011, the exports from the textile and apparel firms were valued at RM10.81 billion and they contributed about 1.7% of the total growth experienced by the manufacturing sector in Malaysia.

The textile and apparel industry is considered important to the manufacturing sector in Malaysia. Despite the importance of the textile and apparel industry, the literature indicates that as an area of study, firms in this particular industry have not received much research emphasis. More specifically, the review of literature reveals not only limited studies have investigated textile and apparel firms but also research in this area seems to be neglected as well. As a result, there is not much information about the nature of textile and apparel firms as well as how these firms are being managed in the Malaysian context.

In view of the gaps in research and information, this study attempted to examine textile and apparel firms from the SCM perspective. More precisely, the study represents an effort to investigate the relationship between SCM practices and performance of textile and apparel firms in Malaysia.
The contents of the thesis is for internal user only
REFERENCES


study in the Malaysia service industry. *International Journal Modelling in Operations Management, I*(1), 84-106.


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Dear Sir/Madam,

This survey seeks to explore SUPPLY CHAIN MANAGEMENT PRACTICES AND PERFORMANCE OF TEXTILE AND APPAREL FIRMS IN MALAYSIA. The information obtained from this survey is important for me to meet the objective of the research in fulfilling the requirement for Master of Science Management (MSc.) of University Utara Malaysia (UUM). This survey will take approximately 10 minutes to be completed.

Please do not disclose your name or contact details on the questionnaire. It will remain anonymous. Your information will be treated strictly confidential and used only for statistical analysis and academic purposes. Your honesty and sincere answers to the questions asked are very much appreciated.

I sincerely thank you for your participation and cooperation in this study.

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Master of Science (Management), (M.sc)
University Utara Malaysia, UUM
Tel: 6012-5707408
Email: kumaran@aimst.edu.my
SECTION A

Kindly tick (✓) the appropriate answer.

1. What is your gender?
   - [ ] Male
   - [ ] Female

2. What is your age?
   - [ ] Below 20
   - [ ] 20-29
   - [ ] 30-39
   - [ ] 40-49
   - [ ] 50 and above

3. Race
   - [ ] Malay
   - [ ] Indian
   - [ ] Chinese
   - [ ] Others

4. Marital Status
   - [ ] Single
   - [ ] Married
   - [ ] Divorce

5. Position in Company
   - [ ] CEO / President
   - [ ] President
   - [ ] Director
   - [ ] Manager
   - [ ] Others (lain – lain)……………………………..(Please state)

6. Highest Academic Level
   - [ ] Bachelor Degree
   - [ ] Master Degree
   - [ ] STPM
   - [ ] Diploma
7. Total years of working experience

- [ ] 1 – 5 years
- [ ] 6 – 10 years
- [ ] 11- 15 years
- [ ] > 15 years

8. Length of service at your company

- [ ] Less than 1 year
- [ ] 1 - 2 years
- [ ] 3 - 4 years
- [ ] 4 - 6 years
- [ ] >6 years

9. Number of employees in your company?

- [ ] 100 - 250
- [ ] 251 – 500
- [ ] 501 – 1000
- [ ] over 1000

10. What is your legal form of your company? (Circle one) 1 2 3 4 5

- [ ] Sole proprietorship
- [ ] Partnership
- [ ] Private limited company
- [ ] Public limited company
- [ ] Others (specify)__________
11. Indicate the association/s that your company is registered to:

- [ ] Malaysian External Trade Development Corporation (MATRADE)
- [ ] Malaysian Textile Manufacturers Association (MTMA)
- [ ] Malaysian Knitting Manufacturers Association (MKMA)
- [ ] Malaysian Garment Manufacturers Association (MGMA)
- [ ] Small and Medium Enterprises Corporation (SMEs Corp. Malaysia)
- [ ] Federation of Malaysian Manufacturers (FMM)
- [ ] Others (lain – lain) ………… (Please state)

12. What is the size of your company?

- [ ] Micro
- [ ] Medium
- [ ] Small
- [ ] Large

13. Annual sales turnover (RM) in 2016:

- [ ] Below RM300,000
- [ ] Within RM300,000 to RM15 Million
- [ ] Within RM15 Million to RM 50 Million
- [ ] More than RM50 million

14. What is the supply chain position of your company?

- [ ] Upstream (closer to raw material)
- [ ] Midstream
- [ ] Downstream (closer to consumers)
- [ ] All the above
15. How many suppliers do your company have?

