Mundell-Fleming Model: The Effectiveness of Indonesia’s Fiscal and Monetary Policies

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Abstract
This study examines the fiscal and monetary policy in Indonesia using the Mundell-Fleming model. The main objective of this study was to determine which policies are effective between fiscal and monetary policies of the national income in Indonesia because Indonesia is a small open economy with not perfect capital mobility. The analysis technique used is Two Stage Least Square (TSLS) by using secondary data base on International Financial Statistics, 2000.I - 2014.II. The research result is monetary policy is more effective than the fiscal policy in which monetary policy multiplier at 0.0028 greater than fiscal policy multiplier 0.001316. The results are consistent with the theory of the Mundell-Fleming.

Key words: Mundell Fleming, Effectivity, Monetary Policy, Fiscal Policy.

INTRODUCTION

The issued policy can be fiscal policy and monetary policy. Besides, by observing the financial crisis that rapidly spreads and defeats the monetary sector, monetary policy may be more effective than fiscal policy. This is in line with the opinion of Mundell and Fleming. Mundell-Fleming's theory is to study and analyze economic phenomena, there is a need to use any models. Therefore, Macro-economic model which can be used to analyze the fiscal and monetary policies which work in an open economy is Mundell Fleming model. The model is also called the IS-LM-BP (Makin, 2002). It explains short fluctuation in GDP, exchange rate, consumption, investment, government spending, net exports and enters international capital flows.

Yarbrough and Yarbrough (2002) state that the exchange rate system adopted and the degree of international capital flows are the determinant of the effectiveness of monetary and fiscal policy in open economies. The differences of exchange rate system used in the economy will greatly influence the effectiveness of economic policy and the determination of the exchange rate.

Mundell-Fleming's theory is intended to study and analyze economic phenomena, where a model is needed. Macro-economic model is to analyze fiscal and monetary policies. Mundell-Fleming explains short-term fluctuation in Gross Domestic Product, exchange rate, consumption, investment, government expenditure, and net export and includes international capital flow.

Mundell-Fleming suggests that monetary policy is more effective compared to fiscal policy to increase GDP. This Mundell-Fleming's finding could work because it is built on an assumption that there is a perfect capital flow as a result of the absence of difference between domestic and foreign interest rates.

Mundell-Fleming model showed that the effects of any economic policies in a "small open economy" depend on the regime or system of exchange rates which were followed by the economy, it can be fixed exchange rate regime or flexible exchange rate regime. In other words, the effectiveness of fiscal and monetary policy in influencing the aggregate income depends on the exchange rate regime. Under the floating or flexible exchange rate regime, there only lies the effective monetary policy which. It means that it can affect the income. Oppositely, under the fixed exchange rate regime, there is only fiscal policy which can affect income.

Mundell-Fleming states that monetary policy is more effective to improve GDP than fiscal policy. Mundell-Fleming's finding can run because it is built on an assumption by the existence of perfect of flow capital as a result of no differences of domestic interest rates and abroad interest rates (Mankiw, 2000: 291).

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Indonesia, on the other hand, is a country of small, open economy where there is a difference between domestic and foreign interest rates, and this sometimes makes the capital flow in an unexpected way. This is the contradictory point regarding whether or not this Mundell-Fleming model could work in Indonesia, i.e. monetary policy is more effective than fiscal policies since some assumptions are not as what the model requires.
As to the objectives, this study aims at: (1) Discovering and reviewing the simultaneous impacts of fiscal and monetary policies on GDP; (2) Discovering and reviewing the effectiveness of fiscal and monetary policies in increasing GDP.

RESEARCH METHODS

This study focuses on fiscal and monetary policies towards Indonesia’s macro economy during a period of 2000.I – 2014.II. The data used in this research are secondary one obtained from International Financial Statistics, issued by International Monetary Fund (IMF), Bank Indonesia and BPS. The analysis model used is simultaneous regression analysis to determine the level of correlation and influence occurring with two-stage least square method. The research model used is simultaneous equation model estimated using Two Stage Least Square (TSLS) method.

