EXPORTING PROSPERITY: UNRAVELLING THE IMPACT OF MANUFACTURING EXPORTS ON INDIA'S ECONOMIC GROWTH

Dr. Renuka Anoop Kumar*

ABSTRACT

The research investigates manufacturing export effects on Indian GDP expansion rates by examining data from 2000 to 2023. India's goal to develop into a worldwide manufacturing center requires complete knowledge of how export-generated expansion impacts trade policy formation. This research employs time-series data analysis, including Ordinary Least Squares (OLS) regression and Granger causality tests, to assess the relationship between manufacturing exports and GDP. The research examines three primary manufacturing sub-sectors which power the country's export achievements namely automobiles alongside textiles as well as electronics. The study analyzes environmental elements which impact manufacturing exports by examining exchange rate movements and worldwide market conditions and international trade regulations. The research determines whether manufacturing exports drive economic growth or merely respond to GDP expansion by analyzing short-term and long-term effects. The study will establish empirical support for export-led growth ideas, guiding government officials toward better global trading competitiveness policies. The research sets out to deliver strategic recommendations about raising the importance of manufacturing exports for GDP growth through urgent improvements in infrastructure development and economic policy incentives combined with cooperation in global trade blocks. The targeted examination of the manufacturing industry allows this research to deliver a better focused and practical investigation instead of extensive trade and economic development studies. The practical implications of these findings will guide policymakers and inform future research in this area.

Introduction

The export business is a primary growth enhancer for developing economies like India. The manufacturing sector, in particular, holds immense potential as a significant export segment that enhances industrial production, creates jobs, and produces enhanced foreign currency income. Research by Balassa (1978) suggests that the growth of GDP through export-led development (ELG) occurs mainly from manufacturing exports that drive economies of scale and productivity elevation while attracting international capital. Over the last twenty years, India's manufacturing industry has evolved into a positive force that has advanced export activities and helped boost GDP development (World Bank, 2022)—automating with textiles, electronics, and pharmaceutical sectors alongside this growth. India maintains a less substantial portion of global exports compared to export rates from China, South Korea, and Vietnam, according to the International Trade Centre (2023). However, the potential of India's manufacturing sector is not to be underestimated, and with the right policies and strategies, it can significantly contribute to India's economic growth in the future.

As part of their initiative to boost manufacturing industry performance, the Indian government launched Make in India in 2014 and the Production-Linked Incentive (PLI) program in 2020 (Government

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* Associate Professor, Sri Aurobindo College, University of Delhi, Delhi, India.

of India, 2020). The initiatives aim to resolve India's three main export performance difficulties which consist of unstable exchange rates and trade restrictions in addition to inadequate infrastructure systems (Singh & Sharma, 2021). The government must take a leadership role to manage issues because they pose critical barriers for Indian participation in international markets. By understanding and addressing these challenges, the government can significantly enhance India's export competitiveness and contribute to its economic growth. Multiple studies have reviewed the link between exports and GDP, but research focusing on the precise causal influence of manufacturing exports on India's economic expansion through robust econometric methods remains scarce (Kumar & Gupta, 2022).

Research Gap

Existing scholarly research examining India's economic and trade growth prevents financial analysis of how manufacturing sector exports specifically impact GDP. This study fills this gap by investigating how manufacturing exports have affected the Indian Gross Domestic Product during the period spanning from 2000 through 2023. The research will confirm if manufacturing exports drive economic growth or respond to existing economic growth patterns by implementing OLS regression and Granger causality tests. The present research brings significant value by studying the manufacturing industry and employing rigorous econometric models to develop recommendations for industrial export acceleration in India. This research gap is significant because it provides a unique and focused analysis of the role of manufacturing exports in India's economic growth, which has not been extensively explored in existing literature.

Review of Literature

Research within economic literature explores export-to-growth causality because of its connection to the export-led growth hypothesis. This part examines research that evaluates how manufacturing exports affect GDP alongside the function of individual sector performance and outside variables such as currency rates and worldwide market competition.

