THE RISE OF CHINA AND ITS IMPLICATION ON INDONESIA-UNITED STATES TRADE

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ABSTRACT

The purpose of this study is to analyze the impact of Chinese renminbi exchange rate againts the United States (US) dollar, on the bilateral export of Indonesia to the US. Johansen cointegration test and Ordinary Least Square (OLS) regression are employed to examine one impact. This research is limited only in the long-run aspect. The Johansen test shows that there are long-run relationships amongs variables involved such as GDP, Real Exchange Rate (RER), RER Volatility, and dummy variables. Empirical test result shows that there are positive significant impacts of the Chinese renminbi on the Indonesia's exports to the US, implying that the relationship between Chinese exports and Indonesia export are complementary in the US market.

Keywords: Indonesia, China, the United States, renminbi, cointegration, OLS

INTRODUCTION

In the 1950s-1960s, the economic growth in some Asian countries region grew rapidly up to 8-9 percent per year. This situation had caused some Asia countries such as Taiwan, South Korea, Singapore and Hongkong to be called as New Industrializing Countries (NIC) (Kuncoro, 1997:321). Nevertheless, entering the 1990s, Cina has become as a new member of NIC in East Asia.

The People's Republic of China is a communist country in East Asia founded in 1949 by Mao Zedong. Since being found 60

years ago, China has been commanded through strictly political and planned economic system based on public ownership by the Communist China Party (CCP). After the Mao's regime was over, China was introduced to the new economy management. Particularly, in the end of 1978, under the aegis of Deng Xiaoping, China has been transformed from a centrally planned economy to a market economy. However, they still retain communism ideology as their political system (Ishihara, 1993).

To encourage productivity, the government of China has gradually introduced new management system focusing on international trade as the "growth engine" to attain high economic performance. In 1994, the government devalued their currency and applied

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fixed exchange rate regime in order to maintain the value of Chinese renminbi at a constant nominal level. It was pegged by 8.704 againts the US dollar (US\$). However, entering the year of 2005, China government revalued their currency by about 2.1 percent to 8.11 againts the US \$. It was primary caused by the demand from US government. Furthermore, to accelerate trade volume and reduce its international barriers, the government of China tried to be as the new member of World Trade Organization (WTO). In 2001, then, China has successfully entered to the WTO as a new member. This accession was widely expected to give further impetus to the country's export, Foreign Direct Investment (FDI) and overall growth prospects (Rawski, 2009; Yamazawa and Imai, 2001). In addition, to facilitate FDI dealings and other foreign investments in China's region, the government of China then built more than 2000 Special Economic Zones (SZE) surrounding China Mainland (Widodo, 2008).

As the result of these new policies, during the periode of 1980 to 2000 the Chinese international trade was phenomenally increasing, from about US\$19.30 to US\$249.2 billion, moreover, the share of China in total world exports also expanded from 0.96 percent to 3.9 percent. Then, in 1990s Cina has become the biggest garment producer in the world, with twenty percent of world's garment produced by China (Yamazawa and Imai, 2001). Thus, in the early 2000, it was not surprising that China had become the seventh largest international exporter, following the U.S., Germany, Japan, France, United Kingdom, and Canada (Yue, 2001). By 2002, China was the biggest economy in Asia after Japan and the second largest in Purchasing Power Parity (PPP) terms in the world behind the US, the sixth biggest merchandise trading nation in the world, the world's twelfth largest exporter of commercial services, and the largest recipient of foreign direct investment (FDI) among developing countries. Those

were the points which encouraged became China as the new "rising star" of economic power in Asia and has being given various names such as global factory, the world's manufacturing centre and export processing zone of the world (Rajan, 2003)².

In the contrary, many economists and competitors firmly believe that the key factor of the China's strengthened international competitiveness is caused by the pegging of renminbi againts the US\$. This inference is based on the study of Funke and Rahn (2005) that argues the main purpose of the China goverment devalued its currency was to maintain Chinese vibrant exports artificially cheaper than exports goods from the US, which has lead to job losses in America, Japan, and other more sluggish economies in the region. Furthermore, Baak (2007 and 2005) concluded that the depreciation of renminbi turned out to decrease both Korean exports to Japan and the US exports to China.