IS Equation Block

\[ Y_t = a_0 + b_1 C_t + a_2 I_t + a_3 G_t + a_4 X_t - a_5 I_M_t \]  \hspace{1cm} (1.1)
\[ C_t = b_0 + b_1 Y_t + b_2 T_0 \]  \hspace{1cm} (1.2)
\[ I_t = c_0 - c_1 R_t + c_2 Y_t \]  \hspace{1cm} (1.3)
\[ G_t = G_o \]  \hspace{1cm} (1.4)
\[ X_t = X_o \]  \hspace{1cm} (1.5)
\[ M_t = f_0 + f_1 Y_t - f_1 Kurs_t \]  \hspace{1cm} (1.6)

LM Equation Block

\[ M_S = M_d \]  \hspace{1cm} (1.7)
\[ M S_t = \bar{M} s_0 \]  \hspace{1cm} (1.8)
\[ M d_t = h_0 - h_2 R_t + h_3 Y_t \]  \hspace{1cm} (1.9)
**BOP Equation Block**

\[ BoP_t = j_0 + j_1 KURS_t + j_2 DIFFR_t \]

(1.10)

**IS Curve Equation Model**

Based on each result of the equations previously done which form IS, the IS equation could then be calculated as follows:

\[ Y_t = C_t + I_t + G_t + X_t - M_t \]

\[ Y_t = C_t + c Y_t + I_t + X_t - M_t - \text{bInt}_t + k \]

\[ Y_t = C_t + c Y_t + I_t + X_t - M_t + \text{zKurs}_t \-
\]

\[ Y_t = \frac{1}{1-c+m} \{ C_0 + I_0 + G^0 + X^0 - M_0 + \text{zKurs}_t \-
\]

\[ Y_t = \frac{1}{1-c+m} \{ C_0 + I_0 + G^0 + X^0 - M_0 + \text{zKurs}_t \-
\]

(1.11)

LM Curve Equation Model

Balancing Money market when \( Ms = Md \), therefore the LM equation is:

\[ Ms^0 = Md_o + k Y_t - h \text{Int}_t \]

\[ -k Y_t = Md_o - h \text{Int}_t - Ms^0 \]

\[ k Y_t = Ms^0 - Md_o + h \text{Int}_t \]

(1.13)

if \( B = Ms^0 - Md_o \) that:

\[ Y_t = \frac{1}{k} (B + h \text{Int}_t) \]

\[ Int_t = \frac{1}{h} (k Y_t - B) \]

(1.14)

(1.15)

In which:

\( Ms \) : Supply of money;

\( Md \) : Demand of money;

\( k \) : Coeffisien variable GDP at demand of money equation;

\( h \) : Coeffisien variable interest rate at demand of money equation

Balance IS-LM

IS-LM balance that happen when IS curve crossed with LM curve, could then be calculated as follows:

\[ Y_t = \alpha (A - \text{bInt}) \]

\[ Int_t = \frac{1}{h} (k Y_t - B) \]

\[ Y_t = \alpha \left[ A - \frac{b}{h} (k Y_t - B) \right] \]

\[ Y_t = \frac{ha}{h+kb} A + \frac{ba}{h+kb} B \]

**Fiscal Policy Multiplier**

Fiscal policy multiplier indicates to what extent the increased government expenditure can change equilibrium income level, assuming that the monetary policy is constant. In reference to equations 3.12 and 3.16, the Fiscal Policy Multiplier (MKF) in Indonesia could then be calculated as follows (Dornbusch, 1994):

\[ MKF = \frac{ha}{h+kb} \]
Monetary Policy Multiplier

Monetary policy multiplier shows to what extent the distributed number of real money can increase the equilibrium income level, without any fiscal policy change. In reference to equations 3.13 and 3.16, the Fiscal Monetary Multiplier (MKF) in Indonesia could then be calculated as follows:

\[ MKf = \frac{b\alpha}{n+k\beta} \]

RESULTS AND DISCUSSION

Fiscal policy

In fiscal policy, the main indicator is the State Budget (APBN) (Raharja and Manurung, 2001). During the budget of 1997/1998 the increase of government spending was higher 63% than the previous year. It was the government policy to affect economic growth by which, at that time, it was the early beginning of the economic crisis. The same thing happened in a different budget that was in 2002/2003 which reached 85% higher than the previous year.

The increase of government spending will increase economic activity, but the threat of instability in the economy in the form of threat of inflation is probably difficult to avoid. APBN which is regarded as the locomotive of economic growth is possible to cause it because it is done based on the belief that the government economic sector is needed for the implementation of trilogy development, namely: growth, equity, and stabilization. This trilogy is the realization of the theory of fiscal functions, namely the allocation of public goods (allocation), income distribution (distribution), and economic stabilization (stabilization).

