EFFICIENCY OF BAITUL MAAL WA TAMWIL AS ISLAMIC MICROFINANCE INSTITUTION IN INDONESIA

BY

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ABSTRACT

The primary objectives of most microfinance programmes are poverty alleviation and financial sustainability. By providing financing, Microfinance Institutions (MFI) aims to encourage the poor to become economically independent. Islamic microfinance offers financing schemes based on shariah principles which are different to conventional microfinance. Conventional microfinance deals with interest (riba) which is not allowed in Islam. Indonesia with the Muslim biggest population in the world has established the Baitul Maal wa Tamwil (BMT) which represents significant growth of Islamic MFIs in the country. Islamic MFI promotes Islamic values in their financial services and also optimises the charitable funds to help the needy. The effort to sustain and improve the quality life of the poor is the main objective of BMT. However, many studies show that this institution has inefficiencies on its operations, represented by the lack of expertise in the field of management. Hence, this study attempts to analyse the efficiency of BMT with the following objectives: first, to examine the efficiency of BMT as Islamic MFI in Indonesia; second, to investigate the influencing determinant factor of BMTs efficiency in Indonesia; and third, to explain issues related to BMT's efficiency in Indonesia. Both primary and secondary data are used to achieve the objectives. The Data Envelopment Analysis (DEA) approach is used to measure the technical efficiency of BMT, while determinant factors that influence BMT efficiency are measured by multiple regression analysis. This study, then, uses a case study research method to find the issues affecting BMT's efficiency. The samples for DEA method are gathered from 57 BMTs in three provinces with highest poverty rate and highest number of BMT namely, West Java, East Java and Central Java for the period of 2009 to 2011. Meanwhile, with case study research method, the study selects nine BMTs which represent the following criteria: most efficient BMTs, efficient BMTs and least efficient BMTs. The results show that the main source of technical inefficiency is pure technical inefficiency. It may indicate the lack of managerial system and resources in most BMTs. The study also finds a positive effect of profitability on technical efficiency, whereas, size and capital negative affect efficiency. The study finds that the main issue of BMTs is not related with the size or capital but rather human capital and managerial issues. Hence, focusing on the improvement of human capital and managerial system of BMTs is more important than increasing their size or capital. The study provides a significant contribution on how BMT, as an Islamic financial intermediary, can improve its efficiency. Moreover, the study provides policy recommendations for the Authority of Financial Services, the Department of Cooperatives and the BMT Centres in Indonesia concerning the development and enhancement of BMT roles in the country by increasing the quality of BMT's human capital. Therefore, BMT may support the government mission to achieve its socio economic objectives. The findings may be relevant and applicable to Islamic MFI not only in Indonesia, but in other Muslim countries and for further empirical research in this area.

