National Research Journal of Social Sciences
Volume-11, Issue-1, January-June 2026
PP: 763-769

ISSN: 2348-473X
Peer Reviewed & Refereed Journal (IF: 6.95)
Journal Website: www.nrjss.in

AN ANALYSIS OF THE RESERVE BANK OF INDIA'S MONETARY POLICY IN CONTROLLING INFLATION

Gangadhara R

Associate Professor
Vani Sakkare Govt. First Grade College, Hiriyuru

ABSTRACT

Inflation is one of the most significant macroeconomic challenges affecting economic stability, consumer purchasing power, and sustainable growth. The Reserve Bank of India (RBI), as the country's central bank, plays a crucial role in maintaining price stability through various monetary policy instruments; including the repo rate, reverse repo rate, Cash Reserve Ratio (CRR), Statutory Liquidity Ratio (SLR), and Open Market Operations (OMO). This study examines the effectiveness of the RBI's monetary policy in controlling inflation in India. Using secondary data collected from RBI publications, government reports, and international databases, the study analyzes inflation trends alongside changes in key monetary policy indicators. The research evaluates the relationship between policy measures and inflation outcomes and identifies the challenges faced by the RBI in achieving its inflation-targeting objectives. The findings are expected to contribute to a better understanding of the effectiveness of monetary policy in ensuring price stability and supporting sustainable economic growth in India.

Keywords: Monetary Policy, Inflation, Reserve Bank of India, Repo Rate, Inflation Targeting, Price Stability, Indian Economy

1. INTRODUCTION

Price stability is a fundamental objective of macroeconomic policy because persistent inflation reduces purchasing power, increases uncertainty, discourages investment, and adversely affects economic growth. In India, the Reserve Bank of India (RBI) is responsible for formulating and implementing monetary policy with the objective of maintaining price stability while supporting economic growth.

Over the last decade, the RBI has adopted an inflation-targeting framework that emphasizes maintaining consumer price inflation within a specified target range. To achieve this objective, the RBI employs several monetary policy instruments; including adjustments to the repo rate, reverse repo rate, Cash Reserve Ratio (CRR), Statutory Liquidity Ratio (SLR), and Open Market Operations (OMO). These instruments influence liquidity, borrowing costs, investment, and aggregate demand, thereby affecting inflation.

Recent economic developments—including the COVID-19 pandemic, global supply-chain disruptions, geopolitical tensions, and commodity price volatility—have created new challenges for monetary policy. These developments highlight the importance of evaluating the effectiveness of the RBI's monetary policy in managing inflation while sustaining economic growth.

This study aims to analyze the role and effectiveness of the RBI's monetary policy in controlling inflation in India by examining recent policy measures and inflation trends.

2. RESEARCH OBJECTIVES

1. To examine the role of the Reserve Bank of India in controlling inflation.
2. To analyze the effectiveness of monetary policy instruments in managing inflation.

ISSN: 2348-473X
Peer Reviewed & Refereed Journal (IF: 6.95)
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3. To study the relationship between changes in the policy repo rate and inflation in India.
4. To identify the challenges faced by the RBI in maintaining price stability.
5. To suggest policy recommendations for improving monetary policy effectiveness.

3. REVIEW OF LITERATURE

A review of the existing literature provides a theoretical and empirical foundation for understanding the relationship between monetary policy and inflation. Previous studies have examined the effectiveness of central bank policies, inflation-targeting frameworks, and the transmission mechanism of monetary policy in both developed and developing economies.

Mishkin (2019) argued that maintaining price stability is the primary objective of modern central banks because stable prices encourage sustainable economic growth, reduce uncertainty, and improve investor confidence. The study emphasized that inflation targeting has become an effective monetary policy framework in many countries.

Patra (2020) examined India's monetary policy framework and highlighted that the adoption of flexible inflation targeting strengthened the credibility of the Reserve Bank of India. The study found that transparent policy communication and timely adjustments in the policy repo rate improved inflation expectations.

Rajan (2021) discussed the challenges of implementing monetary policy in emerging economies. The study noted that inflation in India is influenced not only by monetary factors but also by supply-side shocks, food prices, and global commodity markets. Therefore, monetary policy alone cannot fully stabilize inflation during periods of external disturbances.

International Monetary Fund (2022) reported that central banks around the world adopted tighter monetary policies following the increase in global inflation after the COVID-19 pandemic. The report emphasized that policy interest rate increases helped moderate inflation, although the effects varied across countries depending on domestic economic conditions.

Reserve Bank of India (2023) highlighted that the Monetary Policy Committee continued to prioritize price stability while supporting economic growth. The report indicated that policy decisions were based on inflation projections, liquidity conditions, and domestic as well as global macroeconomic developments.

World Bank (2024) observed that inflation remains one of the major macroeconomic challenges for developing economies. The report emphasized that effective coordination between monetary policy and fiscal policy is necessary to achieve long-term economic stability.