Monetary policy

The crisis that occurred in Indonesian economy in 1997 led the government to increase the spending. The cost of banking restructuring and real sector recovery had led the government to increase the budget deficit by considering that the limited resources funds owned. Alternatively, the budget deficit considerably increased after the 1997 crisis, especially in the period of state budget in 1999 which reached Rp 114585 billion. On the other hand, Bank Indonesia applied contractive monetary policy to fend off inflation and control the money supply. At that time, the recorded interest rate highly increased, that was about 25% in 1998 and an average of 22% in 1999.

On the other hand, appropriate fiscal policy does not give results as wished, because it is not only fiscal policy which can affect the economy of Indonesia, but also monetary policy which is controlled by the monetary authority. Fiscal and monetary policies in many cases often cause the opposite effect or crowding out. As a result, it becomes necessary to have good and appropriate coordination mechanism in order the goals of economic development that have been set can be achieved.
the stability of exchange rate of rupiah in which there is an understanding of price stability and the stability of exchange rate of rupiah.

To achieve the above-mentioned objectives, recently, Bank Indonesia still applies the monetary policy framework which is based on controlling the money supply. Hence, Bank Indonesia has sought to control base money as the operational target of monetary policy.

With the controlled amount of base money, the growth in the money supply; M1 and M2, are also expected to control. Furthermore, with the controlled money supply, it is expected that the aggregate demand for goods and services are always moving in a balanced amount to the national production capabilities, so prices and exchange rate can move stably.

By using the monetary policy framework as described above, Bank Indonesia in the early period of economic crisis, especially during 1998, applied a tight monetary policy to restore monetary stability. The tight monetary policy is reflected in the annual growth of the indicative target money supply which was continually pressed from the highest level of 30.13% in 2000 to 9.58% in 2001. The tight monetary policy has to be done because in that period of inflation expectations in society was very high and the money supply was rapidly increased.

During the high inflation expectations and the level of the risk of holding rupiah, the effort to slow the rate of growth of money supply have supported domestic interest rates sharply. Further, high interest rates are needed in order to make people willing to hold rupiah and not spend it on things that are not urgent and come from foreign currency.

The monthly interest rate of SBI which had been the benchmark for the banks continually decreased from the highest level of 35.52% in 1998 to 7.43% at the end of April 2004.

**Classic Assumptions**

Prior to performing any regression, the model ought to be tested first against classic assumption deviation. Such testing is performed to obtain a BLUE estimator. The classic assumption tests which need to be done are autocorrelation, heteroscedasticity and multicollinearity tests.

For the heteroscedasticity, the test used is White Test. This White test is different from several other methods to test heteroscedasticity because it does not require any assumption about the existence of its residual normality (White, 1980 in Primastuti, 2008).

The autocorrelation test in this research uses LM test method. This test is capable of accommodating a non-stochastic independent variable in a regression model.

For its multicollinearity, this study uses auxiliary regression method where in performing the regression, all of its variables are interchangeably used as dependent variables.

Based on the test results as shown in table 1, it is found that all models are multicollinearity free. Heteroscedasticity and autocorrelation affect only money demand and import equations, and other equations are autocorrelation free and homoscedasticity. To remove heteroscedasticity and autocorrelation, a recovery needs to be done using Newey-West HAC method, in order for the equations to be free from autocorrelation and heteroscedasticity.
Table 1. Results of Assumption Tests

<table>
<thead>
<tr>
<th>Structural Equation</th>
<th>Autocorrelation Test</th>
<th>Heteroscedasticity Test</th>
<th>Multicollinearity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ct</td>
<td>0.4831</td>
<td>0.0872</td>
<td>Unaffected</td>
</tr>
<tr>
<td>Mt</td>
<td>0.00000</td>
<td>0.0009</td>
<td>Unaffected</td>
</tr>
<tr>
<td>Mdt</td>
<td>0.123</td>
<td>0.0000</td>
<td>Unaffected</td>
</tr>
<tr>
<td>BoPt</td>
<td>0.0000</td>
<td>0.8442</td>
<td>Unaffected</td>
</tr>
</tbody>
</table>

### Equation Analysis

**a) Consumption Equation**

Herewith the result of the Consumption equation analysis, below:

\[
CT = 36.398,3720032 + 0.521745369338*YT - 0.0665073320915*T_0 \\
(4,799) \quad (21,185) \quad (-1.849)
\]

\[R^2 = 0.99 \quad F_{stat} = 21680.83\]

The \(Y_t\) coefficient at 0.52 means that the Marginal Propensity to Consume (MPC) was at 52%. This figure is quite relevant to the developing countries like Indonesia that more than half of their income are used for consumption. The results of this study are in line with research conducted by Noor Cholish (2007) amounted to (62%), Abbullah Suparman (1990) that the MPC of his research results was at 47% and research results of Teguh Santoso's (2009) by 54%.

