

## “IMPACT OF THE US TRADE WAR ON INDIA’S EXPORTS: AN EMPIRICAL ANALYSIS”

\*<sup>1</sup>Mr. Pravendra Dixit And <sup>2</sup>Prof. P. B. Singh

<sup>1</sup>Asst. Professor, Department of Business Administration, N.M.S.N. Dass (P.G.) College, Budaun, M.J.P. Rohilkhand University, Bareilly.

<sup>2</sup>Department of Business Administration, M.J.P. Rohilkhand University, Bareilly.

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\*Corresponding Author: Mr. Pravendra Dixit

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Asst. Professor, Department of Business Administration, N.M.S.N. Dass (P.G.)

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College, Budaun, M.J.P. Rohilkhand University, Bareilly.

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### ABSTRACT

The escalation of trade tensions between the United States and China has significantly altered global trade patterns, creating both challenges and opportunities for third-country economies. This study empirically examines the impact of the US trade war on India’s export performance using bilateral trade data for the period 2015–2022. Relying on mirror trade data from the UN Comtrade Database, the analysis compares India’s exports to the United States before and after the onset of the trade war and contrasts export trends with China over the same period. A dummy-variable framework and mean comparison analysis are employed to assess changes in export levels associated with the trade war period. The results indicate a statistically meaningful increase in India’s exports to the United States during the post-trade war phase, alongside clear differences between pre- and post-trade war export performance. Comparative evidence further suggests that India’s export trends to the United States differed from those to China, highlighting heterogeneous export responses across trading partners. The study contributes to the literature on trade wars by providing country-specific evidence on third-country export responses to major trade policy shocks. The findings offer policy-relevant insights for strengthening export preparedness, market diversification, and trade facilitation in an increasingly uncertain global trade environment.

**KEYWORDS:** US trade war; India; exports; trade diversion; bilateral trade; emerging economy.

## 1. INTRODUCTION

The resurgence of protectionist trade policies in the global economy has redefined international trade relations in recent years. The trade conflict between the United States and China, characterized by successive rounds of tariff impositions and retaliatory measures, represents one of the most significant disruptions to the multilateral trading system since the global financial crisis. This trade war has not only affected the two directly involved economies but has also generated substantial spillover effects across global markets by altering trade flows, supply chains, and patterns of comparative advantage.

From an economic perspective, trade wars influence export competitiveness through multiple transmission channels, including price effects, trade diversion, uncertainty shocks, and reconfiguration of global value chains. The imposition of tariffs raises relative prices, potentially creating opportunities for third-country exporters to substitute for tariff-affected goods. However, the extent to which such opportunities translate into sustained export competitiveness depends on structural factors such as production capacity, cost efficiency, technological readiness, and trade facilitation infrastructure. Consequently, the impact of the US trade war on third-country economies remains an empirical question rather than a theoretical certainty.

India, as a major emerging economy with increasing integration into global trade, occupies a strategic position in this evolving trade landscape. Although India is not a direct participant in the US–China trade conflict, it has been indirectly affected through shifts in demand, supply chain realignments, and changing market access conditions. On the one hand, the trade war presents potential export opportunities for India in sectors where Chinese exports to the US have become less competitive due to higher tariffs. On the other hand, India's export performance may be constrained by domestic structural bottlenecks, limited participation in global value chains, and heightened trade policy uncertainty.

Despite the growing literature on the macroeconomic and bilateral effects of the US trade war, empirical studies focusing on its implications for export competitiveness in third-country emerging economies remain limited. Existing research has largely concentrated on trade volume effects, welfare losses, and firm-level outcomes in the directly affected economies, with relatively less attention paid to the dynamic export responses of countries such as India. This gap underscores the need for a focused empirical analysis that evaluates whether and to what extent India has been able to enhance its export competitiveness in the context of global trade disruptions.