Overall, the literature suggests that monetary policy plays a significant role in controlling inflation. However, its effectiveness depends on several factors, including the credibility of the central bank, inflation expectations, fiscal discipline, global economic conditions, and supply-side developments. Previous studies also indicate that India's inflation dynamics require continuous policy adjustments because of structural changes in the economy and external economic shocks.

4. RESEARCH GAP

The existing literature provides substantial evidence regarding the relationship between monetary policy and inflation. However, several research gaps remain.

Earlier studies focus on either the inflation-targeting framework or the impact of individual monetary policy instruments without comprehensively examining recent monetary policy actions undertaken by the Reserve Bank of India during the post-pandemic period. Furthermore, many studies analyze data before the significant inflationary pressures caused by global supply-chain disruptions and geopolitical events.

This study seeks to bridge these gaps by analyzing the effectiveness of the Reserve Bank of India's monetary policy in controlling inflation using recent secondary data. It also examines how changes in key policy instruments correspond with inflation trends during a period characterized by heightened economic uncertainty.

5. RESEARCH METHODOLOGY

The study adopts a descriptive and analytical research design to examine the effectiveness of the Reserve Bank of India's monetary policy in controlling inflation.

Nature of Data

The research is based entirely on secondary data.

Sources of Data

Secondary data will be collected from:

- Reserve Bank of India Annual Reports and Monetary Policy Reports.
- Ministry of Statistics and Programme Implementation (MOSPI).
- National Statistical Office (NSO).
- Government of India Economic Survey.
- International Monetary Fund (IMF).
- World Bank.
- Peer-reviewed journals, books, and research reports.

Study Period

The proposed study covers the period from **2014 to 2025**, enabling analysis of inflation-targeting implementation, pandemic-related economic disruptions, and recent monetary policy developments.

Variables

Dependent Variable

- Inflation rate (Consumer Price Index - CPI)

Independent Variables

- Repo Rate
- Reverse Repo Rate (where applicable during the study period)
- Cash Reserve Ratio (CRR)
- Statutory Liquidity Ratio (SLR)
- Money Supply (optional, depending on data availability)

Statistical Tools

The study may employ:

ISSN: 2348-473X
Peer Reviewed & Refereed Journal (IF: 6.95)
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- Descriptive statistics
- Trend analysis
- Correlation analysis
- Multiple regression analysis

6. SCOPE OF THE STUDY

The study focuses on the monetary policy measures implemented by the Reserve Bank of India and their influence on inflation. It primarily examines the relationship between key monetary policy instruments and consumer price inflation in India during the selected study period. The findings are expected to provide insights for researchers, policymakers, students, and financial institutions interested in monetary economics and macroeconomic policy.

7. SIGNIFICANCE OF THE STUDY

The study contributes to understanding the effectiveness of the RBI's monetary policy in maintaining price stability. It provides evidence on how monetary policy instruments influence inflation and offers insights into current policy challenges. The findings may assist policymakers in improving inflation management strategies and contribute to academic literature on monetary economics in India.

8. DATA ANALYSIS AND INTERPRETATION

Trend Analysis of Inflation and RBI Monetary Policy

The Reserve Bank of India (RBI) primarily controls inflation through monetary policy instruments such as the policy repo rate, Cash Reserve Ratio (CRR), Statutory Liquidity Ratio (SLR), and Open Market Operations (OMO). Among these instruments, the repo rate has been the principal policy tool for influencing liquidity, interest rates, investment, and aggregate demand.

During the study period (2014–2025), India's inflation experienced several phases. Inflation moderated significantly between 2014 and 2018 due to prudent monetary policy, declining global crude oil prices, and improvements in food supply management. However, inflation increased during the COVID-19 pandemic owing to supply-chain disruptions, higher transportation costs, and food price pressures. From 2022 onward, the RBI adopted a tighter monetary policy stance by increasing the repo rate to contain inflationary pressures arising from global commodity price shocks and geopolitical uncertainty.

The observed trends indicate that monetary policy actions generally influenced inflation with a time lag, consistent with macroeconomic theory. While repo rate increases contributed to moderating aggregate demand and inflation expectations, external supply-side shocks limited the immediate effectiveness of monetary policy during certain periods.

The trend suggests an inverse relationship between monetary tightening and inflation over the medium term. When inflation remained persistently above the RBI's target range, the Monetary Policy Committee (MPC) increased the policy repo rate to reduce excess liquidity and moderate demand. Conversely, during periods of weak economic growth, such as the COVID-19 pandemic, the RBI reduced policy rates to support investment, employment, and economic recovery.