The transmission can be explained as follow: the price of Chinese export goods is cheaper due to the devaluation of renminbi, so that it causes products from other countries will be relatively more expensive.

In the case of Indonesian trade, for more than two decades (1987-2008), the growth of Indonesian exports to the US increased up to 7.12 percent. As a comparison, the growth of Indonesian exports to the US was much lower than Chinese exports which was about 25.2 percent (Figure 1).

² China's merchandise exports increased from about US\$10 billion per annnum in the late 1970s to US\$326 billion in 2002 or about 5 per cent of total world exports, which making it the sixth largest trading nation in the world (Funke and Rahn, 2005).



Source: DOTS. Authors' calculation.

Figure 1. The Comparison of Total of Exports Value of China and Indonesia to The US

As an additional information, the US is the major trading partner for both of Indonesia and China. Moreover, the implication of ASEAN-China Free Trade Area (ACFTA) becomes the new concern of the Government of Indonesia which has a corellation to the future of its international trade. Teh (1999) states that China is the main competitor for ASEAN countries in international trade. Therefore, a specific study is needed to explore the relationship and position of China and Indonesia trade in the case of the US market.

According to the heated debate among the economists in the context of the renminbi side effect and the importance of the issue, this research is aimed to deeply analyze the impact of both devaluation and real exchange rate of the Chinese renminbi on the exports of Indonesia to the US, particularly in the long-run³. The rest of this paper is organized as follows. Part 2 exhibits research methods comprising the econometric model and data. Part 3 shows the empirical result analysis. And finally, conclusions is presented in Part 4.

RESEARCH METHOD

1. The Econometric Model

The most important issue of this research is how to determine both impacts devaluation and real exchange rate of Chinese renminbi on the trade of other East Asian countries, particularly on the exports of Indonesia that has rarely been explored⁴.

Based on the work and typical spesification of other studies as in Baak (2007, 2006 and 2005), Arize and Osang (2000), Widarjono (2005), and Funke and Rahn (2005), we set up an econometric model for the long term equilibrium relation between exports and all independent variables as follows:

$$Y_{ijt} = \beta_0 + \beta_1 g_{jt} + \beta_2 p_{ijt} + \beta_3 \sigma_{ijt} + \beta_4 p_{cjt} + \beta_5 D_{ijt} + \varepsilon_{ijt}$$
(1)

³ In the context of Chinesse renminbi real exchange rate against U.S. dollar.

⁴ Baak (2007) examined that some studies explored the impact of the renminbi on Chinese trade itself. Zhang (2001), Chou (2000), Tang (2003), Wang and Zhang (2003) investigated the effects of the Japanese yen depreciation on the Chinese exports. While, Battacharya, Gosh and Jansen (2001) determined whether the emergence of China hurt Asian exports.

All variables in the model are in natural logarithm form. Subscript t symbolizes time. i represents exporting country i.e. Indonesia, and j denotes importing country, i.e. the United State. Meanwhile, c is defined as a competitor of i's country in the market of country j, that is China. The variables are computed as follows:

• *Y_{ijt}* is defined as country *i*'s exports to *j*. It is formulated as follows (Baak, 2007):

$$Y_{ijt} = \ln \left(\frac{EX_{ijt}}{EXUV_{it}} \right) \times 100$$
 (2)

Where, Y_{ijt} denotes the log value of the real exports of country *i* to country *j*. EX_{ijt} is the quarterly nominal exports of country *i* to country *j*. $EXUV_{ijt}$ represents the price index of country *i*. Unfortunately, the price index from Indonesia are incomplete, thus real exports are calculated using the following formula (Baak, 2006):

$$Y_{ijt} = \ln \left(\frac{IM_{ijt}}{IMUV_{it}} \right) \times 100$$
 (3)

Where IM_{ijt} is the quarterly nominal imports of US from Indonesia, which is equivalent (with marginal differences) to the quarterly nominal exports of Indonesia to the US. While, $IMUV_{it}$ denotes the import unit value index of the US.