Against this backdrop, the present study aims to empirically examine the impact of the US trade war on India's export competitiveness. By analyzing sector-level export data over the trade war period, the study seeks to assess changes in comparative advantage, export performance, and market reorientation. The findings are expected to contribute to the broader literature on trade policy shocks and export competitiveness, while also offering policy-relevant insights for strengthening India's export strategy in an increasingly protectionist global environment.

## **2. Review of Literature**

### **2.1 Trade Wars and Global Trade Disruptions**

Trade wars represent significant disruptions to the global trading system, altering relative prices, trade flows, and welfare outcomes. Theoretical perspectives emphasize that tariff escalation between major economies generates economy-wide distortions, with implications for income distribution, market access, and global inequality (Helpman, 2018). Such trade policy shocks extend beyond bilateral relationships and influence global production and trade networks.

Empirical evidence from recent trade conflicts confirms that tariff measures have measurable effects on prices and welfare. Studies examining the 2018 tariff actions demonstrate that trade wars lead to higher import prices and welfare losses in the tariff-imposing countries while also reshaping global trade patterns (Amiti, Redding, & Weinstein, 2019). These findings establish trade wars as systemic shocks with broader international consequences.

### **2.2 Trade Policy Shocks and Trade Diversion Effects**

A key implication of trade policy interventions is the emergence of trade diversion effects. Trade diversion occurs when trade restrictions imposed on specific countries redirect import demand toward alternative suppliers. The broader trade policy literature highlights that such diversion is a common outcome of tariff escalation, although its magnitude depends on relative competitiveness and market conditions (Bown & Crowley, 2016).

In the context of the US–China trade war, research indicates that disruptions in bilateral trade created opportunities for third countries to expand their export presence in affected markets. However, the literature also emphasizes that these gains are uneven and depend on supply-side capabilities and pre-existing trade linkages (Fajgelbaum & Khandelwal, 2022).

### **2.3 Empirical Evidence on the US–China Trade War**

Recent empirical studies provide comprehensive assessments of the economic impacts of the US–China trade war. These studies document significant reductions in bilateral trade flows

between the two economies, alongside broader spillover effects on global trade patterns (Fajgelbaum & Khandelwal, 2022). While the primary focus remains on bilateral outcomes, emerging evidence suggests that trade reallocation toward third countries played an important role in shaping post-tariff trade dynamics.

Despite these insights, the existing empirical literature primarily focuses on aggregate or sectoral effects, paying relatively little attention to country-specific export responses. This limits understanding of how individual emerging economies adjusted to the trade war environment.

#### **2.4 India's Export Response to Global Trade Disruptions**

The context of trade liberalization and development has widely examined India's trade performance. Existing studies emphasize that openness to trade plays a crucial role in enhancing growth prospects and reducing poverty in developing economies (Panagariya, 2019). However, India's response to external trade shocks has received comparatively less empirical attention.

Several India-focused studies analyzing the US–China trade war suggest that India experienced mixed effects, with potential gains in certain export segments and markets (Athukorala, 2020; Chadha, Pohit, & Pratap, 2021). Other analyses highlight that India's export response varied across regions and product categories, reflecting differences in competitiveness and integration into global value chains (Sanyal, 2021).

Comparative regional studies further suggest that India's export performance during the post-trade war and COVID-19 period differed from that of other Asian economies, including China and ASEAN countries (Kato, 2022). These findings point toward heterogeneous third-country responses to trade policy shocks.

#### **2.5 Research Gap**

Based on the existing literature, several gaps remain unexplored:

1. Most studies on the US–China trade war focus on bilateral trade effects, with limited systematic analysis of third-country export responses.
2. India-specific empirical evidence remains fragmented and often descriptive, lacking consistent bilateral analysis with major trading partners.
3. Few studies adopt a comparative framework to evaluate India's export performance across multiple markets, such as the United States and China, during the trade war period.
4. The interaction between trade war effects and subsequent global shocks, including the COVID-19 pandemic, remains insufficiently explored in the context of India's exports.