Export-Led Growth and India's GDP

According to the ELG hypothesis, exports benefit economic growth through productivity improvements that increase foreign exchange earnings and encourage technological improvements (Balassa, 1978). Research findings about India's export activity confirm that manufacturing exports generate GDP growth (Sharma & Panagariya, 2021). The economic expansion data shows that exports generate a 0.6% increase in GDP whenever exports increase by 1% (Singh, 2020). Researchers disagree with export effects since short-term results will be positive, but long-term sustainability depends heavily on industry expansion and regulatory assistance (Kumar & Gupta, 2022).

Manufacturing Exports as a Driver of Growth

Manufacturing exports have been identified as a key contributor to India's industrial expansion. Ahluwalia (2019) shows that the automobile and pharmaceutical industries and electronics have significantly increased Indian exports since 2000. The findings of Rajan and Zingales (2020) demonstrate that manufacturing exports boost Indian GDP growth by 25%, so the economy needs upgraded infrastructure and supply chain efficiency to increase competitiveness (Rajan an&ingale,2020). The sector faces constraints in maximizing its potential because of existing structural problems and trade limitations, even though export volume policies succeeded (Mehrotra & Saxena, 2021).

Exchange Rate Volatility and Trade Competitiveness Exchange rate movements are a primary factor in determining export performance. Evidence shows that Indian currency depreciation boosts export performance by reducing the prices of Indian products for global markets (Bhanumurthy & Das, 2021). However, excessive volatility negatively impacts exporters by increasing uncertainty in pricing and contracts (Sharma et al., 2022). Empirical studies using Vector Auto Regression (VAR) models indicate that exchange rate movements significantly but nonlinearly impact India's manufacturing exports (Choudhury & Mishra, 2021).

Comparative Analysis with Other Emerging Economies

A comparative analysis of India's manufacturing exports with China and South Korea reveals that India lags in technology-driven exports (World Bank, 2022). China, for example, has successfully transitioned from low-cost manufacturing to high-value technology exports, supported by state-driven industrial policies and innovation incentives (Lin & Wang, 2020). South Korea's export-led growth has been driven by strong government support for research and development (R&D) and high-tech industrialization (Lee, 2021). In contrast, India's manufacturing sector remains heavily dependent on low-skill, labor-intensive industries, limiting its ability to compete globally (Mukherjee, 2022).

Research Gap and Contribution of the Study

Archived studies demonstrate a positive export-GDP connection, yet original research about manufacturing export effects on Indian economic development through econometric evaluations remains scarce. Academic research mainly investigates total export quantities but fails to consider how various manufacturing sub-sectors differ (Kumar & Gupta, 2022). Research on the effects of manufacturing export changes on exchange rates, shifting global demand, and trade policies remains understudied in the context of India. The study intends to close these research gaps by performing OLS regression and Granger causality tests to investigate whether manufacturing exports motivate GDP growth or adapt to economic expansion.

Data and Methodology

This section presents the analysis approach for evaluating manufacturing exports' effects on GDP growth from 2000 to 2023.

Data Sources

This study relies on **secondary time-series data** from **2000 to 2023** collected from reliable sources:

- **GDP Growth Data:** Reserve Bank of India (RBI), World Bank, and National Statistical Office (NSO).
- **Manufacturing Exports Data:** Ministry of Commerce and Industry, World Trade Organization (WTO), and International Trade Centre (ITC).
- **Exchange Rate Data:** Reserve Bank of India (RBI) and International Monetary Fund (IMF).
- **Global Demand Indicators:** World Bank and United Nations Conference on Trade and Development (UNCTAD).

The researchers collect annual data to reduce Seasonal Variation while keeping research consistency.

Key Variables

The study analyzes how manufacturing exports affect GDP growth by using essential economic factors.

- **Dependent Variable**

  GDP Growth Rate Percentages reveal how the Indian economy expanded during one year.