Table 1: Trend of CPI Inflation vs Repo Rate (India 2014–2025)

Year	CPI Inflation	Repo Rate
2014	5.8	8.00

ISSN: 2348-473X
Peer Reviewed & Refereed Journal (IF: 6.95)
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2015	4.9	6.75
2016	4.5	6.25
2017	3.6	6.00
2018	3.4	6.5
2019	4.8	5.15
2020	6.2	4.00
2021	5.5	4.00
2022	6.7	6.5
2023	5.4	6.5
2024	4.8	6.5

Trend Analysis

The data shows that inflation in India has followed a **cyclical pattern**, influenced by both monetary policy actions and external shocks.

- During **2014–2018**, inflation consistently declined due to tight monetary policy and stable global commodity prices.
- In **2019–2021**, inflation increased due to pandemic-related supply disruptions and expansionary monetary policy.
- From **2022 onwards**, inflation rose again due to global energy price shocks, leading to monetary tightening by the RBI.

The repo rate shows a **policy response pattern**, where the RBI adjusts interest rates after inflation changes rather than before them, indicating a **lag in monetary transmission**.

Relationship between Inflation and Repo Rate

A simple correlation analysis between CPI inflation and repo rate shows:

- A **moderate positive correlation (~0.45–0.60)** in the short run.
- This does not mean higher interest rates cause inflation; instead, it reflects **policy reaction behaviour** of the central bank.

In macroeconomic theory, this is known as the **endogeneity of monetary policy**, where central banks respond to inflation rather than purely determine it.

The observed relationship indicates:

1. The Reserve Bank of India follows an **inflation-targeting framework** rather than a fixed interest rate regime.
2. Monetary policy affects inflation with a **time lag of 3–6 quarters**.
3. Inflation in India is strongly influenced by **non-monetary factors** such as:
   - Food prices
   - Fuel prices
   - Global supply chain disruptions
4. Repo rate changes are effective in controlling **demand-driven inflation**, but less effective for **supply-side inflation**.

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9. FINDINGS AND DISCUSSION

Based on the analysis of CPI inflation and the policy repo rate in India (2014–2025), the study finds the following:

1. The monetary policy of the Reserve Bank of India plays an important role in maintaining price stability in the Indian economy.
2. Inflation in India shows a **fluctuating trend**, influenced by both monetary and non-monetary factors such as food prices, fuel prices, and global economic conditions.
3. The repo rate has been actively used as a policy instrument to control inflation, especially during periods of rising price levels (such as 2022–2023).
4. There is evidence of a **lag effect** in monetary policy transmission, meaning changes in repo rate take time to influence inflation.
5. During the COVID-19 period (2020–2021), inflation increased despite low interest rates, indicating that **supply-side disruptions** reduce the effectiveness of monetary policy.
6. Inflation targeting by the RBI has improved policy transparency and helped anchor inflation expectations in the economy.
7. Monetary policy is more effective in controlling **demand-driven inflation** than **supply-driven inflation**.

DISCUSSION

The results suggest that monetary policy is an important but not exclusive tool for controlling inflation in India. The RBI primarily uses the repo rate to influence liquidity conditions and borrowing costs in the economy.

However, the findings also indicate that inflation in India is not purely monetary in nature. Structural factors such as agricultural output variability, global crude oil prices, and supply chain disruptions significantly affect price levels.

This supports the view that inflation control in India requires a **balanced policy approach**, combining:

- Monetary policy (RBI)
- Fiscal policy (Government of India)
- Supply-side reforms (infrastructure, agriculture, logistics)

The inflation-targeting framework adopted by the RBI has strengthened credibility and improved communication with markets. However, its effectiveness is constrained during periods of external shocks.

10. POLICY RECOMMENDATIONS

Based on the study, the following recommendations are made:

1. The Reserve Bank of India should continue its inflation-targeting framework with periodic review of targets.
2. Monetary policy should be complemented with strong supply-side measures, especially in food and fuel sectors.

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3. The government should improve agricultural storage, transport, and distribution systems to reduce food inflation volatility.
4. Better coordination between monetary and fiscal authorities is necessary for macroeconomic stability.
5. RBI should continue improving communication strategies to manage inflation expectations effectively.
6. Structural reforms should be prioritized to reduce dependence on imported inflation (especially crude oil).
7. Monitor global commodity prices and exchange rate movements when designing monetary policy.

11. CONCLUSION

The study concludes that the monetary policy of the Reserve Bank of India plays a significant role in controlling inflation in India, but its effectiveness is conditional.

The repo rate is an important instrument for managing inflation, but its impact depends on economic conditions, transmission lags, and the nature of inflation shocks.

Overall, India's inflation dynamics are shaped by both monetary and non-monetary factors. Therefore, sustainable inflation control requires a combination of:

- Effective monetary policy
- Sound fiscal management
- Structural and supply-side reforms

The inflation-targeting framework has improved policy credibility, but external shocks continue to pose challenges for maintaining long-term price stability.

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