ISSN – 2277-7911
Impact Factor – 5.958

YOUNG RESEARCHER
A Multidisciplinary Peer-Reviewed Refereed Research Journal

January - 2025
Vol. 14
Special Issue
No. 1

The Impact of Rupee Exchange Rate Fluctuations on Indian International Trade (2015–2023)

Kuldeep Niranjan Thorat

Corresponding Author -Kuldeep Niranjan Thorat

DOI - 10.5281/zenodo.14936697

Abstract:

India's economy has become deeply intertwined with global financial systems over the past few decades. The Indian Rupee (INR) has experienced significant fluctuations against major currencies, particularly the US Dollar (USD), influenced by domestic and international factors. This paper examines the key determinants of INR/USD exchange rate volatility and its effects on India's trade, investment flows, and economic stability. The study also evaluates the impact of global events, such as the COVID-19 pandemic, and proposes policy measures to enhance resilience against currency volatility.

Introduction:

The exchange rate plays a critical role in shaping a country's economic performance, particularly in emerging markets like India, where trade and investment flows are substantial contributors to GDP. The INR's value, predominantly measured against the USD due to its role in global trade, directly affects imports, exports, and capital flows. Since India liberalized its foreign exchange market in 1991, the Rupee has been subjected to market- driven fluctuations. While a floating exchange rate regime allows for flexibility, it also exposes the currency to external shocks, as witnessed during events such as the global financial crisis of 2008 and the COVID-19 pandemic.

This paper aims to analyze the factors contributing to exchange rate movements and their implications for India's international trade from 2015 to 2023. By understanding these dynamics, policymakers and businesses can develop strategies to mitigate risks associated with currency volatility.

Key Determinants of Exchange Rate Fluctuations:

Global Economic Conditions:

The US Federal Reserve's monetary policy significantly impacts the INR/USD exchange rate. When the Federal Reserve raises interest rates, it attracts global investors seeking higher yields on US bonds. This "risk-off" sentiment often leads to capital outflows from emerging markets like India, resulting in INR depreciation. Conversely, a dovish Fed stance tends to strengthen the Rupee by encouraging foreign capital inflows.

Commodity Prices:

India's dependence on oil and gold imports makes it vulnerable to commodity price fluctuations. Crude oil, in particular, accounts for a significant portion of India's import bill. A surge in oil prices increases the current account deficit (CAD) and exerts downward pressure on the INR. Similarly, rising gold prices lead to higher demand for USD, further weakening the Rupee.

Capital Flows:

Capital inflows, including Foreign Direct Investment (FDI) and Foreign Portfolio Investment (FPI), influence currency stability. While FDI provides long-term stability, FPI is often volatile and susceptible to global risk sentiments. Sudden reversals of FPI during market uncertainties, such as the COVID-19 outbreak, have exacerbated INR volatility.

Inflation and GDP Growth:

Higher inflation erodes the purchasing power of the Rupee, leading to depreciation. In contrast, robust GDP growth attracts foreign investments, strengthening the currency. India's relatively high inflation compared to advanced economies like the US has been a persistent challenge, contributing to a weaker INR over time.

Forex Reserves and Debt Levels:

India's foreign exchange reserves act as a buffer against currency shocks. However, high levels of external debt increase the burden of interest payments, especially during periods of Rupee depreciation. This dual dynamic underscores the importance of maintaining a prudent balance between reserves and debt obligations.

Impacts on International Trade:

Export Competitiveness:

A weaker Rupee makes Indian exports cheaper and more competitive globally, benefiting sectors like textiles, IT services, and pharmaceuticals. However, excessive volatility disrupts trade planning and contract negotiations, creating uncertainty for exporters.

Import Costs:

Depreciation raises the cost of imports, particularly for essential commodities like crude oil, machinery, and electronics. Higher import bills contribute to inflationary pressures and widen the fiscal deficit, posing challenges for policymakers.

Sectoral Implications:

Industries reliant on imported inputs face higher production costs during periods of Rupee depreciation. For example, the automobile and electronics sectors, which depend heavily on imported components, experience margin pressures, affecting profitability.

Case Study: The COVID-19 Pandemic:

The COVID-19 pandemic presented a unique stress test for the INR. In early 2020, global risk aversion led to capital outflows from emerging markets, causing the INR to depreciate significantly. India's CAD widened as oil prices rebounded from their initial slump, and foreign investments slowed amidst economic uncertainty.

However, sectors like pharmaceuticals and IT services capitalized on the weaker Rupee to expand their export footprints. Additionally, the Reserve Bank of India (RBI) intervened through monetary measures and dollar sales to stabilize the currency. Despite these efforts, the pandemic underscored the need for a diversified export base and reduced dependency on volatile capital flows.

Policy Recommendations:

Enhancing Export Competitiveness:

Diversifying export markets and promoting value-added goods can mitigate the risks associated with currency-specific dependencies. Initiatives like the Production Linked Incentive (PLI) scheme can boost

manufacturing competitiveness and reduce import reliance.

Strengthening Forex Reserves:

Maintaining adequate forex reserves enables timely interventions to stabilize the Rupee during periods of volatility. Policies to attract FDI and encourage remittances can contribute to reserve accumulation.

Managing Inflation and Fiscal Deficits:

Addressing structural inflation and maintaining fiscal discipline are critical for long-term currency stability. Initiatives to reduce oil dependency, such as transitioning to renewable energy sources, can mitigate the impact of commodity price fluctuations.

Stabilizing Capital Flows:

Developing policies that prioritize stable, long-term investments over volatile portfolio flows can reduce vulnerability to external shocks. Encouraging domestic capital formation and strengthening investor confidence through regulatory stability are essential.

Conclusion:

Exchange rate fluctuations have far-reaching implications for India's trade, investment, and economic stability. While a weaker Rupee can boost exports, its adverse effects on imports and inflation underscore the importance of proactive policy measures. By addressing structural issues, enhancing forex reserves, and promoting economic resilience, India can mitigate the adverse impacts of currency volatility and ensure sustainable growth. Future research should focus on predictive modeling of exchange rate movements to support evidence-based policymaking

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