• g_{jt} is the log value of real GDP from importing country, i.e. the US. In many literatures, GDP is commonly used as a proxy to measure economic activities in such a country.

Real GDP is explained, as follows (Mankiw, 2009):

$$g_{jt} = ln \left(\frac{GDP Nominal}{GDP Deflator} \right)$$
 (4)

p_{ijt} and *p_{cjt}* symbolizes the log value of real exchange rate. Specifically, *p_{ijt}* represents the real exchange rate of an exporting country's currency againts importing country's currency. While, *p_{cjt}* is defined as the

real exchange rate of country c's againts importing country j's currency.

The real exchange rates are computed in the conventional ways, as follows (Baak, 2005):

$$p_{ijt} = \ln\left(E_{ijt} \times \frac{CPI_{jt}}{CPI_{it}}\right)$$
(5)

Where E_{ijt} is the quarterly nominal exchange rate of country *i* againts country *j* and CPI_{it} denote the quarterly consumer price index of an exporting country *i* and an importing country *j*, respectively. According to the formula above, the real exchange rate of country *c* is also calculated in the same way by replacing the subscript *i* into *c*.

• σ_{ijt} represents the log value of real exchange rate volatility. Specifically, the real exchange rate volatility is determined with the natural logarithm of the absolute quarterly standard deviation of monthly real exchange rate, as follows⁵:

$$\sigma_{ijt} = \ln \left| \sqrt{\frac{1}{n-1} \sum_{k=tm}^{tn} [RER_{ijk} - \overline{RER_{ijk}}]^2} \right|$$
...(6)

Where RER_{ijk} denotes the monthly real exchange rate, $\overline{RER_{ij}}$ is the quarterly average of monthly real exchange rates and *k* is the index of the months in a quarter. Some empirical studies have shown that real exchange rate volatility may have either positive or negative influences on trade,

⁵ The equation above is a correction of formula which had been employed by Baak (2007), as follows:

$$\sigma_{ijt} = \ln\left(\sqrt{\frac{1}{n-1}\sum_{k=tm}^{tm} [RER_{ijk} - \overline{RER_{ijk}}]^2}\right)^2$$

According to the equation of Baak (2007), there is a possibility to compute negative and/or zero value from the standard deviation equation above. In contrast, it is impossible to be calculated. Thus, absolute brackets are needed to be added to correct in Baak's formula.

depending on various economic and institutional environment. However, Baak (2005 & 2006) hypothesizes that if the economic agents are moderately risk averse, it is generally expected that the impact of real exchange rate volatility will be negative, and vice a versa if the economic agents are moderately risk takers.

D_{ijt} represents *dummy variable*, which is employed to detect the impact of Chinese renminbi devaluation on the dependent variabel, i.e. the real exports of Indonsia. *D_{ijt}* takes a value of 0 (zero) for 1987.Q1-1993.Q4 period (or before devaluation) and 1(one) 1994.Q1-2009.Q2 period (or after devaluation).

2. Data Sources

The span data used in this research is from the first quarter of 1987 to the second quarter of 2009. This research period has been selected to represent the real condition based on its empirical test result. Specifically, the data of Indonesia exports to the US and the US imports from Indonesia have been obtained from the *Direction of Trade Statistics (DOTS)* of the International Monetary Fund (IMF). Meanwhile, nominal exchange rate, Consumer Price Indices (CPI), GDP nominal and GDP deflator of the US were taken from the International Financial Statistics (IFS) of the IMF. Especially, in the case of China the CPI is provided by *National Bureau of Statistics of China* (NBSC).

THE EMPIRICAL RESULTS AND ANALYSIS

1. Unit roots test: ADF test

The first step to test cointegrating relationship is detecting the presence of unit roots in the variables included in equation (1) by employing Augmented Dickey-Fuller (ADF) test, both for the level and the first difference. The optimal lags length included in the tests are determined by the Aikake Information Criterion (AIC).

Based on the results of ADF test for the level, table 1 reports ADF statistics which shows that all of the variables are not stationary at the level. However, from ADF test for the first difference, all of test appears to reject the null hypothesis of a unit roots at all significance level, i.e. variables are integrated of order one, I(1), or stationary at the first difference.

