An exploratory investigation of the influential factors when making a packing tape buying decision for the food industry

阮英哲、曾清枝

E-mail: 9607395@mail.dyu.edu.tw

ABSTRACT

Taiwan Food Industry has history targeting the international market due to the limited size of its own and some negative conditions. However, it requires a sense of uniqueness to build up originality, to develop a brand name, and to be internationally competitive. So besides emphasizing on the production techniques, research and development capability, it is equally important to look into the outer part of the thing — the packing. There are a number of things need to be taken consideration for packing, such as visually pleasant looking, forgery prevention, and convenience. Blackmail threat is yet another important issue in packing that should not be overlooked and should be carefully dealt with. In this case, the selection of the packing tape is relatively important. Nonetheless, the packing tape procurement is not normally treated the way it 's supposed to. This study hopes to provide the food industry some analytical strategies to apply when buying and selecting packing tapes. Analytical Hierarchy Procedure (AHP) was applied in this study to explore the consideration factors for the food industry when buying the packing tapes. The AHP method was used for the decision-making model. In another word, a hierarchical structure and paired matrices are used for assessment and evaluation. The evaluation standard of the related hierarchical structure was drawn after a thorough paper discussion, expert interviews and investigations, and brain storming. Procurement Performance Structure first came out after the paper discussion, then the Evaluation Standard after the brain storming, finally came the 4 Factor Dimensions (Cost, Quality, Time, Service) and 15 Evaluation Factor Points, which can be used for a selection or for judging a selection. Summary of Findings: 1. The importance degrees for the 4 factor dimensions, in descending order, are Quality Factor Dimension (0.591), Cost Factor Dimension (0.283), Time Factor Dimension (0.077), and Service Factor Dimension (0.049). This shows that the food industry cares more for quality than they do for cost. 2. The top three calculated scores for Factor Points are Durability (0.315), Unit Cost (0.189), and Supply Stock (0.142). This shows that a free competitive economy demands both good quality and reasonably inexpensive price. Therefore, enhancing quality and lowering cost are the absolute keys for enterprises to succeed. 3. With the help of the evaluation model, the food industry can reduce to minimal the wrong decisions when conducting packing tape procurement.

Keywords: Analytical Hierarchy Procedure(AHP), Procurement, Tape

Table of Contents

內容目錄	中文摘要		iii 英文摘要
	. v 誌謝辭	vii 內容目錄
	viii ā	長目錄	x 圖目錄
		xi 第一章 緒論.....	
		. 1 第二節 研究目的	り研究流程1 第三節 研究流程
		2 第四節 研究流	記程圖 3 第二章 文獻探討
		4 第一節 採購	精之相關研究 4 第二節 膠帶產業的現況
		16 第三節 分析原	層級程序法(AHP)之發展歷程23 第三章 研究方法
		30 第一節 分	分析層級程序法(AHP)之演進 30 第二節 分析層級
程序法(A	HP)之基本值	設31 第三節	「 分析層級程序法(AHP)之流程及相關步驟 33 第四節 包
裝膠帶採	購評估準則	與架構建立....39 第四章	章 研究結果討論43 第一節
研究樣	本	43	第二節 評選因素權重43 第三
節 評	選準則權重		46 第四節 整體相對優勢之評估 49
第五節	一致性檢	定	55 第五章 結論
第一	節 結論		56 第二節 建議
57 參表	き 文書		58

REFERENCES

一、 中文部份 中國採購管理協會 , 「採購 」 , Vol.38 , 民國 88 年 7 月。 中國採購管理協會 , 「採購技能培育手冊 」 , 民國 90 年。 中 國採購管理協會,「採購策略實務指南」,民國 90 年。 王忠宗(1999),許成 編著,「採購學」,國立空中大學印行。 許成,「物枓採 購供應來源的選擇 」, 現代審計, 314 期, pp.1-2。 唐印星(1999),「採購績效衡量關鍵因素之研究以台灣電子、汽車、鋼鐵、機械等產 業為例」,雲林科技大學工業工程與管理所碩士論文。 傅和彥(1990),「採購管理」,前程企管,第三版。 張淑美(1993),應用分析層 級法於購併策略規劃與評估購併對象-以台灣證券商合併為例。台灣工業技術學院碩士論文,未出版。 鄧國源與曾國雄(1989),層級分析 法(AHP)的內涵特性與應用(上),中國統計學報,27(6),5-22。 鄧國源與曾國雄(1989),層級分析法(AHP)的內涵特性與應用(下),中國統 計學報,27(7),1-19。 黃卿爾(2005),垃圾費隨袋徵收制度優先執行縣市之評選,大業大學事業經營研究所碩士論文。 鍾權宏(2002), 「應用分析層級層序法於我國政府採購績效指標之研究」,花蓮縣,東華大學企業管理所,碩士論文。 簡禎富(2005),決策分析與管理 。台北:雙葉書廊。 二、英文部份 Aczel, J., & Alsina, C. On Synthesis of Judgments, Socio-Economic Planning Sciences, 20(6), 333-339, 1986. Baily, P.and Farmer, D., Purchasing Principles and Management, London, Pitman Purchasing Inc, ch.5-10, 1982. Chao, C.N., Purchasing Performance Measurement--Views of Purchasing Managers, U. M. I., Buyers and Internal Customers from Different industries, 1989. Croell, R. C., Measuring Purchasing Effectiveness, International Journal of Purchasing and Materials Management, Vol. 16, No.2,pp. 22-26, 1980. Leenders, M., H. Fearson, and W. England, Purchasing AndMaterials Management, IRWIN, 8th edition, 1980, Pooler, V. H., Measuring the Purchasing Man: TREND, International Journal of Purchasing and Materials Management, Vol. 9, No. 4, pp. 68-85, 1973. Saaty, T. L., & Vargas, L. G., The Logic of Priorities. Kluwer-Nijhoff: Boston, Massachusetts ,1980. Saaty, T. L., The Analytic Hierarchy Process. McGraw-Hill: New York ,1980. Saaty, T. L., Risk-Its Priority and Probability: The Analytic Hierarchy Process, Risk Analysis, 7(2), 159-172,1986. 三、參考網站 社團法人中華採 購與供應管理協會 http://www.capm.org.tw/ 台灣區黏性膠帶工業同業公會 http://www.taiwantape.com/ AHP 套裝軟體Expert Choice 官 方網站:www.expertchoice.com/customerservice/ahp.htm