In this study, tax affects national income at the level of \(a = 10\%\). It means that the tax increase will reduce consumption. The higher the taxes that are imposed by the government will decrease the amount of its disposable income and also will reduce the amount of consumption goods and services.

Based on the regression equation results, \(C\) score can be calculated as follows:

\[C_t = c_0 + c_1(Y_t - T_0)\]

\[C_t = 36.398.37 + 0.52Y - 0.066 (T_0)\]

\[C_t = 28.593.02 + 0.52Y\]

**b) Investment Equation**

Herewith the result of the investment regression equation, below:

\[
IT = -27.097,0338064 - 445.963982543*RT + 0.302072587841*YT \\
(-3.658) \quad (-1.084) \quad (23.993)
\]

\[R^2 = 0.96 \quad F_{stat} = 872,0166\]

The \(T\)-test applied for the variable of interest rate (\(R_t\)) had no effect on investment in \(a = 5\%\). Although it has no effect on the investment, the results of regression equation was accordance with the theory. The results of this study are in line with research of Yuhdi (2002) and Teguh Santoso (2009) who found that the variable interest rate can not influence the level of investment. Investors do not only
consider the interest rate but also the condition of macro-economic overall.

Meanwhile, the variable of national income (Yt) gave positive effect on investment in the level of α = 10%. This result is in accordance with the theory of Keynes that the national income has positive effect on investment. Moreover, the higher someone’s income, so the investment which has done does. Again, for some people, investment is a form of precaution and speculation to get profit at once.

Based on the regression equation results, I score can be calculated as follows:

\[ I_t = I_o - b_1 R_t + b_2 Y_t \]
\[ I_t = 27.097.03 - 445.96 R_t + 0.30 Y_t \]

c) Government Expenditure Equation

The government expenditure score is taken from the mean government expenditure from 1998 quarter I through 2014 quarter II, i.e. amounting to Rp 36.782,08

\[ G_t = G_o = 36.782,08 \]

d) Export Equation

The export score is taken from the mean export from 1998 quarter I through 2014 quarter II, i.e. amounting to Rp 214.466,09

\[ X_t = X_o = 214.466,09 \]

e) Import Equation

Herewith the result of the import regression equation, below:

\[ MT = -138.796,591431 + 0.414313810628*Y_t + 11.4999942982*KURST \]
(-2.917) (16.141) (1.983)
\[ R^2 = 0.88 \]

\[ F_{stat} = 260.0787 \]

If the national income increases, the tendency for importing is high. The increase income means having ability to buy imported goods which is much greater than the assumption of other factors, and is deemed to be constant.

Variable of exchange rate which affects imports is not in accordance with the theory. It is because of most of industries in Indonesia use imported raw materials. It is confirmed by BPS data about the import goods according to the category of use (Figure 4.8). Figure 4.8 shows that the imports which are carried out by Indonesia are mostly in the form of raw materials and auxiliary goods industry.

Based on the regression equation results, M score can be calculated as follows:

\[ M_t = m_o + m_1 Y_t - m_2 KURST_t \]
\[ = -138.796,6 + 0.41 Y_t + 11,49 KURST_t \]

**IS Equation**

Based on each result of the equations previously done which form IS, the IS equation could then be calculated as follows:

\[ Y_t = C_t + I_t + G_t + X_t - M_t \]
\[ Y_t = 28.593,02 + 0.52 Y_t + (-27.097,03 - 445.96 R_t + 0.30 Y_t) + 36.782,08 + 214.466,09 - (-138.796,6 + 0.41 Y_t + 11,49 KURST_t) \]
\[ Y = 663.628,41 - 19,47 KURST_t - 755,86 R_t \]

From the equation above, it is found C, I, G and X multipliers are

\[ \frac{1}{0.59} = 1.69 \]

As to M multiplier, it is

\[ \frac{-1}{0.59} = -1.69 \]
Source: Central Statistic Bureau, processed.

