An Information Operational Model for Procurement Management in the Thai Supply Chain

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Abstract— Research aimed to design and to assess an information operational model for procurement management in Thai supply chain. A samples are ten experts in the field of information, and supply chain. The data is analysed by means and standardized deviations. The research about an information operational model for procurement management in Thai supply chain consists of six elements namely main elements Suppliers, Producer, Finished goods, and Customers. The assessment about an information operational model for procurement management in Thai supply chain using Black-Box technique. The research findings revealed that an information operational model for procurement management in Thai supply chain is appropriate at the high level which mean that This model can be develop information system.

Keywords— An information operational model, procurement management, Thai supply chain

1. Introduction

Currently, procurement refers to the process of getting products and services for a company to run. Businesses employ procurement because it enables cost savings that increase profits. You may make sure that your company's needs are addressed through procurement, which will aid in its expansion. With firms expanding their offerings to satisfy consumer demand, procurement has grown in importance over time. Controlling the procedures involved in procuring commodities, services, products, and materials to satisfy company requirements is known as procurement management. Businesses in a variety of industries rely on procurement management to control the connection with suppliers and ensure that raw materials are purchased at the best possible price. It is a complete process control, starting with the incoming data.[17] An application of concept of supply chain management information system is applied to procurement system. It will be optional because the business needs to be highly competitive due to increasingly high competitions from both within and outside the country. In order to be highly competitive, organizations in the sector need to have personnel with, ability who can work efficiently to increase output. The organizations, therefore, need to have sufficient information and resources to increase their respond to the demand of their clients. Thus, the supply chain management process is a key process to support the organization’s whole activities system from upstream to downstream. It enables the organization to promptly check the information system to ensure that the organization operates smoothly and effectively based on the determined strategies.[8] Based on realization, researcher has decided develop and evaluate an information operational model for procurement management in Thai supply chain for ensuring customer satisfaction.[1]
and upgrading the proficiency of supply chain exercises.[16]

3. Research Methodology
3.1 Synthetic the document an information operational model for procurement management in Thai supply chain and interviewing the expert
3.2. Create an information operational model for procurement management in Thai supply chain
3.3 Provide an information operational model for procurement management in Thai supply chain
3.4 Create a questionnaire for evaluate the model’s suitability.
3.5 Present the ten experts with the designed an information operational model for procurement management in Thai supply chain.
3.6 An information operational model for procurement management in Thai supply chain is modified in accordance with the advice of the experts.
3.7 After revision, an information operational model for procurement management in Thai supply chain is presented in the questionnaire of the diagram with the report.
3.8 Examine the findings of the assessment of an information operational model for procurement management in Thai supply chain.

4. Results
An information operational model for procurement management in Thai supply chain are shown in figure 1.

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\text{Figure 1: An information operational model for the procurement management in Thai supply chain}
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1. Suppliers
Suppliers refer to raw material, The parts, Component, Capital, Labour, Management, Machinery to the producer. They can record in the computer system.

2. Producer
Producer mean company, factory or other private organization. It performs the duty to transform raw materials, or entering canes, into the finished products. Producer will perform its duty of raw materials implement and performance assessments of each activity namely Planning, Executing a purchase order, Negotiating a contract, Ordering raw materials, Supplies, Managing inventory.

3. Finished goods
Finished goods refer to the products that the customer receives.

4 Distributor
Distribution to the steps taken to move and store a product from the supplier stage to a customer stage in the supply chain.

5. Customers
Customers mean the end-of-process component of model. They include the society. Finally, the end product will provide added value to the supply chain.[1],[2],[3],[4],[5],[6],[17]

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\text{Table 1: Results for evaluation about an information operational model for the procurement management in Thai supply chain}
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<table>
<thead>
<tr>
<th>No</th>
<th>Evaluation Lists</th>
<th>X</th>
<th>S.D.</th>
<th>Suitability</th>
</tr>
</thead>
<tbody>
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<tr>
<td>2</td>
<td>Suppliers</td>
<td>3.64</td>
<td>1.39</td>
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</tr>
<tr>
<td>3</td>
<td>Producer</td>
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<td>0.69</td>
<td>High</td>
</tr>
<tr>
<td>4</td>
<td>Finished goods</td>
<td>3.60</td>
<td>0.69</td>
<td>High</td>
</tr>
<tr>
<td>5</td>
<td>Distributor</td>
<td>3.60</td>
<td>0.96</td>
<td>High</td>
</tr>
<tr>
<td>6</td>
<td>Customers</td>
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<td>0.82</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>3.63</td>
<td>1.00</td>
<td>High</td>
</tr>
</tbody>
</table>

Table 1, The experts found that an information operational model for procurement management in Thai supply chain is highly appropriate \((X=3.63, \text{S.D.}=1.00)\).

5. Discussion
An information operational model for the goods maritime transport management in Thai supply is considered to be high appropriate \((X=3.63, \text{S.D.}=1.00)\), and the design was correspond to the research of Chansamut and Piriyasurawong has studied supply chain and information system about educational [2] In addition, Chansamut's research also found that supply chains and information systems [3],[4],[5],[6],[7],[8],[9],[10],[11],[12],[13],[14],[15]

6 Conclusion
An information operational model for procurement management in Thai supply is appropriate at the high level. The rating mean of 3.63 and standard deviation of 1.00, which means that the model can help to develop information.

7. Recommendation
An information operational model for procurement management in Thai supply is considered to be high appropriate if possible it should create information system for develop a model.

Reference