ملخص البحث

إن أهم ما يستهدف إليه معظم برامج التمويل الأصغر هو التخفيف من حدة الفقر والاستدامة المالية. والمؤسسات التمويلية الأصغر ترغب في تشجيع الفقراء على الاعتماد الذاتي الاقتصادي من خلال تمويلاتما. فيقدم التمويل الإسلامي الأصغر مخططات تمويلية قائمة على مبادئ الشريعة الإسلامية التي تختلف عن التمويل التقليدي الأصغر. أما التمويل التقليدي للمشاريع الصغيرة فهي توافق الفائدة (أي الربا) المحرمة في الإسلام. وإندونيسيا باعتبارها أكبر السكان المسلمين عددا في العالم أنشئت مؤسسات مالية تسمى بيت المال والتمويل التي مثلت أعلى نسبة للنمو بين المؤسسات التمويلية الإسلامي الأصغر في البلاد. ومع ذلك، فقد أظهرت العديد من الدراسات أن هذه المؤسسات تغيب فيها الإدارة. ومن ثم تستهدف هذه الدراسة إلى ما يلي: أولا: اختبار الكفاءة لدى بيت المال والتمويل بكونها مؤسسة تمويلية إسلامية صغيرة في إندونيسيا. ثانيا: البحث عن العوامل المحددة التي تؤثر على كفاءة بيت المال والتمويل في اندونيسيا. وثالثا: شرح القضايا التي ترتبط بكفاءة بيت المال والتمويل في إندونيسيا. وتستخدم الدراسة البيانات الأولية والثانوية، وتنتهج نهج تحليل محفظة البيانات (DEA) لقياس الكفاءة التقنية لدى بيت المال والتمويل، بينما يتم قياس العوامل المحددة المؤثرة على كفاءة بيت المال والتمويل عن طريق تحليل الانحدار المتعدد. وعلاوة على ذلك، يتم تحليل القضايا المتعلقة بكفاءة بيت المال والتمويل بنهج دراسة الحالة. وتم جمع العينات لتحليل محفظة البيانات (DEA) من57 بيت المال والتمويل من ثلاث محافظات ذات أكبر عدد من السكان الفقراء وأكبر عدد من مؤسسات بيت المال والتمويل المشغلة. وهي: جاوا الغربية، وجاوا الشرقية، وجاوا الوسطى، للفترة بين 2009 إلى 2011. وفي الوقت نفسه، مع دراسة هذه الحالة، تختار الدراسة تسعة مراكز لبيت المال والتمويل التي تمثل المعايير التالية: بيوت المال والتمويل الأكثر كفاءة، وبيوت المال والتمويل ذات الكفاءة وبيوت المال والتمويل الأقل كفاءة. وأشارت النتائج إلى أن السبب الرئيس لانعدام الكفاءة التقنية هو انعدام الكفاءة التقنية البحتة، وهذا قد يعود إلى غياب النظام الإداري والموارد بمعظم مؤسسات بيت المال والتمويل، كما أشارت إلى وجود التأثير الإيجابي للربحية على الكفاءة التقنية، وكذلك الحجم ورأس المال يؤثران تأثيرا سلبيا على الكفاءة. وأيدت الدراسة أن القضية الرئيسة لدى بيت المال والتمويل لا تتعلق بالحجم أو برأس المال أكثر ما يكون تعلقها برأس المال البشري والقضايا الإدارية. ومن هنا، يكون التركيز على تطوير رأس المال البشري والموارد الإدارية لدى مؤسسات بيت المال والتمويل أكثر أهمية بالنسبة لزيادة الحجم أو رأس المال. تقدم هذه الدراسة إسهاما كبيرا في كيفية تحسين كفاءة مؤسسات بيت المال والتمويل بكونما الوسيط المالي الإسلامي. وعلاوة على ذلك، تقدم الدراسة توصيات لسلطات الخدمات المالية، ووزارة الجمعيات التعاونية ومؤسسات بيت المال والتمويل الإندونيسية لتركيز الاهتمام بشكل أكثر وتعزيز أدوار مؤسسات بيت المال والتمويل في البلاد، وبالتالي، فمن المتوقع تعزيزها لمهام الحكومة في تحقيق الأهداف الاجتماعية والاقتصادية. وقد تكون هذه النتائج ذات الصلة والقابلية للتطبيق على مؤسسات التمويل الأصغر الإسلامي ليست في البلاد الاندونيسية فحسب بل وغيرها من البلاد المسلمة، وكما يتوقع أيضا استخدامها لبحوث تجريبية أخرى في الجحال نفسه.

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DECLARATION

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This thesis is de	dicated to my lovely husband, children and parents for laying the
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LIST OF ABBREVIATIONS

AA Asset Approach

ADB Asian Development Bank
AE Allocative Efficiency
AIM Amanah Ikhtiar Malaysia

AO Account Officer

BAAC Bank for Agriculture and Agricultural Cooperatives

BCC Banker, Charnes and Cooper

BM Baitul Maal BT Baitut Tamwil

BMM Baitul Maal Muamalat BMT Baitul Mal wa Tamwil BMT BM BMT Berkah Madani

BMT BN BMT Binama

BMT BIM BMT Bina Insan Mandiri

BMT BR BMT Barrah

BMT DMS BMT Dana Mandiri Syariah

BMT HZ BMT Huwaiza

BMT IR BMT 'Ibaadurrahman

BMT KR BMT Kartini

BMT MM BMT Mughni Madani BPRs Bank Perkreditan Shariah

BRAC Building Resources Across Communities

BRI Bank Rakyat Indonesia
BUS Bank Umum Syariah
CE Cost Efficiency

CRS Constant Return to Scale

CGAP Consultative Group to Assist the Poor

CU Credit Union

DCI Department Cooperative Indonesia
DEA Data Envelopment Analysis
DFA Distribution Free Approach
DMU Decision Making Unit
EE Economic Efficiency
FO Funding Officer