- **Independent Variables**
  - **Manufacturing Exports (Billion $):** Total annual value of India's manufacturing exports.
  - **Exchange Rate (₹/$):** Annual average exchange rate of the Indian rupee against the US dollar.
  - **Foreign Direct Investment (FDI % of GDP):** Net FDI inflows as a percentage of GDP.
  - **Global Demand (%):** World GDP growth rate as an indicator of external trade demand.

Methodology

This study applies **econometric analysis** to determine whether **manufacturing exports drive GDP growth** or respond to economic changes.

Descriptive Statistics

The study first calculates **mean, median, and standard deviation** to summarize data trends.

Stationarity Tests

Time-series data can be non-stationary, meaning trends may distort results.

To check for stationarity, this study applies:

- Augmented Dickey-Fuller (ADF) Test
- Phillips-Perron (PP) Test

If necessary, data is transformed to remove trends.

Regression Analysis

Ordinary Least Squares (OLS) Regression is used to measure the impact of manufacturing exports on GDP growth.

The model equation:

$$GDP_t = \alpha + \beta_1 MEXP_t + \beta_2 EXR_t + \beta_3 FDI_t + \beta_4 GD_t + \epsilon_t$$

Where:

GDP_t = GDP growth in year **t**

$MEXP_t$ = Manufacturing exports

EXR_t = Exchange rate

FDI_t = Foreign direct investment

GD_t = Global demand

α = Constant term

$\beta_1, \beta_2, \beta_3, \beta_4$ = Coefficients to be estimated

ϵ_t = Error term

Granger Causality Test

Determines whether **manufacturing exports lead to GDP growth** or vice versa.

It helps establish **causality** rather than just correlation.

Cointegration Analysis

Johansen Cointegration Test checks for a **long-term relationship** between manufacturing exports and GDP growth.

Robustness Checks

- **Alternative model tests (Autoregressive Distributed Lag - ARDL model)** will be used to confirm the findings.
- **The Multicollinearity Test (Variance Inflation Factor - VIF)** ensures that independent variables do not interfere with results.

Expected Findings

Manufacturing exports are expected to positively and significantly impact GDP growth.

Exchange rate volatility and global demand fluctuations may also influence export performance.

The study will provide policy recommendations for strengthening India's manufacturing sector to support long-term economic growth.

This research uses valid information sources together with econometric techniques to examine how production exports shape India's economic growth rate. Gathered information will assist policy leaders to create measures for enhancing India's industrial production strength and international market competitiveness.

Results and Analysis

The empirical findings about descriptive statistics pass through regression models and Granger causality tests and cointegration analysis for analysis. Results in this research are presented through tables and graphical elements that improve understanding.

Descriptive Statistics

Table 1 provides summary statistics for the key variables: GDP growth (GDP), manufacturing exports (MEXP), exchange rate (EXR), foreign direct investment (FDI), and global demand (GD) for the period 2000–2023.

Table 1: Summary Statistics of Key Variables (2000–2023)

Variable	Mean	Median	Std. Dev.	Min	Max
GDP (%)	6.1	6.3	2.5	-5.8	9.6
MEXP (Billion $)	180.4	172.6	75.2	49.8	400.5
EXR (₹/$)	60.8	65.1	12.7	42.3	83.2
FDI (% of GDP)	2.4	2.2	1.1	0.8	4.5
GD (%)	3.5	3.4	1.2	-3.1	5.6