**Figure 2.** Import by the goods categorizing by 1998-2014 (Million Dollar).

### Transformation of Equation of LM Equation Block

**a) Money Supply Equation**

The money supply score is taken from the mean money demand from 1998 quarter I through 2014 quarter II, i.e. amounting to Rp 1,600,956.64

\[ M_s_t = M_{s_0} = 1.600.956,64 \]

**b) Money Demand Equation**

Herewith the result of money demand regression equation, below:

\[ M_d_t = -482.938,4 + 1,80Y_t - 344,49R_t \]

\[ (8,447) \quad (18,988) \quad (-0,256) \]

\[ R^2 = 0,89 \]

\[ F_{stat} = 263,9367 \]

When the income increases then the demand for money also increases. This is in accordance with the theory of JM.Keynes that the demand of money is influenced by the level of income. The higher income level, the transaction motive and precaution have also increased and led to the increasing demand of money.

Variable of interest rate did not affect the demand of money. The results of this study reject the hypothesis Keynes. The results of this study was caused by the Indonesian society which are middle class society that their monetarization level is not quite high and some of their money are for consumption.

As to the money demand equation, it is as follows:

\[ M_d_t = M_{d_0} + hY_t - kR_t \]

\[ M_d_t = -482.938,4 + 1,80Y_t - 344,49R_t \]

**LM Equation**

Based on each result of the equations previously done which form LM, the LM equation could then be calculated as follows:

\[ M_s = M_d \]

\[ 1.600.956,64 = -482.938,4 + 1,80Y_t - 344,49R_t \]

\[ Y_t = 1.157.719,46 + 191,38R_t \]

From this equation, the multiplier of distributed number of money could be found at \[ \frac{1}{1.80} = 0.55 \]
Transformation of Payment Balance Equation

\[ \text{BOP} = -32.388,4215 + 3,26870017861 \times \text{KURST} + 26,1053327272 \times \text{DIFFRT} \]

\[-4.039 \hspace{1cm} 3.814 \hspace{1cm} 0.443 \]

\[ R^2 = -0.35 \]
\[ Fstat = 7.678051 \]

The T-test for the variable of exchange rate gave positive effect and had significant at \( \alpha = 5\% \) toward the balance of payments. Besides, the differentiation variable of SBI interest rate and Libor had no effect on the balance of payments. Even though the differentiation in interest rates did not affect the balance of payments, according to the sign test it was already accordance with the theory.

If the value of the rupiah towards the US dollar decreased, the prices of domestic goods according to abroad consumers are cheaper than the current exchange rate when it is appreciated. Abroad consumers will increase the amount of consumption of goods and services produced by Indonesia. Therefore, exports will increase and the balance of payments will be surplus, assuming ceteris paribus.

The differentiation variable of interest rate did not affect the balance of payments since foreign people do not only consider the interest rate given by Indonesia when they want to invest their funds in Indonesia, but the factor of political stability and security are also considered.

As to the score of payment balance, it is as follows:

\[ \text{BOP} = j_0 + j_1 \text{KURST} + j_2 \text{DIFFRT} \]
\[ \text{BOP} = -32.388,54 + 3,27 \times \text{KURST} + 26,10 \times \text{DIFFRT} \]
\[ \text{KURST} = 9.904,75 - 7.98(9.44) \]
\[ \text{KURST} = 9.829,42 \]

IS-LM Balance

Based on the IS and LM equations, the goods market and money market balance, i.e. national income and interest rate, could then be calculated as follows:

\[ \text{IS} = \text{LM} \]
\[ Y = Y \]
\[ 663.628.41 - 19.47 \times \text{KURST} - 755.86 \times R_t = 1.157.719,46 + 191.38 \times R_t - 947.24 \times R_t = 494.091,05 + 19.47(9.829.42) \]
\[ R_t = -723,65 \]
\[ Y = 663.628,41 - 19.47 \times \text{KURST} - 755.86 \times R_t \]
\[ Y = 663.628,41 - 19.47(9.829.42) - 755.86(-723.65) \]
\[ Y = 1.019.227,69 \]

Fiscal Policy Multiplier

Based on the research results, the amount of fiscal policy multiplier (MKF) could be calculated as follows:

\[ \text{MKF} = \frac{h \alpha}{h + k \beta} \]
\[ = \frac{344.49 \times 1.69}{(344.49 + 1.80) \times (755.86 \times 1.69)} \]
\[ = \frac{582.18}{(346.29) \times 1277.40} \]
\[ = 0.001316 \]

This 0.001316 means that if the government expenditure is added with one unit, the national income will increase at 0.001316 times the sum of government expenditure assuming that there is no change to the monetary policy.