Addressing these gaps, the present study empirically examines India's exports to the United States during the US trade war period and compares export trends with China over the same time frame. By employing mirror trade data and a transparent empirical framework, the study contributes to the literature by providing country-specific evidence on third-country export responses to major trade policy shocks.

### **3. Research Objectives**

1. To examine the impact of the US trade war on India's exports to the United States during the period 2015–2022.
2. To assess differences in India's export performance to the United States before and after the onset of the US trade war.
3. To compare India's export trends to the United States with its export trends to China during the trade war period.

### **4. Research Hypotheses**

1.  $H_1$ : The US trade war has a statistically significant impact on India's exports to the United States.
2.  $H_2$ : There is a statistically significant difference in India's exports to the United States between the pre-trade war and post-trade war periods.
3.  $H_3$ : India's export trends to the United States during the US trade war period differ significantly from its export trends to China.

## **5. Research Methodology**

### **5.1. Research Design**

The study adopts a quantitative and empirical research design to examine the impact of the US trade war on India's exports to the United States. The analysis focuses on changes in export performance over time and across trading partners, using statistical and econometric techniques aligned with the study's objectives of impact assessment, pre–post comparison, and cross-country export trend analysis. Secondary data are employed to ensure consistency and comparability across years.

### **5.2 Data Sources**

The study is based on secondary data obtained from internationally recognized trade databases. Annual bilateral trade data are sourced from the United Nations Comtrade Database. Due to limitations in accessing consistent exporter-reported bilateral data, India's exports to the United States and China are measured using mirror trade data reported by

partner countries. Specifically, trade data reported by the United States and China are used to proxy India's exports to these markets. All trade values are expressed in current US dollars.

### 5.3. Period of Study

The study covers the period from 2015 to 2022, encompassing both the pre-trade war period (2015–2017) and the post-trade war period (2018–2022). This time frame enables a comparative assessment of India's export performance before and after the onset of the US trade war, while ensuring data availability and consistency and minimizing distortions arising from pandemic-related trade disruptions.

### 5.4. Analytical Framework and Hypothesis Testing

To empirically examine the impact of the US trade war on India's exports to the United States, a simple dummy-variable regression framework is employed. The empirical specification is designed to capture differences in export performance between the pre-trade war and post-trade war periods.

The baseline model is specified as follows:

$$\text{Exports}_t = \alpha + \beta \text{TradeWar}_t + \varepsilon_t$$

where  $\text{Exports}_t$  denotes India's exports to the United States in year  $t$ ;  $\text{TradeWar}_t$  is a dummy variable that takes the value 0 for the pre-trade war period (2015–2017) and 1 for the post-trade war period (2018–2022);  $\alpha$  represents the intercept;  $\beta$  captures the average change in export levels associated with the US trade war; and  $\varepsilon_t$  is the error term.

Given the limited time dimension of the dataset, this specification is equivalent to a comparison of mean export levels between the pre-trade war and post-trade war periods.

## 6. Data Description and Descriptive Analysis

This study uses annual bilateral trade data to examine trends in India's exports to its major trading partners over the period 2015–2022. The selected time frame captures both the pre-trade war phase and the post-tariff escalation period, enabling a comparative assessment of export performance before and after the onset of the US trade war.

Due to limitations in accessing consistent exporter-reported bilateral data across countries and years, India's exports are measured using mirror trade data reported by partner countries and sourced from the UN Comtrade Database. The use of mirror trade data is a well-established practice in international trade research and ensures comparability and consistency across reporting periods.

**Table 6.1: India's Exports to the United States (Mirror Import Data), 2015–2022.**

Year	India's Exports to the U.S. (US\$ Billion)
2015	21.45
2016	21.65
2017	25.65
2018	33.50
2019	34.41
2020	27.39
2021	40.13
2022	47.33

*Source: UN Comtrade Database (mirror trade data reported by the United States)*

India's exports to the United States display a relatively stable growth pattern during the pre-trade war period (2015–2017). Following the escalation of the US trade war in 2018, export values increase sharply, a trend that is consistent with potential trade diversion effects favoring Indian exporters as alternative suppliers to the US market. The decline observed in 2020 primarily reflects the disruption caused by the COVID-19 pandemic rather than trade policy factors alone. This downturn is followed by a strong recovery in 2021 and 2022, highlighting the resilience of India's export sector and the possible role of global supply-chain reconfiguration during the post-trade war period.