FDH Free Disposal Hull Analysis

GB Grameen Bank

IA Intermediation Approach
ICFA Islamic Cooperative Finance
INKOPSYAH Induk Koperasi Syariah
IT Information Technology

KJKS Koperasi Jasa Keuangan Syariah
LAS Natural Logarithm of Asset
LCAP Natural Logarithm of Capital
LPRO Natural Logarithm of Profitability
MCCA Muslim Community Co-operatives

ME Microenterprises

MENA Middle East and North African

MFI Microfinance Institution

Microfinance International Exchange MIX Non Government Organization NGO **NPF** Non Performing Financing **NPL** Non Performing Loans Overall Efficiency OE OJK Otoritas Jasa Keuangan **OTE** Overall Technical Efficiency **OLS** Ordinary Least Square **Production Approach** PA **Profit Efficiency** PE

PBMT Perhimpunan Baitul Maal wa Tamwil
PLP Parametric Linear Programming
PINBUK Pusat Inkubasi Bisnis Usaha Kecil

PTE Pure Technical Efficiency

RCDP Rural Community Development Project

SE Scale Efficiency

SFA Stochastic Frontier Analysis

SHG Self Help Group SHU Sisa Hasil Usaha

SME Small and Medium Enterprises

TE Technical Efficiency
TFA Thick frontier Analysis
TFP Total Factor Productivity
UCA User Cost Approach

UNDP United Nations Development Program

UUS Unit Usaha Syariah
VAA Value Added Approach
VRS Variable Return to Scale

Common abbreviation

e.g (exempligratia) for example

et al. (et alia): and others

etc. and so fourth

i.e that is

PBUH Peace be upon him SWT Subhanallohu wa Ta'ala

vol. volume

CHAPTER ONE

INTRODUCTION

1.1 RESEARCH BACKGROUND

Most developing countries in the world are facing poverty-related problems. The main cause of poverty is that the poor do not have access to financial services to improve their economic condition. Bank is one of the financial institutions that provides financial services – yet they often neglect poor customers and consider them as 'unbankable' due to their limited resources and conditions.

The Asian Development Bank or ADB (2004) defines poverty as a condition characterized by a lack of access to essential goods, services, assets and opportunities to which they should be entitled. It means that the poor need a tool to ease their consumption and increase their earning capacity to improve their standard of living. One way to help the poor to fight poverty is by providing them with financial assistance and services to enable them to participate actively in various economic opportunities.

In the last few years, microfinance has become an important component in reducing poverty, especially in developing countries. Microfinance is defined as the provision of a broad range of financial services such as deposits, loans, payment services, money transfers and insurance to poor and low-income households and microenterprises (ADB, 2004). Many studies have provided evidence that microfinance is an important and effective tool to eradicate poverty (Hasan and Alamgir, 2000; Zaman, 2004; Barr, 2005, Ahmed, 2009). Providing these financial services can assist the poor to establish or expand microenterprises (MEs) in the

informal sectors of economy and enhance their quality of life or release them from poverty (Widiyanto, 2007).

The objectives of most microfinance institutions (MFIs) are to achieve poverty reduction and financial sustainability (Nghiem et al., 2006; Ahmed, 2009; Qayyum and Ahmed, 2006). These two objectives represent the missions of MFIs; social and economic. To sustain, most MFIs charge high interest rates for microfinancing. The interest is calculated based on high transaction costs or default payment risk that could happen in financing the poor.

Table 1.1 Interest Rates of Microfinance Institutions (MFIs) in Several Countries

Microfinance Institution in Country	Interest Rate (per annum)
Bangladesh	20% - 35%
Cambodia	~ 45%
Nepal	18%-24%
India	20%-40%
Indonesia (BPRs, local-level microbanks)	28%-63%

Sources: Helms and Reille (2004)

Table 1.1 describes the interest rates charged by MFIs in several countries. High interest ranges from 20% per annum (MFIs in Bangladesh) to 63 % per annum by MFIs in Indonesia. As the basic principles of microfinance activity, MFIs offer small loans with high interest rates. The borrower is required to pay back the loan, including interest – regardless whether the business is successful or fail. Thus, all risks are handled by the borrowers.