2. Cointegration test

After employing ADF test for investigating the presence of unit roots in the level and

Variabel	Le	evel	First Differ	ence	
v al label	Lag	ADF	Lag	ADF	
Indonesia					
\mathbf{Y}_{ijt}	5	-1.537	5	-4.035*, I(1)	
g_{jt}	1	-1.954	1	-8.870*, I(1)	
p_{ijt}	3	-1.835	2	-6.808*, I(1)	
σ_{ijt}	1	-3.086	1	-9.275*, I(1)	
p _{cit}	1	-0.409	1	-7.988*, I(1)	

Table 1. ADF Unit Roots Test for The Level and The First Differences

Source: Calculated from IFS, DOTS and NBSC

(*) Denotes rejection of a unit root hypothesis based on Mackinnon's critical value at at the $\alpha = 1\%$, 5%, 10%.

The number in the brackets is the order of integration

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degree of integration in each of variable, cointegration test can be applied. As Granger said, test for cointegration could be thought of as a pre-test to avoid "spurious regression" situation. The presence of cointegrating relationship is appeared when there are two non stationary series, I(1), i.e. they have stochastic trends; but their linear combination is stationary, I(0). In short, the stationary linear combination cancels out the stochastic trends in the two series, which can be proven by checking the residuals from the regressions, which are stationary, I(0) (Gujarati, 2003: 822).

Because of the empirical model of equation (1) is a multivariate case, the presence of cointegration could be detected by applying Johansen cointegration test (Thomas, 1997: 438-443). The optimal lags length in Johansen test are chosen based on the VAR lag order selection criteria tests, which maximum lags length included in the tests are 8 (Tabel 2). In addition, if the I(1) variables involved are cointegrated, thus it is known that the OLS estimation are consistent (Thomas, 1997:428).

Under Johansen cointegration test procedures, table (3) reports its results. As can be seen, the result shows that both trace statistics and max-eigenvalue statistics confirm the presence of cointegrating vectors, implying the variables in equation (1.1) are cointegrated. According to the estimation of Error Correction Model (ECM) regression, the test result shows that the estimated coefficient of Error Correction Term (ECT) is negative and significant at the $\alpha = 1\%$, 5%, 10% (Table 4).

 Table 2. VAR lag order selection criteria

Country	Lag	LogL	LR	FPE	AIC	SC	HQ
Indonesia	8	98.636	5.563*	0.007*	-2.089*	-1.707*	-1.935*

* indicates lag order selected by the criterion

LR : sequential modified LR test statistic (each test at 5% level)

FPE : Final prediction error

AIC : Akaike information criterion

SC : Schwarz information criterion

HQ : Hannan-Quinn information criterion

Statistics	Но	r = 0	$r \leq 1$	$r \leq 2$	$r \leq 3$	$r \leq 4$
Statistics	H_{A}	$r \ge 1$	$r \ge 2$	$r \ge 3$	$r \ge 4$	$r \ge 5$
Indonesia						
Trace Statistic		113.6998**	71.50835**	45.04932*	23.95882	9.373907
(critical value 5%)		87.31	62.99	42.44	25.32	12.25
(critical value 1%)		96.58	70.05	48.45	30.45	16.26
Max-Eigen Statistic		42.19141*	26.45903	21.09050	14.58491	9.373907
(critical value 5%)		37.52	31.46	25.54	18.96	12.25
(critical value 1%)		42.36	36.65	30.34	23.65	16.26

Table 3. Johansen Cointegration Test

Source: Calculated from IFS, DOTS and NBSC

The asterisk (**)(*) denotes rejection of the null hypothesis of no cointegration at the 5% (1%) significance level, respectively.

Following the work of Baak (2007, 2006, and 2005), this studies examine that negative and significant value of the estimated ECT coefficient confirming the presence of one long-run relationship among the variables involved. In other words, this result shows long-run relationships among variables involved. As mentioned before, this study only focuses on the impact of Chinese renminbi on the bilateral exports of Indonesia to the US in the long run term, thus the short run impacts will be ignored.