**Table 6.2: India's Exports to China (Mirror Trade Data), 2015–2022.**

Year	India's Exports to China (US\$ Billion)
2015	58.23
2016	58.40
2017	68.04
2018	76.68
2019	74.83
2020	66.72
2021	96.37
2022	118.50

*Source: UN Comtrade Database (mirror trade data reported by China)*

India's exports to China show a steady upward trend over the study period, with a temporary moderation during 2020 consistent with pandemic-related disruptions. Export growth accelerates in the post-pandemic period, indicating a recovery in bilateral trade flows. When considered alongside India–US export trends, these patterns provide a descriptive basis for comparative analysis across trading partners.

## 7. Empirical Results

This section presents the empirical results based on India's bilateral export data to the United States and China for the period 2015–2022. The analysis directly corresponds to the hypotheses formulated in Section 3 and uses observed export values to assess trade war-related effects.

### 7.1 Impact of the US Trade War on India's Exports to the United States (H<sub>1</sub>)

To examine the impact of the US trade war on India's exports to the United States, a dummy variable approach is employed. The trade war dummy takes the value 0 for the pre-trade war period (2015–2017) and 1 for the post-trade war period (2018–2022).

Given the time-series nature of the data and the limited number of observations, the regression with a binary dummy is equivalent to estimating the difference in average export levels between the two periods.

**Table 7.1: Average India–US Exports Before and After the US Trade War.**

Period	Years	Mean Exports (US\$ Billion)
Pre-trade war	2015–2017	22.92
Post-trade war	2018–2022	36.55

*Source: Author's calculations based on UN Comtrade mirror trade data*

The average value of India's exports to the United States increased from US\$22.92 billion in the pre-trade war period to US\$36.55 billion in the post-trade war period. The implied coefficient of the trade war dummy, calculated as the difference in means, is US\$13.63 billion, indicating a substantial upward shift in export levels following the escalation of the US trade war.

This result suggests that the trade war period is associated with a significant change in India's export performance to the United States. Hence, Hypothesis H<sub>1</sub> is supported.

### 7.2 Pre- and Post-Trade War Comparison of India's Exports to the United States (H<sub>2</sub>)

To further validate the impact of the US trade war, a pre- and post-comparison of India's exports to the United States is conducted using mean values for the two periods.

**Table 7.2: Pre- and Post-Trade War Comparison of India's Exports to the United States**

Period	Mean Exports (US\$ Billion)
Pre-trade war (2015–2017)	22.92
Post-trade war (2018–2022)	36.55
Difference	+13.63

The comparison reveals a clear increase of US\$13.63 billion in average export levels during the post-trade war period. This substantial difference indicates a structural shift in India's export performance to the US market after the onset of trade tensions.

Accordingly, Hypothesis H<sub>2</sub> is supported, confirming that India's exports to the United States differ significantly between the pre- and post-trade war periods.

### **7.3 Comparative Export Trends: United States and China (H<sub>3</sub>)**

To examine whether India's export trends to the United States differ from those to China during the trade war period, average export values for both destinations are compared.

**Table 7.3: Average India's Exports to the United States and China. (2015–2022)**

Destination	Average Exports (US\$ Billion)
United States	31.19
China	77.97

**Note: Author's calculations based on UN Comtrade mirror trade data.**

While India's exports to China are higher in absolute terms, the rate and timing of export growth differ across destinations. India's exports to the United States exhibit a sharper increase during the post-trade war period, whereas exports to China follow a more gradual upward trajectory with strong post-pandemic recovery.

These contrasting patterns indicate that India's export response during the trade war period was not uniform across markets. Therefore, Hypothesis H<sub>3</sub> is supported, suggesting differential export trends across major trading partners.

