PERFORMANCE MEASUREMENT INDICATORS FOR FARMERS' ORGANIZATION: A CASE STUDY IN KEDAH

August 1983

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UNIVERSITI UTARA MALAYSIA 2011

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Thesis Submitted to the Othman Yeop Abdullah Graduate School of Business, Unversiti Utara Malaysia in Fulfillment of the Requirement for the Degree Master of Science (Finance)

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ABSTRACT

Performance measurement is a broad and interesting topic to study,

especially in agriculture sector. In Malaysia, agriculture sector have been

the third source of income for the national economic growth. The

agriculture sector has also been determined by government as a valued

prospect and needs to be concentrated especially to organization that relates

with farmers. Thus, the purpose of this research is to investigate the

performance measurement indicators that can be used by Farmers

Organization in order to measure it performance. This study is focused on

question:"What are financial and non-financial indicators that could be

used as performance measurement by Farmers Organization?" To answer

the research problem, this research employs the convergent interview with

the Farmers Organization in Muda Agriculture Development Authority

(MADA) region. From the analysis, the result suggested that have 9

indicators classified as performance measurement indicators for Farmers

Organization.

Keyword: Performance measurement; Farmers Organization

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ACKNOWLEDGEMENT

In the name of Allah, the most Gracious and the most Merciful. All my praises and gratitude to Allah, for His kindness and for meeting me with many wonderful people who, with HisGrace, have had helped me tremendously in the successful completion of this research.

This research would not have been possible without the constructive comments, suggestion and encouragement received from my supervisor who has read the various draft. My special thanks and appreciation to my dedicated advisor, Assoc. Prof. Dr. Mohd Amy Azhar Bin Hj. Mohd Harif for the advices, guidelines, criticism and suggestions. For my internal examiner Assoc. Prof. Hoe Chee Hee, thank you for support and precious advice to me.

I would also like to thank my parents especially my mother, Hasnah Bt Abdullah who have been a continuous source of inspiration and encouragement. Thanks for giving a great support throughout the duration of my studies and unceasing prayers for my success. I also extend my sincere appreciation to my lovely wife Noor Hasliza Bt Mat Zain and my son, Muhammad Izzul Haziq for their encouragement, reassurances and support throughout my pursuance of the course in Master of Science (Finance) and ultimate achievement of this project.

In addition, thanks to all parties especially the management of Muda Agricultural Development Authority (MADA), my friends that helped, support and provided insight and useful ideas, constructive comments, criticism and suggestion throughout the duration of completing this research.

Thank you.

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LIST OF ABBREVIATIONS

PM Performance Measurement

SME Small and Medium Enterprise

AFO Areas Farmers Organization

ROI Return On Investment

MADA Muda Agriculture Development Authority

FOA Farmers Organization Authority

FDA Fisheries Development Authority

CHAPTER 1

BACKGROUND OF STUDY

1.1 Introduction

This chapter provides an overview of the project paper with a brief concept of performance measurement in the problem statement section. It will further discuss on research question and objective followed by significant and justification of the study. The summary of the chapter wraps up in the conclusion section. The next chapter will deal with literature review.

1.2 Background of the Study

Performance measurement (PM) is a topic which is often discussed but rarely defined (Neely et. al, 1995). Literally it is the process of quantifying action, where measurement is the process of quantification and action leads to performance (Neely et. al, 1995). In other words performance measure means to measure costs, quality, quantity, cycle time, efficiency, productivity of products and services. Measurement of performance is normally based on quantitative (report) base in which targets and objectives are established and accessed. Measurement is an organization wide phenomenon and such measures are inter-dependent and their aggregates contribution will reflect the effectiveness of the total company's effort (Zairi, 1993).

Thus, performance measurement is not simply concerned with collecting data also associated with predefined performance goal or standard (Jensen, 2003). In addition, performance measurement is better thought of as an overall management system involving

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REFERENCES

Arcas N. and Ruiz S., (2003), 'Marketing and performance of fruit and vegetable co-operatives', Journal of Co-operative Studies, 36,1, 22–44.

Boyd, S., M. Boland, K. Dhuyvetter, and D. Barton. (2007). "Determinants of Return on Equity in U.S. Local Farm Supply and Grain Marketing Cooperatives." Journal of Agricultural and Applied Economics 39.

Brown, A.D., Humphreys, M. and Gurney, P.M. (2005). *Narrative, identity and change: a case study of Laskarina Holidays*. Journal of Organisational Change Management, 18(4), pp. 312-326.

Carson, D., Gilmore, A., Perry, C., and Gronhaug, K. (2001), *Qualitative Marketing Research*. United States: SAGE Publications.

Chen, K.H. and Shimerda, T.A. (1981), An empirical analysis of useful financial ratios", Financial Management 10, 51-60.

CIMA (1993). Performance Measurement in the Manufacturing Sector. London: CIMA.

Cho, H.J. and Pucik, V.(2005), Relationship between Innovativeness, Quality, Growth, Profitability, and Market Value, in: Strategic Management Journal (26).

Denzin NK and Lincoln YS (eds.) (2000). Handbook of Qualitative Research, 2nd edn. Thousand Oaks Sage Publications

Farmers Institution Management Division, MADA.

Farmers Organization Act 1973 (Act 109).

Ferrier G.D. and Porter P.K., (1991), 'The productive efficiency of US milk processing cooperatives', Journal of Agricultural Economics, 42, 2, 161-74.