Monetary Policy Multiplier

Based on the research results, the amount of monetary policy multiplier (MKM) could be calculated as follows:

\[ \text{MKM} = \frac{b \alpha}{h + k \beta} \]
\[ = \frac{755.86 \times 1.69}{(344.49 + 1.80) \times (755.86 \times 1.69)} \]
\[ = 0.0028 \]
This 0.0028 means that if the distributed number of money is added with one unit, the national income will increase at 0.0028 times the sum of distributed number of money assuming that there is no change to the fiscal policy.

**The Effectiveness of Policy Analysis**

The monetary policy multiplier (0.0028) is greater than the fiscal policy multiplier (0.001316), hence, the monetary policy is more effective in influencing the economic growth rate or GDP increase. It is also confirmed by the fact that the quantity level slope of IS curve model is elastic and the LM curve inclination level is less elastic. Since the focus of policy objective is mainly addressed to GDP growth, it can then be concluded that monetary policy is more effective in influencing Indonesia’s economic growth than the fiscal policy.

The fact that monetary policy is more effective as compared to the fiscal one confirms Mundell-Fleming’s theory. This Mundell-Fleming’s theory is that an open, small economy with floating exchange rate system is more effective to use monetary policy than fiscal policy. Indonesia is a small, open country with floating exchange rate system, thus, the results of this research confirm Mundell-Fleming’s findings.

Research on the effectiveness of fiscal and monetary policies in another country finds that monetary policy is more effective. Noor Cholish, using simple IS-LM model and ECM analysis technique, finds that monetary policy is more effective compared to fiscal policy. The fiscal policy multiplier is 0.6 and the monetary policy multiplier is 2.6.

Similar research is also conducted by Teguh Santoso. Teguh Santoso’s research results confirm Mundell-Fleming’s hypothesis that monetary policy is more effective than fiscal policy. This can be seen from how significant the money demand variable is to national income at α=5%, while the government expenditure is significant at α=10%.

Another study is conducted by Barro (1991). He uses a number of models with different combined variables and simple regression analysis and cross section data covering 98 countries for his observation during 1960-1985. He suggests that the government consumption expenditure (fiscal policy) has negative impact on both economic and investment growths. Using St. Louis model and making the United States his research site, Andersen and Carlson (1970), Carlson (1978), Hafer (1982), Dewald and Marchon (1978) in Triyono and Yuni Prihadi Utomo (2004) states that monetary policy is more dominant compared to fiscal policy instrument. Likewise, the research conducted to Canada, West Germany, France, Italy, Japan and England shows a result which place monetary policy as more determinant over economic growth than fiscal policy instrument.

Despite its results which indicate that monetary policy is more effective than fiscal policy in influencing national income increase, a little bit closer look at the calculation results of each policy’s multipliers, either monetary policy (0.0028) or fiscal policy (0.001316), would show that the difference of such multipliers is not that great. This is because in the case of this research, which takes the period of 1998 quarter I through 2014 quarter II, the policies taken by the Government could not be separated from the expansive fiscal policies. During that period, several economic phenomena occurred which influenced Indonesia’s economy.

In 1997, Indonesia underwent a formidable economic crisis. Its exchange rate which was previously Rp. 2,356.6 per United States Dollar in 1996 quarter IV depreciated into
Rp 12,252.1 per United States Dollar in quarter III of 1998. The efforts made by BI to save the economy was to change the exchange rate system into the free, floating one, increasing BI rate. On one hand, the Government through the Department of Finance increased its expenditure in order to drive Indonesia’s economy to a more stable direction. These policies were contradictory, i.e. expansive fiscal policy and contractive monetary policy. It was then unsurprising that a crowding out occurred in 1998.

In 2005 the Government reduced fuel and oil subsidy, then in 2008 when a global crisis took place, the Government contributed to it through its fiscal stimulus. Therefore, it is just predictable that the difference between fiscal and monetary multipliers is not that great because the Government as the fiscal authority is fairly active in maintaining the economy. However, it is important to prevent the fiscal and monetary policies from conflicting one another. When the fiscal and monetary policies are contradictory, Indonesia’s macroeconomic objective could then never be realized.

**CONCLUSION**

Based on the research objective and data analysis, it could then be concluded as follows: monetary policy is more effective than fiscal policy. It can be seen from the monetary policy multiplier at 0.0028% where it is higher than the fiscal policy multiplier at 0.001316% and confirmed by the fact that the quantity level slope of IS curve model is elastic and the LM curve inclination level is less elastic. The research results confirm Mundell-Fleming’s theory which states that for an open, small economy with floating exchange rate system, it is more effective to use monetary policy than fiscal policy.

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