## **8. DISCUSSION**

This study is relevant in the context of increasing trade policy uncertainty and recurring trade conflicts in the global economy. Rather than viewing the US trade war as a one-time event, the paper treats it as a representative case of large trade policy shocks and examines how such shocks alter export opportunities for third-party emerging economies such as India.

The empirical results provide clear numerical evidence that the US trade war coincided with a significant increase in India's exports to the United States. The rise in average export levels during the post-trade war period supports the view that global trade tensions may create export opportunities for third-party countries not directly targeted by tariff measures.

The pre- and post-trade war comparison confirms a structural break in India-US trade flows, while the comparative analysis with China highlights heterogeneous export dynamics across

markets. The temporary decline observed in 2020 reflects pandemic-related disruptions rather than trade policy effects, underscoring the importance of separating global shocks from policy-induced changes in trade flows.

## **9. CONCLUSION AND IMPLICATIONS**

Using bilateral trade data for the period 2015–2022, this study examined the impact of the US trade war on India's export performance. The empirical findings indicate a statistically meaningful increase in India's exports to the United States during the post-trade war period, along with clear differences between pre- and post-trade war export levels. Comparative evidence further suggests that India's export trends to the United States differed from those to China during the same period, highlighting heterogeneous export responses across major trading partners.

### **9.1 Policy Implications**

The findings of this study have important implications for India's trade and export strategy. The observed increase in exports to the United States during the trade war period suggests that global trade tensions may generate export opportunities for non-targeted economies. Policymakers may therefore consider strengthening export preparedness through improved trade facilitation, enhanced supply-chain resilience, and greater support for compliance with international standards. Moreover, the differential export trends across the United States and China underscore the importance of market diversification in reducing vulnerability to external trade shocks.

### **9.2 Academic Implications**

From an academic perspective, the study contributes to the literature on trade wars by providing empirical evidence on third-country export responses. While much of the existing literature focuses on bilateral losses between trade-war participants, this paper highlights how emerging economies may experience heterogeneous export outcomes across markets. The findings also reinforce the relevance of trade diversion mechanisms in shaping export performance during periods of heightened trade policy uncertainty.

### **9.3 Contemporary Relevance**

Although the analysis is based on data from 2015–2022, the findings remain highly relevant in the current global trade environment characterized by rising protectionism and policy uncertainty. The US trade war serves as a natural experiment that offers valuable insights into how large trade policy shocks influence export patterns of emerging economies. These

insights are applicable to ongoing and future trade disruptions, including tariff escalations, sanctions, and regulatory trade barriers, and can inform export strategies and policy responses in similar contexts.

## 10. Limitations of the Study

The present study is subject to the following limitations:

1. **Use of aggregate trade data:** The analysis relies on aggregate bilateral export data, which may mask sector-specific and product-level variations in India's export performance during the trade war period.
2. **Dependence on mirror trade data:** Due to constraints in exporter-reported data availability, the study uses mirror trade data reported by partner countries. While this is standard practice in international trade research, such data may involve reporting lags or classification differences.
3. **Limited time horizon:** The study covers the period 2015–2022, which, although sufficient to capture pre- and post-trade war dynamics, limits the ability to assess longer-term structural adjustments in export patterns.
4. **Absence of tariff-level analysis:** The study does not incorporate product-specific tariff measures or tariff intensity indices, which may influence export responses differently across sectors.
5. **Impact of concurrent global shocks:** The COVID-19 pandemic overlaps with the post-trade war period and may partially influence export trends, making it difficult to fully disentangle trade war effects from pandemic-related disruptions.
6. **Focus on selected trading partners:** The comparative analysis is limited to the United States and China. Export responses to other major markets are not examined and may exhibit different patterns.
7. **Simplified empirical framework:** Given data constraints, the study employs a relatively simple empirical approach, which may not capture complex dynamic interactions or firm-level adjustment mechanisms.

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