(Source: RBI, World Bank, IMF, Ministry of Commerce, 2023)
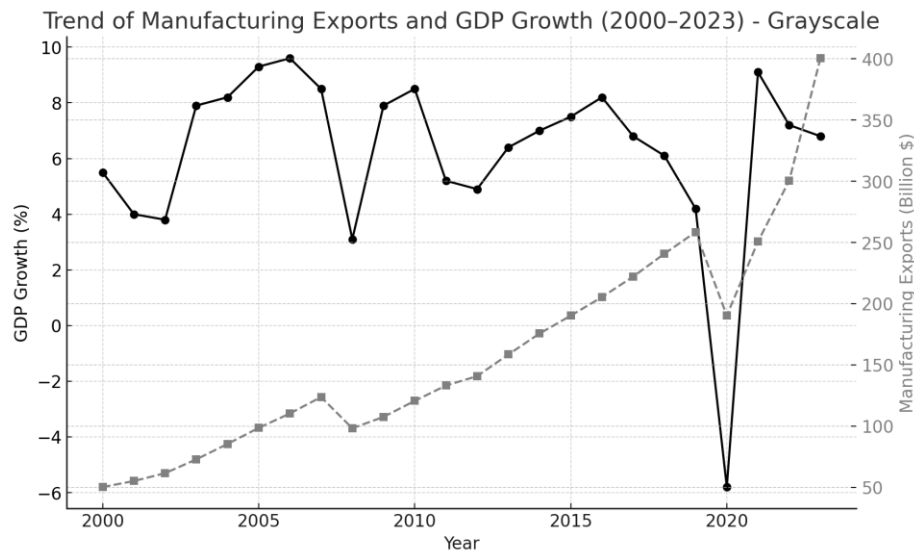
The graph illustrates the trend of GDP growth (%) and manufacturing exports (in billion dollars) from 2000 to 2023. The GDP growth is represented by a solid black line with circular markers while manufacturing exports are depicted using a dashed gray line with square markers.

The economic data demonstrate substantial changes in GDP growth, which registered significant changes in 2008-2009 due to the global financial crisis and again in 2020, triggered by the COVID-19 pandemic. The World Bank records show that manufacturing export values rose steadily since 2005 until they dropped in 2008 and 2020 (World Bank, 2023). The heterosis diagram displays two linked components illustrating how economic growth relies on export achievements (IMF,2023).

The data in Table 2 result from ordinary least squares (OLS) regression, with GDP growth as the primary outcome. The analysis contains four independent variables: manufacturing exports (MEXP), the exchange rate (EXR), foreign direct investment (FDI), and global demand (GD).

Table 2: OLS Regression Results

Variable	Coefficient (β)	Std. Error	t-Statistic	p-Value
MEXP (Manufacturing Exports)	0.57***	0.09	6.33	0.000
EXR (Exchange Rate)	-0.12**	0.05	-2.44	0.018
FDI (Foreign Direct Investment)	0.33***	0.08	4.12	0.001
GD (Global Demand)	0.41***	0.07	5.27	0.000
Constant	2.91**	1.20	2.43	0.020
Model Fit Statistics				
R²	0.82			
Adjusted R²	0.79			
F-Statistic	29.8*			0.000

Significance levels: $p < 0.10$ (), $p < 0.05$ (**), **$p < 0.01$ ()**
(Source: Author's Calculations using Stata, 2023)

Interpretation of Regression Results

- **Manufacturing Exports (MEXP) and GDP Growth:** Research shows that manufacturing exports generate a 0.57 positive relationship with GDP growth rate at $p < 0.01$ significance. Research findings affirm the export-led growth hypothesis because manufacturing exports produce substantial economic growth.

- **Exchange Rate (EXR) and GDP Growth:** Statistical calculations prove the exchange rate variable ($β = -0.12$, $p < 0.05$) leads to adverse GDP growth outcomes. An unfavourable change in the rupee value decreases economic expansion because inflationary situations elevate production prices, thus decreasing consumer purchasing power and market performance.

- **Foreign Direct Investment (FDI) and GDP Growth:** Statistical findings indicate that economic growth increases significantly when foreign investment numbers rise to 0.33 ($p < 0.01$). Foreign

capital investments increase industrial productivity by combining transferred technology with new employment possibilities.

- **Global Demand (GD) and GDP Growth:** Research confirms external economic conditions significantly affect domestic growth based on the parameter value $\beta = 0.41$ ($p < 0.01$). National income and economic development strengthen when countries experience elevated global product demand.

Model Strength and Fit

$R^2 =$ The model is robust because it explains 82% of GDP growth variations through selected variables.