- [ ] < 5
- [ ] 6-19
- [ ] 20-99
- [ ] > 100

16. To what extent does your company emphasize on supply chain management?

- [ ] Not at all
- [ ] A little
- [ ] Very much
SECTION B

Organizational performance refers to the extent an organization is able to achieve its market-oriented as well as financial objectives. By using the following scale, rate the performance of your company for the past five years.

Scale: 1 = Significant decrease, 2 = Decrease, 3 = Remain the same, 4 = Increase, 5 = Significant increase.

<table>
<thead>
<tr>
<th>STATEMENT</th>
<th>SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Sales</td>
<td></td>
</tr>
<tr>
<td>2. Growth in sales</td>
<td></td>
</tr>
<tr>
<td>3. Return on investment (ROI)</td>
<td></td>
</tr>
<tr>
<td>5. Market share</td>
<td></td>
</tr>
<tr>
<td>6. Growth in market share</td>
<td></td>
</tr>
<tr>
<td>7. Profit margin</td>
<td></td>
</tr>
<tr>
<td>8. Overall competitive position.</td>
<td></td>
</tr>
<tr>
<td>9. Deliver dependability (on-time delivery, order fill rate, frequency of delivery, and delivery speed) performance</td>
<td></td>
</tr>
<tr>
<td>10. Cost saving</td>
<td></td>
</tr>
<tr>
<td>11. Product and service quality</td>
<td></td>
</tr>
<tr>
<td>12. Forecasting accuracy</td>
<td></td>
</tr>
<tr>
<td>13. Reduced inventory level</td>
<td></td>
</tr>
<tr>
<td>14. Flexibility (firm’s ability to adapt to changes in the businessenvironment)</td>
<td></td>
</tr>
<tr>
<td>15. Return on assets (ROA)</td>
<td></td>
</tr>
<tr>
<td>16. Customer satisfaction</td>
<td></td>
</tr>
</tbody>
</table>
**SECTION C**

The following statements explain the customer relationships emphasized in supply chain management. By using the following scale, please indicate your level of agreement with each of the following statements.

<table>
<thead>
<tr>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STATEMENT</th>
<th>SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. We frequently interact with customers to set reliability, responsiveness, and other standards for us.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>2. We frequently measure and evaluate customer satisfaction.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>3. We frequently determine future customer expectations.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>4. We facilitate customers’ ability to seek assistance from us.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>5. We periodically evaluate the importance of our relationship with our customers.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>6. Flexibility towards variety of demands from customers (product mix, volume and delivery)</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>7. Commitment to improve the management of everything that customers suggest</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>8. We share a sense of fair play with our customers</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>9. We have frequent follow-up with its customers for quality/service feedback</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>10. We frequently evaluate the formal and informal complaints of its customers</td>
<td>1 2 3 4 5</td>
</tr>
</tbody>
</table>
**SECTION D**

To what extent do you agree with the following statements describing the strategic supplier relationships in your company’s supply chain management? Kindly use the following scale.

<table>
<thead>
<tr>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STATEMENT</th>
<th>SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. We consider quality as our number one criterion in selecting suppliers.</td>
<td></td>
</tr>
<tr>
<td>2. We regularly solve problems jointly with our suppliers.</td>
<td></td>
</tr>
<tr>
<td>3. We have helped our suppliers to improve their product quality.</td>
<td></td>
</tr>
<tr>
<td>4. We have continuous improvement programs that include our key suppliers.</td>
<td></td>
</tr>
<tr>
<td>5. We include our key suppliers in our planning and goal-setting activities.</td>
<td></td>
</tr>
<tr>
<td>6. We actively involve our key suppliers in new product development processes.</td>
<td></td>
</tr>
<tr>
<td>7. We rely on few dependable suppliers</td>
<td></td>
</tr>
<tr>
<td>8. We certify our suppliers for quality</td>
<td></td>
</tr>
<tr>
<td>9. We strive to establish long term relationship with our suppliers</td>
<td></td>
</tr>
<tr>
<td>10. We rely on few high-quality suppliers</td>
<td></td>
</tr>
</tbody>
</table>


**SECTION E**

The following statements explain strategic outsourcing of services in your organization. To what extent do you agree with these statements? Please use the following scale to rate your agreement.