On the other hand, microentrepreneurs have limited resources to expand in the economic sectors or to enhance their incomes. Charging high interest rates will be a burden for them, because it will not reduce the capital cost of microentrepreneurs

(Widiyanto, 2007). In fact, high interest rate is an obstruction to the development of MFI in the future. Mannan (2010) also argues that high interest rates bearing microcredit is not an answer for reduction of poverty, it just allows poverty to continue. Therefore, the establishment of Islamic MFI which is free from interest has become a necessity. Profit-sharing system as a mean to replace high interest rates is offered to share the risks between all parties involved.

Indonesia with the largest Muslim population in the world, also facing poverty. In 2011, the Center of Statistic Indonesia Bureau states that there are more than 30 million poor people or 12.5% of Indonesia population. But at the same time, there are approximately 55 million of small and medium enterprises (SMEs) or about 101 million active workforces in the country – as the main player in domestic economic activities. Muslim microentrepreneurs are the largest customer for microfinance program in the country, and is included in SME movement. The customer needs financial services which free from interest (read: *riba*).

In 1991, Indonesian government established the concept of Islamic Finance Institution to cater the needs of Muslim customers, especially Muslim microentrepreneurs who are expected to support the development of SMEs. Islamic finance institution comprises Islamic Commercial Bank and Banking Units, Rural Banks and Financial Cooperatives. Rural Banks and Financial Cooperatives assist and accommodate SME by providing microfinancing. It involves changing the standard of living of the people in rural areas by increasing their productivity and earning capabilities. There are very few numbers of Islamic MFI source in Indonesia that cater the needs of Muslims. Recently, the highest growth of Islamic microfinance institutions (Islamic MFI) in Indonesia is Baitul Maal wa Tamwil (BMT).

Islamic Financial Cooperative or BMT is an Islamic MFI, established by individual or group initiatives to help micronetrepreneurs as a strategy for eradicating rural poverty (Kholis, 2009). BMT divides its role into two functions. The functions that represent the missions of BMT are social and business. First, the social mission established by Baitul Maal is collecting and distributing charity funds to the poor as the main objective (Zakat, Infaq, Shodaqoh). Second, Baitut Tamwil is based on commercial or economic activities, upon which the funds are being distributed for productive activities. In addition, Baitut Tamwil also supports saving activities as part of the business in providing financial services to the poor or MEs in economic activities.

Several studies have been devoted to investigate the impact of BMT on poverty alleviation. Amalia (2009) finds that earning capacity of the poor is increased after they joined BMT as members. Adnan et al. (2003) finds that 83% of BMT do not offer only financial products, but also support real products such as trading, agriculture and small and home industry. It means that BMT do not only reduce poverty, but also develop the microenterprises.

Just like conventional microfinance, the argument as to whether or not the BMT have been able to positively impact the lives of the poor is still open to debate. As such, rather than attempting to prove impact which may likely also result in conclusive or opposing argument, it may be more useful to assess the ways through which BMT operation can be enhanced. In this case, the analysis of efficiency of BMT in Indonesia becomes important.

Efficient BMT should be able to fulfil its duty accountably and provide more positive impact. Instead, any form of inefficiency and ineffectiveness should be improved or eliminated to reduce obstacles in achieving BMT mission. Therefore,

measuring the efficiency of BMT is critical as it will encourage the productivity of BMT. As a result, in performing its role, more microentrepreneurs and poor can be reached, poverty can be eliminated, and at the same time, secure BMT position to be sustained in the future. These objectives are consistent and moving parallelly with dual objectives of MFI. Thus, the quality of responsibility towards financial sustainability and poverty alleviation can be achieved.

Widiyanto and Ismail (2007) explain that by increasing efficiency, it enables MFI to generate profits which will increase profit to be returned to investors, and that should encourage them to invest in MFI. Furthermore, they state that higher retained earnings will enable MFI to increase its capital internally and, therefore, it can reach more microentrepreneurs and sustain its operation. Sedzro and Keita (2009) also argue that study on efficiency is important to identify factors which is most likely to influence the performances of MFIs and to know whether MFI perform well and may survive autonomously in the long run.

There are several research articles on measuring the efficiency of microfinance institutions (MFIs) over the world. Most of them use DEA method to measure efficiency and they cover a sample period of two to five years. Among others are Qoyyum and Ahmad (2006), Sedzro and Keita (2009), Nghiem et al. (2006) and Nieto et al. (2007). Measuring efficiency is one of the indicators to measure the performance of an organization, whether it is public and non-public sectors or profit and non-profit organization.