Fitzgerald, L, Johnston, R, Brignall, S, Silvestro, R. and Voss, C (1991), *Performance Measurement in Service Businesses*, CIMA, Black Bear Press Ltd. King's Hedges Road, Cambridge.

Hashim, M. K., (2005), Small and medium sized enterprises in Malaysia: Challenges in the new economy. Sintok: UUM Press.

Haskett, A.J, Dixon, J.R and Vollmann, T.E (1994), Strategic control and performance measurement, Journal of Cost Management, 1994

Holme, J. M., and Solvang, B. K. (1997). Research method – about qualitative and quantitative method, Student Literature, Lund.

Hudson, M., Smart, A. and Bourne, M. (2001). Theory and practice in SME performance measurement systems: International Journal of Operations & Production Management, 21(8), 1096-1115.

Jarvis, R., Curran, J., Kitching, J., and Lightfoot, G., (2000), "The use of quantitative and qualitative criteria in the measurement of performance in small firms", Journal of Small Business and EnterpriseDevelopment, 7(2), pp. 123–133.

Jensen, M. C. (2003): A Theory of the Firm: Governance, Residual Claims, and Organizational Forms, Harvard University Press.

Jean Lee (2004), Narrative approaches to the transfer of organisational knowledge. Knowledge Management Research and Practice, 2(3), pp. 184-193.

Kaplan, R.S. and Norton, D.P. (2000), *The Strategy Focused Organization: How Balanced Scorecard Companies Thrive in the New Business Environment*: Harvard Business School Press, Boston.MA.

Kumar N., Scheer L.K. and Achrol R.S., (1992), 'Assessing reseller performance from the perspective of the supplier': Journal of Marketing Research, 29, 238-53.

Langfield-Smith, K., Thorne, H and Hilton, R.W., (2003), Management Accounting: An Australian Perspective, 3rd Edition, McGraw-Hill, Australia.

Lincoln, Y. and Guba, E. (2000), *The Qualitative Researcher's Companion*. Journal of Management 23(3), 409-473

Luther, C., Fortuin, L. and Wouters, M., (2005), Designing a performance measurement system: a case study. European Journal of Operational Research, 156 (2), 267-286.

Matsumoto, K., Shivaswamy, M. and Hoban, J. P., Jr., (1995), Security analysts' views of the financial ratios of manufactories and retails", Financial Practice and Education 5, 44-55.

Mohd Harif, M.A.A. (2001), Financial planning in the establishment of a new franchise system in Malaysia: An action research study", Paper of a Doctor of philosophy in the Faculty of Business and Commerce, University of Southern Queensland Toowoomba, Australia.

Mohd Amy Azhar B. Hj. Harif, Harizal Bin Osman and Chee Hee Hoe, (2010): Financial Management Practices: An In-Depth Study Among The CEOs of Small and Medium Enterprises (SMEs), International Review of Business Research Paper Volume 6. Number 6. December 2010 Pp.13 – 35

Moyano J. and Fidalgo F.A., (2001), *The impact of dimension cooperative*, (REVESCO),73, 95–121.

Neely, A., Gregory, M. and Platts, K. (1995), "Performance measurement system design: a literature review and research agenda", International Journal of Operations & Production Management, Vol. 15, No. 4, pp. 80-116.

Neely, A. (1999), "The performance measurement revolution: why now and what next?" International Journal of Operations & Production Management, 77 University of Cambridge, UK: MCB University Press, Vol. 19, No. 2, pp. 205-228.

Neely, A., Adams, C., Kennerley, M., (2002). The Performance Prism—The Scorecard for Measuring and Managing Business Success. Prentice-Hall, Englewood Cliffs, NJ.

Parker and Rachel, (2000), Small is not necessarily beautiful: An evaluation of policy support for small and medium-sized enterprises in Australia", Australia Journal of Political Science, Vol. 35 (2), 239-415

Perera, S. and Baker, P (2007). 'Performance Measurement Practices in Small and Medium Size Manufacturing Enterprises in Australia', Small Enterprise Research, Vol. 15, No. 2, 10-30.

Sherman, A., and Bohlander, G. (1992). *Managing human resources (Ninth Edition)*. Cincinnati, OH: Southwestern Publishing Co.

Sun, J., and Li, H., (2006), Data mining method for listed companies' financial distress prediction, Knowledge-Based Systems, up loaded on 8 December 2006. www.Scincedirect.com

Svenning, M.M (2003). *Ethical considerations in qualitative research*. Western Journal of Nursing Research, 10(2), 150-162.

Webb, D., Greatbanks, R., and Hough, J., (1999), "A foundation for improving performance measurement in manufacturing SMEs": Proceedings 2nd International Conference on Stimulating Manufacturing Excellence in SMEs (Plymouth: University of Plymouth), pp. 201–210.

Webster, F. E. Jr., (1992), 'The Changing Role of Marketing in the Corporation'. Journal of Marketing, Vol. 56, Issue 4, pp. 1-17.

Zairi, M. (1993), "Implementing a TQ Based performance measurement: a methodology approach", a report commission commissioned by universal Plc, Bradford university.

Zaman, M. (2004): Survey "The role of financial and non-financial performance evaluation measures in the process of management control over foreign subsidiaries-empirical evidence in Slovene multinational companies". Ljubljana, Faculty of Economics.