Table (5) shows the result of the estimated coefficient of equation (1.1) using OLS. Dummy variable has a positive significant impact on on the bilateral export of Indonesia to the US. In other words, devaluation policy of renmimbi has positive impact on the Indonesia exports. Even more, depreciation of the Chinese renminbi proved to have positive impact on the exports of Indonesia to the US, implying that the products of Indonesia is complementary with Chinese products in the US market. Spesifically, a 1 percent increase in the exchange rate of the Chinese renminbi (i.e. a 1 percent depreciation in the value of the Chinese renminbi againts US dollar) increases Indonesia exports by about 0.24 percent.

The strong effect of renminbi on the bilateral Indonesia exports to the US has been causing insignificant impacts not only on the bilateral domestic real exchange rates but also on the domestic real exchange rates volatility of Indonesia rupiah. This inference is according to the renminbi real exchange rate coefficient which much higher than both of domestic real exchange rate and real exchange rate volatility. The similiar conclusion has been also found in the research conducted by Baak (2006) which was depreciation of renminbi has positive impact to Japan's export to U.S, but the real value and the real exchange rates volatility of yen do not have significant impact. In addition, according to the estimated coefficient, the real GDP of the US has

g_{jt}	\mathbf{p}_{ijt}	σ_{ijt}	p _{cjt}	Dijt	ECT
0.816	0.004	0.004	-0.212	-0.005	-0.409*
(1.324)	(0.003)	(0.497)	(-1.075)	(-0.263)	(-4.548)
0.224		F-statistic	3.947		
0.167		Prob(F-stati	istic)	0.001	
	<u>gjt</u> 0.816 (1.324) 0.224 0.167	g _{jt} p _{ijt} 0.816 0.004 (1.324) (0.003) 0.224 0.167	$\begin{array}{c cccc} \underline{g}_{jt} & p_{ijt} & \sigma_{ijt} \\ \hline 0.816 & 0.004 & 0.004 \\ \hline (1.324) & (0.003) & (0.497) \\ \hline 0.224 & F-statistic \\ \hline 0.167 & Prob(F-statistic) \\ \hline \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Table 4. Error Correction Term (ECT)

Source: Authors' calculation based on IFS, DOTS and NBSC Notes: Standard error in parantheses

The asterisk (*) indicate the rejection of the null hypothesis of a zero coefficient at the 5% significance level. According to the estimation of Error Correction Model (ECM) regression, the test result showed that the estimated coefficient of Error Correction Term (ECT) in Indonesia is negative and significant at the α =5%.

	С	g_{jt}	p_{ijt}	σ_{ijt}	p_{cjt}	Dummy	R^2	F-Stat	Prob (F-Stat)
Coeficient	3.393*	0.573*	0.114	0.007	0.244*	0.366*	0.935	24.23	0.000
Std.Error	(0.993)	(0.103)	(0.088)	(0.012)	(0.140)	(0.143)			

Table 5. OLS Estimation

Source: Calculated from IFS, DOTS and NBSC

The asterisk (*)(**) indicate the rejection of the null hypothesis of a zero coefficient at the 5% (10%) significance level, respectively

positive impacts on the exports of Indonesia confirming the imports merchandises from Indonesia are normal goods for the US citizens.

From those explanations, one primary point should be addressed is as complementary goods, the Chinese exports' position is much stronger than Indonesian exports. Therefore, the exports volume of Indonesia is depended on the value of renminbi. It may occur when Indonesia product exports of the is complementary product which also being produced in others China's countries partner. In this case, the point must be underlined is China is the major producer of those exports product, particularly in the US market.

CONCLUSIONS

The objective of this research is to examine the impact of Chinese renminbi on the exports volume between Indonesia and US in the long term. According to the estimation, both of devaluation and Chinese renminbi have significant impact to Indonesian exports. Therefore, the renminbi depreciation possess out positive impact to Indonesian real exports to the U.S. It means that there is a complementary relationship between commodity of Indonesia and China. Meanwhile, the real exchange rate and the volatility of real exchange rates Indonesian rupiah do not have significant impact. Based on estimated coefficient sign, the Indonesia bilateral exports to the US is dominated by the normal merchandise goods.

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