Empirical Analysis of Relationship between FPI and Nifty Returns

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Abstract

This study is an attempt to evaluate and analyze relationship between Foreign Portfolio Investors (FPI) and the Indian stock market returns. With the stable economy, better growth prospects, liberal government policies and many more profitable opportunities, India has become a hot destination for FPI investments. Thus, there is a need to study the impact of these investments on the market returns. Daily data of Foreign net investment and Nifty returns, for the period starting from January 2000 – December 2016 has been used for evaluating the presence of Feedback Trading among the Foreign investors. Granger Causality, ARIMA and GARCH have been used to establish the cause and effect relationship among the variables and test the presence of Feedback trading hypothesis. The results suggested that FPI were influenced by the Nifty returns but the relationship was not vice versa. FPIs box their investing decision on the previous period returns.

I. Introduction

THE STUDY OF behavior and investing pattern of Foreign Portfolio Investors’ (FPI), have gained much momentum in the past few decades. The main reason for this surge can be attributed to the growth in the emerging markets which made them an attractive destination for foreign investments. These emerging markets are dependent heavily on the foreign investment and thus researchers all over the world are trying to examine the impact of these foreign investments on the developing as well as developed economies.

FPIs play the important role in stock market even though their volume of trade is not much high in comparison to the individual investors or market participants. FPI are perceived to be information efficient participants and

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It can be concluded that there is existence of unidirectional causality from Nifty returns toward FPI net investments but not vice versa. The analysis showed that the FPIs were significantly influenced by the lagged market returns, which clearly suggests that the foreign portfolio investors follow the positive feedback trading. In other words, investors base their portfolio decision on contemporaneous and the returns in the previous days. It can also be suggested that foreign institutional investors are return chasers and momentum traders in the Indian stock market returns represented by Nifty returns (confirms with Misra (2012)). During our sample period, FPI net investment impact on Nifty returns is very negligible and significant only in sub sample 2 i.e. from September 2003 – December 2007. Thus in the current sample, FPI net investment is significant in explaining the variations in the Nifty returns but its magnitude as well as the coefficient is low.

VI. Conclusion

This study empirically examines the dynamics of institutional investments and stock market movements for the Indian equity market with a ARIMA GARCH Model using daily data spanning from 1st Jan 2000 to 31st December 2016. The analysis has been done to analyze the relation between FPI and Nifty returns along with their lagged terms. This relationship between portfolio investment activities and stock market behavior has been intriguing in many financial researchers as well as for the policy makers. Study concluded that FPI flows get affected by the nifty returns to greater extent as compared to effect of FPI flows on the nifty returns. It was seen that FPIs base their investing decision on the previous period returns. They also tend to follow their own investing pattern on the previous days. In other words, FPI net inflows dependence on equity market returns indicated daily return chasing behavior by the Foreign Portfolio Investors.

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