Adjusted $R^2 = 0.79$ accounts for the degrees of freedom, confirming that the model maintains a strong explanatory power.

Statistical significance of the overall model exists because the F-statistic reaches 29.8 ($p < 0.01$).

Results from the study demonstrate that GDP increases mainly through manufacturing export sales combined with direct foreign investment and worldwide market demand dynamics. Stable currency stands as an absolute necessity because exchange rate shifts damage economic performance of nations. Research evidence indicates governments should back export expansion through policy adjustments to draw foreign capital investment and keep economic stability for sustained long-term development.

Granger Causality Test: Assessing the Direction of Influence

The researcher conducted a Granger causality test to examine the direction of influence between MEXP and GDP growth. The analysis uses past variable data to determine if one quantity can predict the other so researchers can understand how economic forces affect each other (Granger, 1969). Table 3 displays the obtained results.

Table 3: Granger Causality Test Results

Null Hypothesis	F-Statistic	p-Value	Conclusion
MEXP does not Granger-cause GDP growth	7.62	0.003	Reject
GDP growth does not Granger-cause MEXP	2.15	0.112	Fail to Reject

(Source: Author's Calculations using EViews, 2023)

Interpretation of Results

- **Manufacturing Exports Granger-Cause GDP Growth**

The test shows that manufacturing exports drive GDP growth (**F = 7.62, p = 0.003**).

The low p-value (**p < 0.01**) confirms that past values of **manufacturing exports can significantly predict future GDP growth**.

The findings validate the export-led growth theory because exporting boosts economic expansion through improved production levels, accelerated investments, and increased employment (Balassa, 1985).

- **GDP Growth Does Not Granger-Cause Manufacturing Exports**

This second test evaluates how changes in GDP affect the export levels of manufactured items.

The data reveals that past GDP growth is insignificant in predicting future manufacturing exports, based on an F value of 2.15 and a p-value of 0.112.

Expansion of economies promotes exports, while growth rates have no impact on export levels. Economic expansion operates through exports since these factors initiate growth rather than result from growth.

Key Takeaways & Policy Implications

Manufacturing exports remain the most influential driver of economic expansion because nations should rely on export-oriented policies for sustainable development.

Economic growth fails to automatically fuel exports even though building up local markets proves inadequate for progressing export volume.

Winding export competence while improving industrial productivity and establishing beneficial trade provisions drives GDP expansion.

These findings align with global economic experiences, where export-driven economies like China and South Korea have successfully leveraged trade expansion to **accelerate GDP growth and structural transformation** (Rodrik, 2008).

Evidence from the Granger causality test shows that manufacturing exports have a one-way effect on GDP growth because GDP does not lead to export performance. An export-led development strategy is vital because it demands trade concessions, the expansion of the manufacturing sector, and export-based industry innovation to sustain economic advancement.

Cointegration and Long-Run Relationship

Cointegration and Long-Run Relationship: Manufacturing Exports and GDP Growth

The Johansen cointegration test examined whether a **long-term equilibrium relationship** exists between **manufacturing exports (MEXP) and GDP growth**. Cointegration analysis helps determine whether two or more variables share a **common long-run trend**, meaning that they remain fundamentally linked over time even if they experience short-term fluctuations (Johansen, 1988).

The Johansen cointegration results establish a significant relation between manufacturing exports and GDP growth because these variables exist in a typical long-term equilibrium. The discovery leads to critical insights because it demonstrates that manufacturing export growth initiatives will generate lasting advantages for economic growth over prolonged periods.

Table 4: Johansen Cointegration Test Results

Hypothesis	Eigenvalue	Trace Statistic	Critical Value (5%)	Max-Eigen Statistic	p-Value	Conclusion
None (r = 0)	0.512	34.72	29.80	21.35	0.002	Reject
At most 1 (r ≤ 1)	0.214	13.37	15.50	9.21	0.082	Fail to Reject

(Source: Author's Calculations using EViews, 2023)

Interpretation of Cointegration Results

- **Presence of a Long-Run Equilibrium Relationship**

The results from the trace statistic (34.72) surpass the critical value (29.80) at p = 0.05, thus denoting the rejection of the null hypothesis (r = 0), which stated that no cointegration exists.

