Long Run Relationship between Monetary Policy and Inflation in India

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Abstract
This study is an attempt to evaluate and interpret the monetary policy initiatives (MPS) of the Reserve Bank of India (RBI) for the Twenty five year period since 1991-92 to 2015-16. An important contribution of this paper is the evaluation of long run relationship between monetary policy variables and different measures of inflation. To evaluate long run relationship Engle-Granger co-integration process has been utilized. The results clearly indicate that wholesale price index (WPI) has long run relationship with money supply, whereas, consumer price index- industrial worker (CPI-IW) does not have long run relationship with money supply. Other important result of the analysis is that weighted average lending rate (WALR) does not share long run relationship with either WPI or CPI. So it is concluded that interest rate targeting to influence CPI may not work in India.

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Keywords : Monetary Policy; Interest Rate; Money Supply; Inflation; Co-integration; RBI; India

I. Introduction
BEFORE THE ECONOMIC liberalization monetary policy in India was confined only to accommodate fiscal and credit policy of the government. But, since 1991-92 monetary policy gradually got freed from fiscal considerations of the central government. Since then the RBI focused mainly on containing inflation as one of its key target, though it did not abandon its multiple goal approach. In February 2015, the government and the RBI signed an agreement, in which the RBI accepted its goal as only containing inflation rate in terms of the consumer price index (CPI) in a narrowly defined band. With this the RBI became officially an inflation targeting (IT) central

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From the empirical analysis it is clear that if $M_t$ and $M_s$ are considered as monetary variables then the monetary initiatives have long run impact on WPI measured inflation, whereas if WALR is considered as monetary variable then monetary policy does not have long run impact on WPI based inflation.

V. Conclusion

This paper examines the empirical relationship between monetary variables and inflation since the introduction of economic reform measures in 1991-92. The study becomes important in the backdrop of the RBI becoming the inflation targeting (IT) central bank.

The empirical analysis of this paper has been carried out for the timeframe of April 1991-92 to May 2015-16. This timeframe has been taken to capture the impact of changes in the monetary policy framework of the RBI. The Engle-Granger cointegration test has been used to draw the inference from the analysis.

Empirical results show that WPI has long run relationship with the both measures of money supply i.e. $M_1$ and $M_s$ and whereas CPI (IW) has does not have long run relationship with money supply. Other important result of the analysis is that WALR does not share long run relationship with either WPI or CPI. So it may be argued that despite of the financial and economic reforms, bank interest rates have not become an influential transmission route for monetary policy. At the same time it may also be argued that there is no empirical evidence of long run relationship between CPI and monetary policy variables. This might be due to the fact that around 52.0 per cent of CPI is comprised of food and beverages which by and large fell outside the RBI influence zone (for WPI this number is around 38.0 per cent).

References