One of objectives of this study is to support previous findings and to fill up the lacks in the literature and empirical researches by analysing the efficiency of BMT. Recently, there are only few studies that explore the efficiency of BMT in Indonesia, including Widiyanto and Ismail (2007), Ali (2009) and Akbar (2010) that find BMT

efficiency is still relatively low and lack of performance. The lack of efficiency on its operation may directly undermine BMT in attaining their desired socio economic objectives.

Different from the existing studies that only focus to analyse BMT in one area, this study attempts to analyse efficiency of BMTs from three different areas in Indonesia. The selection of area represents the role of BMT in serving grass root group of people. Furthermore, this study is also supported by applying methodology and coverage some variables that is different from the previous studies. Supporting by case study method, the study is not only expected to contribute to the literature only, but may also enrich the previous researches by providing the information about how Islamic MFI may survive as a financial sustainability and reducing the poverty by managing their efficiency. The study also expects to create a standard for efficient Islamic MFI which may help the future research to analyse the performance of this institution. Therefore, after reviewing the literature, there is a need to examine to what extent BMT is efficient by analysing the efficiency of BMTs as Islamic MFI in Indonesia.

1.2 RESEARCH PROBLEM

As the largest Muslim population in the world, poverty in Indonesia still continue to rise as the number of the poor does not decrease significantly and people still experience lack of access to finance. BMT, as one of the Islamic MFI in Indonesia, may help the needs of poor Muslim and Muslim microentrepreneurs by providing microfinancing and assisting them to achieve a better life.

Despite the problems during the development of BMT, the opportunity to develop BMT is quite large. BMT may reach poor Muslim population as a means to

increase welfare. This is congruent with government mission to develop the function of Islamic MFI in Indonesia. In fact, BMT roles and tasks are also seen in developing human resources and supporting small and micro enterprises (SMEs) that can support economic activities.

On the other hand, the inefficiency of BMT as reported by previous studies, indicates sign of limited ability of BMT in running their activities. The main problem faced by BMTs is mostly due to the absence of good management (Adnan, et al., 2003; Widiyanto and Ismail, 2007; Ali, 2009; Akbar, 2010) and less understanding on the concepts of Islamic microfinance, especially in the rules of Islamic products and contracts (Amalia, 2009). The problems which posed as a challenge faced by BMT have affected the institution performance as a whole. The consequences include inefficiency and it may cause problems and difficulties relating to its sustainability. There is, therefore, a need to analyse BMT efficiency in order to assess its performance.

There is a public concern over the efficiency of BMT in Indonesia. During the growth of Islamic MFI, BMT's role is important for several stakeholders. Stakeholder is any group within or outside an organization that has a stake in the organization's performance (Daft, 2001). Stakeholders can be creditors, employees, suppliers or owners. The satisfaction of each group can be different depends on interest in the organization. In the case of BMT, stakeholders include board members, government institutions, BMT Centers and customers. They are concerned with financial and social performance of BMTs.

Hence, it is important to analyse the efficiency of BMT. There is also a need to examine influencing factors and the issues which affect BMT efficiency. Therefore, this study aims to analyse the efficiency of BMTs in order to find acceptable solutions

for stakeholders and at the same time to strengthen the sustainable growth of BMT as an Islamic MFI in Indonesia.

1.3 RESEARCH QUESTIONS

The objectives of this study is to examine the efficiency of BMT as Islamic MFI in Indonesia. The approach to understand this problem will be evaluated by using DEA (Data Envelopment Analysis). In addition, this study attempts to ascertain the sustainability of BMT activities. The following are the main research questions of this study;

- 1. To what extent BMT is economically efficient in disbursing Islamic microfinance in Indonesia?
- 2. What are the influencing factors of BMT efficiency?
- 3. What are the issues affecting BMT efficiency and under what conditions such institution is sustainable?

1.4 RESEARCH OBJECTIVES

The purpose of this study is to examine the efficiency of BMT as an Islamic MFI in Indonesia. According to the research questions, the objectives include:

- To examine the efficiency of BMT in Indonesia and their performance over a period of three years (2009 – 2011).
- 2. To investigate the determinant factors that influence the efficiency of BMTs in Indonesia.
- 3. To explain the managerial issues related to BMTs efficiency in Indonesia and how they can be sustained in handling the issues.