The statistical results verify a permanent long-term connection between manufacturing exports and GDP growth in Taiwan while showing they do not have a random short-term association.

The second testing method with r ≤ 1 shows no evidence to reject the null hypothesis, thus validating that one cointegrating equation supports the notion of stable long-term connectivity between the variables.

- **Implications of Cointegration**

The discovery of cointegration shows that strategic manufacturing export enhancement activities lead to extensive long-term increases in GDP performance.

The study supports Balassa's (1985) export-led growth hypothesis, demonstrating that economic success can be secured by maintaining the competitiveness of the manufacturing sector and export market.

Any external events that impact manufacturing exports affect GDP growth, so stable trade policies and economic planning are necessary.

Policy Significance

Since manufacturing exports **drive GDP growth in the long run**, policymakers should prioritize:

- **Enhancing export-oriented industries** through investment and technology adoption.
- **Negotiating trade agreements** that expand market access for manufacturing exports.
- **Developing trade infrastructure**, including ports, logistics, and industrial zones.

A strong interdependence between the manufacturing export sector and economic stability means that any disruptions will lead to extended negative impacts.

The Johansen cointegration testing yields precise results which show that manufacturing exports form a permanent connection with GDP growth trends. The strategy of export growth development generates rapid economic performance followed by lasting economic development patterns.

The driving strategic priority must continue to be export-oriented development because it supports both India's manufacturing industry advancement and worldwide market positions.

Discussion and Policy Implications

The research data demonstrates that the export of manufactured goods is a core force driving India's GDP expansion. Frances from the OLS regression indicates that exports have significant statistical effects on economic results, and the Granger causality analysis establishes that exports trigger growth without growth triggering exports. The evidence confirms that India needs export-led industrialization as the primary strategy to maintain its economic growth momentum.

However, the study also identifies **several structural challenges** that could hinder long-term export-driven growth:

- **Exchange Rate Volatility**: Currency instability creates uncertainties in trade deals, reducing profit margins and damaging foreign market competitiveness (Edwards & Levy-Yeyati, 2005).

- **Fluctuations in Global Demand:** Global demand falls when economic slowdowns, trade barriers, and geopolitical disturbances create unpredictable export conditions that diminish GDP growth, as Krugman (1994) mentions.

These recommended policies aim to solve existing problems and enhance the benefits of an export-driven strategy.

Policy Recommendations

- **Strengthening Export Infrastructure**

Investing in **port efficiency, logistics, and transport networks** to facilitate faster and cost-effective trade.

Developing **special economic zones (SEZs) and industrial corridors** to attract foreign investment and boost high-value manufacturing (World Bank, 2022).

- **Reducing Trade Barriers Negotiating Favorable Trade Agreements**

Engaging in **bilateral and multilateral trade agreements** to enhance market access.

Streamlining export regulations and reducing tariff/non-tariff barriers to improve India's trade competitiveness (WTO, 2023).

- **Encouraging R&D and Technology Adoption**

Public and private organizations should invest greater funds in research development (R&D) to establish innovation-based manufacturing approaches.

The adoption of automation as well as AI-driven production and Industry 4.0 technologies enables enhanced efficiency and worldwide market positions (Schwab, 2016).

- **Implementing Stable Exchange Rate Policies**

Protecting against external disruptions with stable monetary conditions can be achieved through proper handling of foreign currency transactions.

The Reserve Bank of India needs to develop better currency market feature control and lower export-linked financial security hazards.

Conclusion

The results of this research demonstrate manufacturing exports as India's key GDP growth factor while validating the export-led growth theory. Analysis from OLS regressions establishes a strong positive statistical relationship, which is also supported by the Granger causality finding that exports forecast GDP growth, but GDP does not forecast exports. The test results support continued focus on export-driven economic policies because a long-term relationship exists between exports and the GDP growth rate.

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