<table>
<thead>
<tr>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STATEMENT</th>
<th>SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Organization outsources some of the manufacturing activities from outside vendors</td>
<td></td>
</tr>
<tr>
<td>2. Organization has reliable and committed outsourcing partners.</td>
<td></td>
</tr>
<tr>
<td>3. Organization outsources the manufacturing activities to focus on core competencies.</td>
<td></td>
</tr>
<tr>
<td>4. Improvement in customer services due to outsourcing.</td>
<td></td>
</tr>
<tr>
<td>5. Organization grabs the opportunity of emerging technology through outsourcing.</td>
<td></td>
</tr>
<tr>
<td>6. Inventory liabilities of the organization have gone down due to outsourcing.</td>
<td></td>
</tr>
<tr>
<td>7. Organization has succeeded in diverting capital investment due to outsourcing.</td>
<td></td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>----------------------------------------------------------------</td>
</tr>
<tr>
<td>8.</td>
<td>The orientation of my company has shifted from managing</td>
</tr>
<tr>
<td></td>
<td>vertical functions to integrating full stream processes from</td>
</tr>
<tr>
<td></td>
<td>the supplier to the consumer</td>
</tr>
<tr>
<td>9.</td>
<td>My company has developed and is pursuing a plan to</td>
</tr>
<tr>
<td></td>
<td>establish and maintain business partnerships</td>
</tr>
<tr>
<td>10.</td>
<td>My company extensively measures logistics performance in</td>
</tr>
<tr>
<td></td>
<td>terms of cost, productivity, customer service, asset</td>
</tr>
<tr>
<td></td>
<td>management, and quality</td>
</tr>
<tr>
<td>11.</td>
<td>My company successfully utilizes time-based logistics</td>
</tr>
<tr>
<td></td>
<td>solutions like continuous replenishment, quick response,</td>
</tr>
<tr>
<td></td>
<td>and just-in-time with customers and/or suppliers</td>
</tr>
<tr>
<td>12.</td>
<td>Manufacturing or logistics information systems in my</td>
</tr>
<tr>
<td></td>
<td>company are being expanded to include more integrated</td>
</tr>
<tr>
<td></td>
<td>applications</td>
</tr>
<tr>
<td>13.</td>
<td>My company utilizes more strategies to postpone movement</td>
</tr>
<tr>
<td></td>
<td>and final product configuration today than two years ago</td>
</tr>
<tr>
<td>14.</td>
<td>My company has procedures in place to facilitate reverse</td>
</tr>
<tr>
<td></td>
<td>logistics</td>
</tr>
<tr>
<td>15.</td>
<td>My company has undergone extensive logistics process re-</td>
</tr>
<tr>
<td></td>
<td>engineering during the past two years</td>
</tr>
<tr>
<td>16.</td>
<td>My company considers logistics as one of the core strengths</td>
</tr>
<tr>
<td>17.</td>
<td>My company believes in the strategic values of using IT in</td>
</tr>
<tr>
<td></td>
<td>our supply chain. Therefore, the development of IT is</td>
</tr>
<tr>
<td></td>
<td>driven and planned by senior management</td>
</tr>
<tr>
<td>18.</td>
<td>My company has partnerships with customers / suppliers</td>
</tr>
<tr>
<td></td>
<td>who operate under principles of rewards and risks.</td>
</tr>
<tr>
<td>19.</td>
<td>Management emphasis has shifted from managing separate</td>
</tr>
<tr>
<td></td>
<td>logistics functions to managing whole supply chain.</td>
</tr>
<tr>
<td>20.</td>
<td>My company has common, agreed to policies and procedures to</td>
</tr>
<tr>
<td></td>
<td>standardize logistic operation</td>
</tr>
</tbody>
</table>

-THE END, THANK YOU –

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